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2021

Graduate Catalog

Georgia Southern University

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Georgia Southern University



2021-2022 Graduate Catalog

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EENG Electrical Engineering	346	MATH Mathematics	421
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EPID Epidemiology	362	MKTG Marketing	448
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Georgia Southern University

Georgia Southern University is the state's largest and most comprehensive center of higher education south of Atlanta. With 141 degree programs at the bachelor's, master's and doctoral levels, Georgia Southern has been designated a public Carnegie Doctoral/R2 institution and serves over 26,054 students from all 50 states, Washington D.C., and Puerto Rico as well as 102 nations. With three vibrant campuses — the Statesboro Campus, the Armstrong Campus in Savannah and the Liberty Campus in Hinesville — Georgia Southern offers an attractive campus environment that encourages learning, discovery and personal growth. Georgia Southern's nationally accredited academic programs prepare diverse scholars for leadership and service as world citizens. A unit of the University System of Georgia, the University boasts 200-plus student organizations, outstanding Division I athletics, and state-of-the-art residence halls and campus facilities.

Since 1906, the University's hallmark has been a culture of engagement that bridges theory with practice, extends the learning environment beyond the classroom, and promotes student growth and life success. Central to the University's mission is the faculty's dedication to excellence in teaching and the development of a fertile learning environment exemplified by a free exchange of ideas, high academic expectations, and individual responsibility for academic achievement. Faculty, staff, and students embrace core values expressed through integrity, civility, kindness, collaboration, and a commitment to lifelong learning, wellness, and social responsibility.

At a Glance

From www.georgiasouthern.edu/about (<http://www.georgiasouthern.edu/about/>)

- Georgia Southern University ranked number one in “The Best Schools for Military Students 2019” by *Best for Vets Colleges*
- Named “Military-Friendly” Gold school for the seventh year in a row in 2018 by Victory Media, publisher of *G.I. Jobs*, *STEM Jobs* and *Military Spouse* magazines
- Georgia Southern University has been included on the prestigious “2018 Green Ribbon Schools” list by the U.S. Department of Education
- For the eighth year in a row, Georgia Southern University was named one of the nation’s top eco-friendly campuses in *The Princeton Review’s Guide to 399 Green Colleges: 2018 Edition*
- The Allen E. Paulson College of Engineering and Computing is home to the first undergraduate Manufacturing Engineering program in the state of Georgia, one of only 20 such programs nationwide.
- The Allen E. Paulson College of Engineering and Computing ranked third in “Most Affordable Colleges for a Master’s in Computer Science 2018” by *OnlineU*
- Waters College of Health Professions is ranked number one in “20 Most Affordable Online BSN Degrees” by *College Choice*
- Waters College of Health Professions ranked number two in the “10 Most Affordable Doctorate in Nurse Practitioner Online 2018” by *Grad School Hub*.
- Waters College of Health Professions is ranked number two in the “2018 Top Online Schools for Exercise Science” by *The College Affordability Guide*
- Waters College of Health Professions is ranked number two for the Master of Science in Kinesiology with an emphasis in Coaching Education among “15 Best Online Master’s in Coaching Education 2018” by *Sports Management Degree Hub*
- Georgia Southern’s Jiann-Ping Hsu College of Public Health was the first such facility in the University System of Georgia and is one of only 48 in the country to be accredited by the Council on Education for Public Health.

Strategic Pillars

The University Strategic Plan goals, objectives and actions are designed around five structural themes—our Strategic Pillars:

Strategic Pillar 1: Student Success

Strategic Pillar 2: Teaching and Research

Strategic Pillar 3: Inclusive Excellence

Strategic Pillar 4: Operational Efficiency, Effectiveness and Sustainability

Strategic Pillar 5: Community Engagement

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Administrative Structure

KYLE MARRERO, B.M., M.M, D.M.A.	President
TRIP C. ADDISON, B.S., M.B.A.	Vice President for University Advancement
ASHLEA ANDERSON, B.S., M.B.A.	Interim Chief Information Officer
ANNALEE ASHLEY, B.B.A., M.B.A.	Chief of Staff & External Affairs
JARED BENKO, B.S., M.P.A.	Athletic Director
MAURA C. COPELAND, JD	Executive Counsel
JOHN LESTER, B.S., M.P.A., D.P.A.	Vice President for University Communications & Marketing
SCOT LINGRELL, B.A., M.A., Ph.D.	Vice President for Enrollment Management
SHAY DAVIS LITTLE, B.S., M.S., Ph.D.	Vice President for Student Affairs
CARL L. REIBER, B.S., M.S., Ph.D.	Provost and Vice President for Academic Affairs
RON STALNAKER, M.B.A.	Interim Vice President for Business and Finance
TAJUAN R. WILSON, M.P.A., Ed.D.	Associate Vice President for Inclusive Excellence and Chief Diversity Officer
ALLEN C. AMASON, B.B.A., Ph.D.	Dean, Parker College of Business
LISA R. CARMICHAEL, B.A., M.A., Ph.D.	Dean, University Libraries
MOHAMMAD S. DAVOUD, B.S., M.S., Ph.D.	Dean, Allen E. Paulson College of Engineering and Computing
STEVEN ENGEL, Ph.D.	Dean, Honors College
DELANA GAJDOSIK-NIVENS, B.S., Ph.D.	Dean, College of Science and Mathematics
BARRY JOYNER, B.S., M.Ed., Ph.D.	Dean, Waters College of Health Professions
JOHN R. KRAFT, B.S., Ph.D.	Interim Dean, College of Arts and Humanities
RYAN SCHROEDER, B.A., M.A., Ph.D.	Dean, College of Behavioral and Social Sciences
SHARON SUBREENDUTH, B.S., M.A.E., Ph.D.	Dean, College of Education
STUART TEDDERS, B.S., M.S., Ph.D.	Dean, Jiann-Ping Hsu College of Public Health
ASHLEY WALKER, CHES, Ph.D.	Dean, Jack N. Averitt College of Graduate Studies
AILEEN DOWELL, M.Ed., Ph.D.	Dean of Students

Archived Catalogs

2019-2020 Undergraduate and Graduate Catalogs (<https://catalog.georgiasouthern.edu/archive/2019-2020/>)

2018-2019 Undergraduate and Graduate Catalogs (<https://catalog.georgiasouthern.edu/archive/2018-2019/>)

2017-2018 Undergraduate and Graduate Catalogs (<https://catalog.georgiasouthern.edu/archive/2017-2018/>)

2016-2017 Undergraduate and Graduate Catalogs (<https://catalog.georgiasouthern.edu/archive/2016-2017/>)
 2015-2016 Undergraduate and Graduate Catalogs (<https://catalog.georgiasouthern.edu/archive/2015-2016/>)

**Note: To access prior archived Undergraduate and Graduate Catalogs, please visit the Office of the Registrar's website at <http://em.georgiasouthern.edu/registrar/resources/catalogs/>.*

Campus Directory and Map

Campus Directory

For the most current campus directory information, go to <https://directory.georgiasouthern.edu/> or contact The Welcome Center at 912-GSU-INFO (912-478-4636).

Campus Map and Legend

For the latest, up-to-date campus map and legend information, please visit our web site at <https://www.georgiasouthern.edu/map/>.

College Structure

The academic credit programs of the University are administered by ten colleges: the College of Arts and Humanities, the College of Behavioral and Social Sciences, the Parker College of Business, the College of Education, the Waters College of Health Professions, the Allen E. Paulson College of Engineering and Computing, the Jiann-Ping Hsu College of Public Health, the College of Science and Mathematics, the Honors College, and the Jack N. Averitt College of Graduate Studies. Except for the Honors College and the College of Graduate Studies, each of these is subdivided into schools or departments. A dean directs each college, a director or chair each school, and a chair each department. The following organizational structure provides for the degrees, fields of study, and courses set out in this catalog.

I. College of Arts and Humanities	Dr. John Kraft, Interim Dean
Betty Foy Sanders Department of Art	Mr. Jeff Garland, Chair
Department of Communication Arts	Dr. Pamela Bourland-Davis, Chair
Department of World Languages and Cultures	Dr. Eric J. Kartchner, Chair
Department of History	Dr. Carol Engelhardt Herring, Chair
Department of Literature	Dr. Beth Howells, Chair
Fred and Dinah Gretsch School of Music	Dr. Steven Harper, Chair
Department of Philosophy and Religious Studies	Dr. Karin Fry, Chair
Department of Writing and Linguistics	Dr. Russell Willerton, Chair
II. College of Behavioral Health and Social Sciences	Dr. Ryan Schroeder, Dean
Department of Criminal Justice and Criminology	Dr. Adam M. Bossler, Chair
Department of Political Science and International Studies	Dr. Barry Balleck, Chair
Department of Public and Nonprofit Studies	Dr. Trent Davis, Chair
Department of Psychology	Dr. Ty Boyer, Chair
Department of Sociology and Anthropology	Dr. Ted Brimeyer, Chair

School of Human Ecology	Dr. Beth Myers, Chair
III. Parker College of Business	Dr. Allen C. Amason, Dean
School of Accountancy	Dr. Chuck Harter, Director
Department of Economics	Dr. Yassaman Saadatmand, Chair
Department of Finance	Dr. Joseph S. Ruhland, Chair
Department of Enterprise Systems & Analytics	Dr. Yoris Au, Chair
Department of Logistics and Supply Chain Management	Dr. Gerard Burke, Chair
Department of Management	Dr. Steven D. Charlier, Chair
Department of Marketing	Dr. Michael L. Thomas, Chair
IV. College of Education	Dr. Sharon Subreenduth, Dean
Department of Curriculum, Foundations, and Reading	Dr. Kent Rittschof, Chair
Department of Elementary and Special Education	Dr. Yasar Bodur, Chair
Department of Leadership, Technology, and Human Development	Dr. Beth Durodoye, Chair
Department of Middle Grades and Secondary Education	Dr. Amelia Adkins, Chair
V. Allen E. Paulson College of Engineering and Computing	Dr. Mohammad Davoud, Dean
Department of Civil Engineering and Construction Management	Dr. David William Scott, Chair
Department of Computer Science	Dr. Gursimran Singh Walia, Chair
Department of Electrical and Computer Engineering	Dr. Youakim Kalaani, Chair
Department of Information Technology	Dr. Yiming Ji, Chair
Department of Manufacturing Engineering	Dr. Daniel J. Cox, Chair
Department of Mechanical Engineering	Dr. Brian Vlcek, Chair
VI. Waters College of Health Professions	Dr. Barry Joyner, Dean
Department of Diagnostic and Therapeutic Sciences	Dr. Laurie Adams, Interim Chair
Department of Rehabilitation Sciences	Dr. Walter L. Jenkins, Chair
Department of Health Sciences and Kinesiology	Dr. John Dobson, Interim Chair
School of Nursing	Dr. Melissa Garno, Interim Chair
VII. Jiann-Ping Hsu College of Public Health	Dr. Stuart Tedders, Dean
Department of Biostatistics, Epidemiology and Environmental Health Sciences	Dr. Hami Samawi, Interim Chair
Department of Health Policy and Community Health	Dr. Gulzar Shah, Chair
VIII. College of Science and Mathematics	Dr. Delana Nivens, Dean
Department of Biology	Dr. Stephen P. Vives, Chair
Department of Chemistry and Biochemistry	Dr. Will Lynch, Chair
Department of Geology and Geography	Dr. Jacque Kelly, Interim Chair
Department of Mathematical Sciences	Dr. Sabrina Hessinger, Interim Chair
Department of Military Science	Major Brian A. Montgomery, Chair

Department of Physics and Astronomy	Dr. Clayton Heller, Chair
IX. Honors College	Dr. Steven Engel, Dean
X. Jack N. Averitt College of Graduate Studies	Dr. Ashley Walker Colquitt, Dean

Directory Information

Georgia Southern has defined Directory Information to include the student's name, affirmation of whether the student is currently enrolled, post office box, local telephone number, classification (freshman, sophomore, junior, senior, or graduate student), employment title and contact information, major, participation in activities, weight and height of members of athletic teams, dates of attendance, degrees and awards received, thesis/dissertation title and faculty mentor, photograph, and most recent educational institution attended. This information is considered public information and will be released to those requesting such information unless the student has specifically requested that the information in this category be restricted. Students who wish to prohibit the release of Directory Information may present a written request to the Registrar and such information will not be released; however, requests that Directory Information be withheld from a written publication must be received in sufficient time to prevent delay in processing that publication.

Annual Notice of Privacy Rights

Georgia Southern is subject to the Family Educational Rights and Privacy Act of 1974 (FERPA; USC 1232g) which is designed to protect the student's rights with regard to educational records maintained by the institution. Under this Act, a student has the following rights:

1. The right to inspect and review education records maintained by this institution that pertain to the student within 45 days after the day the institution receives a request for access. A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect.;
2. The right to request the amendment of the student's education records that the student believes are inaccurate, misleading or a violation of privacy or other rights. A student who wishes to ask the institution to amend a record should write to the Office of the Registrar, clearly identifying the part(s) of the record the student wants changed, and specifying why the information should be changed.;
3. The right to provide written consent before the institution discloses personally identifiable information (PII) from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

Georgia Southern University discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official typically includes a person employed by the institution in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); or a student serving on an official committee, such as a disciplinary or grievance committee. A school official also may include a volunteer or contractor outside of the institution who performs an institutional service or function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of PII from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing his or her tasks. Clinical preceptors/supervisors will be considered school officials when they are supervising a student's clinical education. A school official typically has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the institution. Upon request, the

school also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the institution to comply with the requirements of FERPA. The name and address of the office that administers FERPA are:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202

General and Academic Information

The University is organized on the semester system with each of the two semesters (Fall and Spring) in the regular session extending over a period of approximately 15 weeks. The Summer semester extends over a period of approximately 9 weeks. Critical dates associated with the annual academic cycle are specified in the university academic calendar (<http://em.georgiasouthern.edu/registrar/resources/calendars/.html>). Consecutive fall and spring semesters constitute an academic year.

Undergraduate Resources

- Programs and Requirements (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/>)
 - Academic Advisement (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/advisement/>)
 - Accelerated Bachelor's to Master's (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/accelerated-bachelors-masters/>)
 - Co-op and Internship Program (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/co-op-internship-program/>)
 - Core Curriculum Course Requirements (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/core-curriculum-course-requirements/>)
 - Core Curriculum Course Requirements - Clinical Health (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/clinical-health-core-curriculum-course-requirements/>)
 - Educational Opportunity Programs (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/educational-opportunity-programs/>)
 - First Year Seminar (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/first-year-seminar/>)
 - Graduation Requirements (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/graduation-requirements/>)
 - Honors College (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/university-honors-program/>)
 - Learning Support Program (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/learning-skills-course/>)
 - Office of Global Engagement (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/office-global-engagement/>)
 - Office of International Student Admissions and Programs (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/>)

- programs-requirements/office-international-student-admissions-programs/)
- Other Degree Requirements (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/other-degree-requirements/>)
- Requirements for All Degrees (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/programs-requirements/requirements-all-degrees/>)
- Undergraduate Program Definitions (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/undergraduate-program-definitions/>)
- Undergraduate Policies and Procedures (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/>)
 - Academic Alerts (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/early-alert-midterm-grades/>)
 - Academic Intervention Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/academic-intervention-policy/>)
 - Academic Renewal Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/academic-renewal-policy/>)
 - Academic Standing Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/academic-standing-policy/>)
 - Classification (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/classification/>)
 - Consolidation GPA Renewal Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/consolidation-gpa-renewal-policy/>)
 - Course Load (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/course-load/>)
 - Dean's and President's Lists (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/deans-list/>)
 - Employment Programs (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/employment-programs/>)
 - Graduate Credit for Seniors (Senior Privilege) (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/graduate-credit-seniors-senior-privilege/>)
 - Limited Grade Forgiveness Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/limited-grade-forgiveness/>)
 - Policy for Limiting Individual Course Withdrawals (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/policy-limiting-individual-course-withdrawals/>)
 - Registration Time Tickets and RANs (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/registration-time-tickets-rans/>)
 - Scholarship Programs (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/scholarship-programs/>)
 - Transient Students (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/transient-students/>)
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- Continuous Enrollment Requirements (p. 33)
- Correspondence Study (p. 34)
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History of Georgia Southern University

On Dec. 1, 1906, a delegation of Statesboro representatives traveled to the DeSoto Hilton in Savannah, where they won the bid to establish a school of higher education in Statesboro.

When First District Agricultural & Mechanical School's inaugural academic year began in 1908, few could have foreseen a major American university growing out of four faculty members and 15 students in just a little more than one lifetime.

Now in its second century of service, Georgia Southern has close to 27,000 students, more than 2,000 faculty and staff, 140 programs of study at the bachelor's, master's and doctoral levels, and three vibrant campuses in Statesboro, Savannah and Hinesville.

Statesboro Campus

The Statesboro Campus was founded in 1906 as a school for teaching modern agricultural production techniques and homemaking skills to rural school children. The First District A&M School began within two decades to shift its emphasis to meet the growing need for teachers within the state. Its name and mission were changed in 1924 to Georgia Normal School as a training ground for educators, though it continued to accept

Graduate Resources

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 - Academic Common Market - Graduate (p. 32)
 - Academic Intervention Policy (p. 32)
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“preparatory” or high school students. Five years later in 1929, full-fledged senior college status was granted as South Georgia Teachers College.

Ensuing decades saw additional name and mission changes: to Georgia Teachers College in 1939 and Georgia Southern College in 1959.

Continued program and physical expansion, including one seven-year stretch, 1984-91 in which enrollment doubled from just over 6,000 to more than 12,000 students, led to a final transformation in 1990 – to Georgia Southern University.

Armstrong Campus and Liberty Campus

In 1935, Savannah Mayor Thomas Gamble founded the Armstrong Campus — then known as Armstrong Junior College — in order to help stimulate Savannah’s economy and advance opportunities for local youth who could not afford to attend college away from home. The school began with 175 students, and was located in the historic Armstrong House on Bull Street at the northern end of Forsyth Park. In 1966, after receiving four-year status and a 250-acre donation from The Mills B. Lane Foundation and Donald Livingston, Armstrong State College moved to its current location on Abercorn Extension in Savannah’s southside.

Throughout the next 30 years of growth, Armstrong added graduate programs in business and education, and became a Regional Health Professions Education Center. The institution’s growth culminated in 1996 with university status and a new name: Armstrong Atlantic State University. Just two years later, Armstrong collaborated with Georgia Southern and other USG institutions to create the Liberty Center in Hinesville in order to offer degree programs to the active duty and veteran military and their families in the area. Liberty County is the home of Fort Stewart, the largest military base east of the Mississippi.

Georgia Southern University Now

In 2018, Armstrong State University and Georgia Southern University consolidated, creating an institution that retained the Georgia Southern University name. The institution now encompasses nine colleges on three campuses: the Statesboro Campus, the Armstrong Campus in Savannah and the Liberty Campus in Hinesville.

Just as in the days of First District A&M and Armstrong Junior College, Georgia Southern University eagerly pursues new avenues to meet the challenges of a changing world.

The growing demand for online learning has brought online bachelor’s degrees in business, nursing, and information technology. Master’s programs are offered online in nursing, business, accounting, economics, computer science, coaching, kinesiology, and a broad choice of education fields. A doctoral program in nursing is also available.

Athletic Excellence

Georgia Southern’s athletics programs have a long and storied history, rich with tradition born of hard work and success. The University has not only produced conference and national champions, but has parlayed private support into significantly enhanced facilities — crucial to the recruitment and retention of top athletes.

Intercollegiate athletic success — including six FCS (I-AA) National Championships in football — has had a powerfully positive effect on the University’s public persona and pride of faculty, staff and students. All sports compete at the NCAA’s highest level with football, formerly FCS, joining the FBS ranks in fall 2014.

A Regional Powerhouse

Georgia Southern is now the state’s largest and most comprehensive university south of I-20 and is classified as a Doctoral/Research University by the Carnegie Foundation for the Advancement of Teaching. Emphasis on serving returning veterans has earned the University a “military-friendly”

designation by Victory Media, publisher of *G.I. Jobs*, *STEM Jobs* and *Military Spouse* magazines. Other accolades include *Kiplinger’s* “Top 100 Best Value,” and *Forbes* magazine named the University among America’s Best Midsize Employers.

It is an exciting time to be a part of Eagle Nation! We are forging our institution on the foundation of two dynamic, historic schools of higher learning. We are focused on student success. We are focused on hands-on learning. We are focused on close connections with faculty and students, and we are here because we want to make an impact on our communities, our region and our state.

How to Use This Catalog

The Georgia Southern University General Catalog is an information book and reference guide dealing with different aspects of the University - its policies, facilities, degree programs, course offerings, services, and faculty.

The statements set forth in this Catalog are for information purposes only and should not be construed as the basis of a contract between the students and this institution.

While the provisions of this Catalog will ordinarily be applied as stated, Georgia Southern University reserves the right to change any provision listed herein, including but not limited to academic requirements for graduation, without actual notice to individual students. Every effort will be made to keep students advised of such changes. Information on changes will be available in the Office of the Registrar. Ultimately, each student is responsible for keeping himself or herself apprised of current graduation requirements in his or her particular degree program. While academic advisors should be consulted regularly, students are responsible for the completion of their chosen degree programs.

If you have suggestions for improving this Catalog, please contact us at Email: courseleaf@georgiasouthern.edu

Intercollegiate Athletics

Intercollegiate athletics provide an opportunity for highly-skilled student-athletes to compete regionally and nationally at the NCAA Division I level. These activities are conducted under the control of the Georgia Southern University Athletics Committee and within the rules and regulations of the National Collegiate Athletic Association and the Sun Belt Conference. Intercollegiate athletics are an integral part of the total college experience and, as such, Georgia Southern sponsors programs for men in football, baseball, basketball, golf, soccer and tennis, and for women in basketball, volleyball, swimming and diving, softball, soccer, tennis, rifle, golf, cross-country, and indoor/outdoor track.

Georgia Southern student-athletes and teams have enjoyed national success as evidenced by six NCAA Football Championship Subdivision titles in addition to NCAA Tournament and NCAA Championship participation in men’s and women’s basketball, baseball, men’s golf, women’s soccer, softball, women’s tennis, outdoor track and volleyball. Georgia Southern University moved to the Football Bowl Subdivision (FBS) in 2014, captured the Sun Belt Conference championship in 2014 and has won two bowl games since 2015 - the GoDaddy Bowl (2015) and the Camellia Bowl (2018). Georgia Southern joined the Sun Belt Conference prior to the 2014-15 season and all 17 varsity programs compete in the league with the exception of women’s swimming and diving (Coastal Collegiate Sports Association) and women’s rifle (Southern Conference).

Outreach Facilities on the Georgia Southern Campus

Botanic Garden at Georgia Southern University

Centered on an early 20th-century farmstead near the southeast end of campus, the Garden celebrates the nature and culture of the southeastern coastal plain. Eleven acres feature native and heritage plants, including 270 taxa and 20 of the state's protected plants. The Garden offers woodland trails, wetlands, landscaped gardens, a native azalea collection, a vegetable garden, Rural Life Museum, the Whelchel Camellia Garden, and more. As a research and educational resource for faculty and students, the Garden provides undergraduate and graduate internships and hands-on study opportunities. Workshops, tours, school field trips, special events, and plant sales are some of the Garden's public outreach programs. The Garden is also available for rentals such as photography sessions, weddings, and receptions. Grounds are open 9:30 a.m. to dusk Monday through Friday and 1 p.m. until 4 p.m. on Sunday. Buildings are open Monday through Friday, 9:30 a.m. to 5:30 p.m., and Sunday, 1 p.m. to 4 p.m. For more information call the Garden office at (912) 478-1149 or visit the website at academics.georgiasouthern.edu/garden (<http://academics.georgiasouthern.edu/garden/>).

The Georgia Southern University Museum

Since 1982, the Georgia Southern University Museum has sought to preserve, exhibit, and interpret objects pertaining to the unique cultural heritage and natural history of this region. A world-class mosasaur specimen and *Georgiacetus vogtlensis*, the most primitive fossil whale ever discovered in North America, are among the many specimens interpreting Georgia's prehistoric past. Native American artifacts, a rare antebellum cotton gin, a dugout canoe, and WPA mural are a few of the extraordinary artifacts that interpret the unique cultural history of the region. The museum also hosts a variety of onsite and offsite changing exhibits and programs relevant to the University's academic programs—often curated by faculty and students. The Museum partners with the Center for Interdisciplinary STEM Education to offer resources for hands-on science education to teachers across south Georgia. The Museum serves as a research and educational resource for faculty, staff, students, the general public, and K-12 schools. Opportunities exist for undergraduate and graduate student involvement in all aspects of the museum's programs. The Museum is located in the Rosenwald Building on historic Sweetheart Circle and is free for Georgia Southern University students. Check the website for operating hours, non-student admissions, changing exhibits and special events. Inquiries may be directed to the museum at (912) 478-5444. Visit the website at academics.georgiasouthern.edu/museum (<https://academics.georgiasouthern.edu/museum/>).

The Center for Wildlife Education and The Lamar Q Ball, Jr. Raptor Center

Since its opening in 1997, the Center for Wildlife Education & Lamar Q Ball Jr. Raptor Center has grown into one of the leading environmental education facilities in Georgia. At over 17 acres in size, the Center supports Georgia Southern University's environmental education programs with a mission to provide wildlife encounters for school children and citizens of the region. The Center displays numerous species of eagles, hawks, falcons, owls, and vultures showcased in their natural habitats. Flighted raptor demonstrations and reptile programs are offered to the public on weekends and to scheduled groups on weekdays. The Center includes exhibits dedicated to Georgia's wildlife, including the newly constructed Waterfowl Pond, which brings attention to the native species of waterfowl found in our region. Built through private donations, the \$3 million Center is supported operationally through state, private and public partnerships. The 12-acre expansion, the Wetland Preserve, opened in 2009 to educate visitors on wetland ecosystems and waterfowl and wading birds that are native to Georgia. Inquiries may be directed to the Center at (912) 478-0831. Visit the website at academics.georgiasouthern.edu/wildlife (<http://academics.georgiasouthern.edu/wildlife/>).

The Center for the Performing Arts

The Georgia Southern University Performing Arts Center (PAC) is located in the Nessmith-Lane Conference Center. The 34,000 square foot facility houses an 825-seat theatre with state-of-the-art lighting and sound systems. Programming is booked to reflect the Center's mission: "To present diverse, quality cultural experiences to the Georgia Southern University and regional communities through the performing arts. To support and enhance the University's performing art departments. To promote the discovery, appreciation, and enrichment of the performing arts to all with accessibility to perform and train in a professional, state-of-the-art performing arts center." Between the months of August and May, the PAC presents two professional touring series: The Main Stage Series includes national and international touring performing artists representing diverse genres such as music concerts, theatre, and dance, while the School Matinee Series brings quality theatrical and music performances to enhance local and regional school curriculums. The PAC is also available to support university department programming as well as external organization rentals. Inquiries may be directed to the Box Office at (912) 478-7999 or to the Center's administrative offices at (912) 478- 0830. Visit the website at academics.georgiasouthern.edu/pac (<http://academics.georgiasouthern.edu/pac/>).

Strategic Pillars

The University Strategic Plan goals, objectives and actions are designed around five structural themes—our Strategic Pillars:

Pillar 1: Student Success

Georgia Southern University is dedicated to helping students reach their full potential. Through engagement with the institution and exposure to a student-centered approach, students are able to thrive, reach their goals, and complete their degrees. By providing access to resources for support, as well as strong curricular and co-curricular opportunities, the University promotes the intellectual, personal, and professional development of students. Each student is challenged to define what success means to them and to follow customized, well-supported pathways to success.

Pillar 2: Teaching and Research

Teaching and research are the keystones to advance knowledge, foster creativity, inspire innovation, and improve quality of life. Georgia Southern University will increase investment in research programs, faculty development, and current technologies that enhance the faculty as teacher-scholars and support their ability to model best practices for students. As a result, faculty can improve student learning, prepare students to compete in the global marketplace, and enhance student success by providing access to a complete experiential learning environment that develops students into holistic critical thinkers who contribute as productive citizens to societal enrichment.

Pillar 3: Inclusive Excellence

Georgia Southern University celebrates diversity in all its forms. All populations will feel valued and respected, regardless of race, gender, ethnicity, religion, national origin, age, sexual orientation or identity, education, or disability. In addition, the University will capitalize on distinctive, unique campus cultures while encouraging strong institutional unity.

Pillar 4: Operational Efficiency, Effectiveness and Sustainability

Georgia Southern University will implement robust policies, procedures, and practices to ensure current and future sustainability, highlighting financial management, risk management, and employee satisfaction. The "One Georgia Southern" theme will reinforce the University's focus on equity, diversity, and inclusive excellence.

Pillar 5: Community Engagement

Community engagement is critical to ensure that Georgia Southern University's impact extends far beyond the geographic boundaries of

its multiple campuses. The University is committed to being a strong partner with community members, area organizations, U.S. military, and local companies. By deepening strategic relationships, expanding cultural opportunities, and encouraging community members to engage, the University will distinguish itself as a valued partner and community resource.

The Georgia Southern University Libraries

The GS Libraries support the University's academic programs and the scholarly needs of students, faculty, and staff by providing information resources and high quality research services. The GS Libraries are a gateway to the Internet, electronic information resources, books, government documents, periodical articles, electronic books, audio-visual materials, and educational software.

The Libraries are also excellent locations for quiet or group study. For contact information, access to online resources and services, and full descriptions of the support we offer to faculty and students, visit library.georgiasouthern.edu (<http://library.georgiasouthern.edu/>), whether you are on the Statesboro, Armstrong, or Liberty campus.

Henderson Library, Statesboro Campus

The Zach S. Henderson Library opened in 1975 after outgrowing the Rosenwald building. A \$22.75 million expansion/renovation project began in summer 2004 and was completed in August 2008. This expansion added 101,000-square feet to the original building and included the first Automated Storage and Retrieval System in any library in the southeast. The total square footage of the building is 245,888.

The Library houses over 400 Internet-accessible personal computers, both Windows-compatible and Macintosh. Wireless access to the Internet and the campus network are offered if you wish to bring your own laptop or portable device. You can also borrow laptops, iPads and small portable whiteboards for use within the building at the checkout desk on the second floor. Support for a variety of standard and advanced software programs is available.

Lane Library, Armstrong Campus

Named for Mills B. Lane, prominent Savannah-Atlanta banker, philanthropist, and an early patron of the university, Lane Library was built in 1966 and substantially enlarged in 1975. The building was completely renovated in 2005-2006. Lane Library measures 50,000 sq. ft. and seats about 500. The space devoted to library services grew by about 25% with the 2013 opening of the Learning Commons in an adjacent renovated building. The Learning Commons seats about 250 and provides space and furniture for group learning activities. Both the Library and the Learning Commons feature group study rooms, Macs (21) and PCs (100), laptops that students can borrow, and Wi-Fi access.

Collections

The GS Libraries are a major academic resource for three campuses, with their extensive collections of scholarly books and journals, government publications, special book and manuscript collections, AV materials, and links to networked information resources in various electronic formats.

Currently, the Libraries' collections contain over 942,300 volumes of printed books and bound periodicals, and 50,000 physical media. In addition to the extensive physical collections, the Libraries also provide access to a growing number of electronic resources which includes over 719,900 electronic books, 141,200 electronic journals and related resources, 151,200 digital media, and 291 databases that contain indexes,

abstracts, full-text articles, and digital images. These electronic resources are easily accessible both on and off campus 24/7.

Both libraries house special collections that contain rare books, manuscript collections, and artifacts relating to the history of local areas and the University. The Lane Library's special collections include the University Archives and the Florence Powell Minis Collection, which contains published materials on local history and culture and first editions by Conrad Aiken and other Savannah writers.

The Zach S. Henderson Library's Special Collections division houses rare books, manuscript collections, and artifacts relating to the history of the Statesboro region and Georgia Southern University. Special Collections has materials documenting the Civil War, World War II, southern railroads, early businesses, and local genealogy. Popular collections include: the Okefenokee Swamp Collection, the Bulloch County Historical Society Collection, and the Lucile Hodges Collection. Also available for research are the Marvin S. Pittman Collection and the Charles Holmes Herty Collection, to name only a few.

Services

Books and other materials held at Henderson Library in Statesboro and Lane Library at the Armstrong campus may be requested for delivery to patrons at the other campuses within one or two business days. In addition, books from other University System of Georgia Libraries can be requested free-of-charge through the GIL Express service. Through the state-sponsored GALILEO system and through locally selected resources, library users have online access to hundreds of databases, five million book titles, thousands of academic journals, and many forms of media. Most journal articles and books that are not otherwise available from University System of Georgia Libraries can be requested from other libraries in the United States and around the world via an interlibrary loan service.

A notable and unique resource is Digital Commons@Georgia Southern, an open access digital collection whose purpose is to collect and disseminate the intellectual and creative output of the University's faculty, staff, and students. Contributions come from all over the University and include theses/dissertations, conference proceedings, research publications, brochures, and newsletters.

The Library Liaison Program was created to provide better engagement with academic departments and their faculty and students across campuses. Liaison Librarians are available for providing one-on-one consultations, giving special seminars, teaching library/Internet-use workshops, creating subject guides for disciplines and courses, offering individualized research assistance, locating resources, and collaborating with researchers on data management plans (DMP's) for grant proposals.

The Libraries offer extensive service hours during academic semesters, with some variation between facilities. The schedules vary for holidays and between semesters, so check the Libraries web site for details: <https://library.georgiasouthern.edu>. The web page also gives you the connections to our electronic resources, online catalog of library holdings, interactive reference service, and useful tips on finding the information you need.

Off-campus library services are supported through the online services described above and by local libraries. Off-campus faculty and students have access to online library resources via the Libraries' web page using their MyGeorgiaSouthern credentials. Off-campus students may also request materials that are not available in full text online by using the Libraries' online fulfillment service.

The Libraries' administration actively seeks comments and suggestions concerning any aspect of its operations and collections. The Dean of the Libraries is available to meet with any member of the academic community to discuss the resources of the Libraries or its connections to other information networks and services throughout the world. To

contact the Libraries, please visit the Libraries' website at <https://library.georgiasouthern.edu/about/contact/>.

The University System of Georgia

The Board of Regents of the University System of Georgia was created in 1931 as part of a reorganization of Georgia's state government. With this act, public higher education in Georgia was unified for the first time under a single governing and management authority. The Board oversees 26 higher education institutions including: four research universities, four comprehensive universities, nine state universities, and nine state colleges. The University System of Georgia also includes the Georgia Public Library System and the Georgia Archives.

The governor appoints members to the Board, who each serves seven years. Today the Board of Regents is composed of 19 members, five of whom are appointed from the state-at-large, and one from each of the 14 congressional districts. The Board elects a chancellor who serves as its chief executive officer and the chief administrative officer of the University System. The Chair, the Vice Chair, and other officers of the Board are elected by the members of the Board.

System Institutions

Research Universities

- Augusta University, Augusta
- Georgia Institute of Technology, Atlanta
- Georgia State University, Atlanta
- University of Georgia, Athens

Comprehensive Universities

- Georgia Southern University, Statesboro
- Kennesaw State University, Kennesaw
- University of West Georgia, Carrollton
- Valdosta State University, Valdosta

State Universities

- Albany State University, Albany
- Clayton State University, Morrow
- Columbus State University, Columbus
- Fort Valley State University, Fort Valley
- Georgia College and State University, Milledgeville
- Georgia Southwestern State University, Americus
- Middle Georgia State University, Macon
- Savannah State University, Savannah
- University of North Georgia, Dahlonega

State Colleges

- Abraham Baldwin Agricultural College, Tifton
- Atlanta Metropolitan State College, Atlanta
- College of Coastal Georgia, Brunswick
- Dalton State College, Dalton
- East Georgia State College, Swainsboro
- Georgia Gwinnett College, Lawrenceville
- Georgia Highlands College, Rome
- Gordon State College, Barnesville
- South Georgia State College, Douglas

System Administration

Members of the Board of Regents¹

	District	Term Ends
Erin Hames, Atlanta	(State-at-Large)	2023
Samuel D. Holmes, Atlanta	(State-at-Large)	2026
James M. Hull, Augusta	(State-at-Large)	2023
Cade Joiner, Brookhaven	(State-at-Large)	2027
T. Dallas Smith, Atlanta	(State-at-Large)	2027
Don L. Waters, Savannah	(1st District)	2025
Barbara Rivera Holmes, Albany	(2nd District)	2025
C. Thomas Hopkins, Jr., Griffin	(3rd District)	2024
Rachel B. Little, Loganville	(4th District)	2026
Sarah-Elizabeth Reed, Atlanta	(5th District)	2024
Kessel D. Stelling, Jr., Columbus	(6th District)	2022
Jose R. Perez, Peachtree Corners	(7th District)	2026
W. Allen Gudenrath, Macon	(8th District)	2025
Philip A. Wilheit, Sr., Gainesville	(9th District)	2022
Harold Reynolds, Greensboro	(10th District)	2027
Neil L. Pruitt, Jr., Norcross	(11th District)	2024
C. Everett Kennedy, III, Statesboro	(12th District)	2027
Sachin Shailendra, Atlanta	(13th District)	2028
Lowery Houston May, Rome	(14th District)	2027

Officers and Staff Members of the Board of Regents

- Sachin Shailendra, Chair
- Cade Joiner, Vice Chair
- Steve Wrigley, Chancellor
- Edward M. Tate, Secretary to the Board

¹ For the most recent information, refer to <https://www.usg.edu/regents/>.

University Calendars

Note: *Though the University will try to adhere to dates published here, it may become necessary to make changes to the published calendar. The Office of the Registrar will maintain updates to the calendar and any updates may be viewed on our web site, <http://em.georgiasouthern.edu/registrar/resources/calendars> (<http://em.georgiasouthern.edu/registrar/resources/calendars/>).*

Fall 2021 Full Term

August 2	Academic Year Begins
August 2	Academic Standards Committee meeting, 1:00 p.m. - 3 p.m.
August 2	Academic Standing Appeals due at 11:59 p.m.
August 3	Academic Standards Committee meeting, 1:00 p.m. - 3 p.m.
August 3	New Faculty Orientation, Statesboro Campus
August 4	State of the University at 10:00 A.M. (Location TBD)
August 5	State of the University at 10:00 A.M. (Location TBD)
August 6	Armstrong Campus – Operation Move-In for First Year Students (University Housing Move-In by timeslot appointments)
August 6	Statesboro Campus – Operation Move-In for all Students (University Housing Move-In by timeslot appointments)
August 7	Armstrong Campus – Operation Move-In for Returning and Transfer Students (University Housing Move-In by timeslot appointments)
August 7	Statesboro Campus – Operation Move-In (University Housing Move-In by timeslot appointments)
August 11	Fee payment deadline for Fall 2021, (First Day of University Classes)
August 11	Full Term, Classes Begin, Attendance Verification must be completed on the first class meeting day
August 11-16	Full Term, Drop/Add, Ends at 11:59 p.m. on August 16th
August 17	\$100 Late Registration Fee begins
August 18	Cancellation of Fall Classes for Non-Payment
September 6	Labor Day Holiday – Administrative offices closed – No classes
October 7	Full Term, Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal/)
October 25	SARC (Student Accessibility Resource Center) Early Registration for Spring 2022 and Summer 2022 begins
October 29	Final date for undergraduate and graduate students to apply for Fall 2021 graduation
October 30	Homecoming, Classes canceled beginning at 2:15 p.m. on Friday, October 29th
November 1	Early Registration for Spring 2022 and Summer 2022 begins (Students should view WINGS for individual date and time)
November 5	Final date to hold terminal or comprehensive examination, theses and dissertation defenses
November 15	Final deadline for University System of Georgia full-time employees to apply for the Employee Tuition Assistance Program (TAP) for Spring 2022
November 15	Employee Tuition Assistance Program (TAP) registration for Spring 2022, via the web beginning at 8:30 a.m.
November 19	Deadline to submit electronic theses and dissertations to College of Graduate Studies for final format review
November 22-26	Thanksgiving Holidays for students, Residence halls open – Administrative offices open November 22-24, closed November 25-26 for Thanksgiving Holidays
December 1	Full Term, Last Day of Classes
December 2-8	Full Term, Final Exams

December 9	Residence halls close at 12:00 noon for students not participating in Graduation (Centennial Place, Freedom's Landing, University Villas residents and Armstrong Campus open for students who sign up)
December 9	Faculty Grading Day
December 10	Deadline to submit final verified and approved electronic theses or dissertations to College of Graduate Studies
December	Commencement - TBD
December	Commencement - TBD
December 11	Statesboro Campus - Residence halls close at 12:00 noon for students participating in Commencement activities (permission required)
December 11	Armstrong Campus - Residence halls close at 12:00 noon for students participating in Commencement activities (permission required)
December 13	Winter Break for students begins
Dec 25-Jan 3	Winter Break – Administrative offices closed

TBD - To Be Determined

Fall 2021 Minimester I (Term A)

Note: For other important Fall 2021 calendar information, refer to the Full Term calendar (p. 17).

August 11	Minimester I (Term A), Classes Begin, Attendance Verification must be completed on the first class meeting day
August 11-16	Minimester I (Term A), Drop/Add, Ends at 11:59 p.m. on August 16th
September 8	Minimester I (Term A), Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal/)
September 30	Minimester I (Term A), Last Day of Classes
October 1-5	Minimester I (Term A), Final Exams
October 6	Residence Halls close at 12:00 noon for students attending Minimester I (Term A) only (students who are also enrolled for the Full Term and/or Minimester II (Term B) courses are not required to move out).

Fall 2021 Minimester II (Term B)

Note: For other important Fall 2021 calendar information, refer to the Full Term calendar (p. 17).

October 5	Minimester II (Term B), Housing Move in for New Students Only at 12:00 noon
October 6	Minimester II (Term B), Classes Begin, Attendance Verification must be completed on the first class meeting day
October 6-11	Minimester II (Term B), Drop/Add, Ends at 11:59 p.m. on October 11th
October 18	Cancellation of Fall, Term B Classes for Non-Payment
November 3	Minimester II (Term B), Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal/)
December 1	Minimester II (Term B), Last Day of Classes

December 2-8	Minimester II (Term B), Final Exams
December 9	Faculty Grading Day

Fall 2021 MBA, Savannah Term

Note: For other important Fall 2021 calendar information, refer to the Full Term calendar (p. 17).

August 11	MBA, Savannah Term, Classes Begin, Attendance Verification must be completed on the first class meeting day
August 11-16	MBA, Savannah Term, Drop/Add
October 7	MBA, Savannah Term, Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal (http://em.georgiasouthern.edu/registrar/students/withdrawal/))
November 30	MBA, Savannah Term, Last day of classes
December 1	Study Day
December 2, 7, 8	MBA, Savannah Term, Final Exams

Fall 2021 eCore and GOML (Georgia ONmyLINE)

Note: For other important Fall 2021 calendar information, refer to the Full Term calendar (p. 17).

April 1	Registration begins for Fall 2021 Full, Short 1 and Short 2 sessions
August 16	Full and Short 1 sessions, Classes Begin
August 16-18	Full and Short 1 sessions, Late Registration/Add period
August 16-20	Full and Short 1 sessions, Drop period
August 20-26	Attendance Verification must be completed for Full and Short 1 sessions
September 13	Last day to withdraw without academic penalty, Short 1 session
October 5	Classes end for Short 1 session
October 6-9	Final Exams for Short 1 session
October 11	Grades due for Short 1 session
October 11	Last day to withdraw without academic penalty, Full session
October 11	Classes begin, Short 2 session
October 11-13	Late Registration/Add period for Short 2 session
October 11-15	Drop period for Short 2 Session
October 14-20	Attendance Verification must be completed for Short 2 session
November 1	Early Registration, for Spring 2022 Full, Short 1 and Short 2 sessions
November 5	Last day to withdraw without academic penalty for Short 2 session
December 1	Classes end for Full and Short 2 sessions
December 2-7	Final Exams for Full session and Short 2 session
December 4-8	ECORE, GOML (Georgia ONmyLINE), Final Exams for Short II session

Fall 2021 WebMBA (Web Master Business Administration)

Note: For other important Fall 2021 calendar information, refer to the Full Term calendar (p. 17). For other important WebMBA calendar dates, refer to the Georgia WebMBA calendar.

August 11	WebMBA, Classes Begin
August 11-13	WebMBA, Drop/Add
September 28	WebMBA, Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal (http://em.georgiasouthern.edu/registrar/students/withdrawal/))
November 10	WebMBA, Last day of classes
November 12, 13, 15	WebMBA, Final Exams

Fall 2021 Tactical Athletic Certificate - Term 1

Note: For other important Fall 2021 calendar information, refer to the Full Term calendar (p. 17).

September 13	Classes Begin
September 13-14	Drop/Add
September 22	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal (http://em.georgiasouthern.edu/registrar/students/withdrawal/))
October 1	Last day of classes
October 2	Final Exams

Fall 2021 Tactical Athletic Certificate - Term 2

Note: For other important Fall 2021 calendar information, refer to the Full Term calendar (p. 17).

October 4	Classes Begin
October 4-5	Drop/Add
October 13	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal (http://em.georgiasouthern.edu/registrar/students/withdrawal/))
October 22	Last day of classes
October 23	Final Exams

Fall 2021 Tactical Athletic Certificate - Term 3

Note: For other important Fall 2021 calendar information, refer to the Full Term calendar (p. 17).

November 1	Classes Begin
November 1-2	Drop/Add
November 10	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal (http://em.georgiasouthern.edu/registrar/students/withdrawal/))
November 19	Last day of classes
November 20	Final Exams

Spring 2022 Full Term

Note: For other important Spring 2022 calendar information, refer to the Fall 2021 Full Term calendar (p. 17).

November 15	Final deadline for University System of Georgia full-time employees to apply for the Employee Tuition Assistance Program (TAP) for Spring 2022
November 15	Employee Tuition Assistance Program (TAP) registration for Spring 2022, via the web beginning at 8:30 a.m.
Dec 25-Jan 3	Winter Break – Administrative offices closed
January 3	New Year's Day Holiday - Administrative offices closed - No classes
January 4	Academic Standards Committee meeting, 1:00 p.m. - 3:00 p.m.
January 4	Academic Standing Appeals due at 11:59 p.m.
January 5	Academic Standards Committee meeting, 1:00 p.m. - 3:00 p.m.
January 6	Residence hall check-in, 12:00 noon at the Residence halls (May change depending on SOAR schedule)
January 10	Fee payment deadline for Spring 2022, (First Day of University Classes)
January 10	Full Term, Classes Begin, Attendance Verification must be completed on the first class meeting day
January 10-13	Full Term, Drop/Add, Ends at 11:59 p.m. on January 13th
January 14	\$100 Late Registration Fee begins
January 17	Martin Luther King Jr. Holiday - Administrative offices closed - No classes
January 18	Cancellation of Fall Classes for Non-Payment
March 7	Full Term, Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal) (http://em.georgiasouthern.edu/registrar/students/withdrawal/)
March 7-11	SARC (Student Accessibility Resource Center) Early Registration for Fall 2022 begins
March 14-19	Spring break for students – Administrative offices open – Residence halls open
March 21	Early Registration for Fall 2022 begins (Students should view WINGS for individual date and time)
March 25	Final date for undergraduate and graduate students to apply for Spring 2022 graduation and Summer 2022 graduation
April 8	Final date to hold terminal or comprehensive examination, theses or dissertation defenses
April 15	Final Deadline for University System of Georgia full-time employees to apply for the Employee Tuition Assistance Program (TAP) for Summer 2022
April 15	Employee Tuition Assistance Program (TAP) registration for Summer 2022, via the web beginning at 8:30 a.m.
April 22	Deadline to submit electronic theses and dissertations to College of Graduate Studies for final format review
May 2	Full Term, Last Day of Classes
May 3-6	Full Term, Final Exams
May 6	Deadline to submit final verified and approved electronic theses or dissertations to College of Graduate Studies
May 6	Statesboro campus residence halls close for non-graduating students, 12:00 noon

May 6	Armstrong campus residence halls close for non-graduating students, 12:00 noon
May	Commencement – TBD
May	Commencement – TBD
May 8	Armstrong campus residence halls close for graduating students, 12:00 noon
May 8	Statesboro campus residence halls close for graduating students, 5:00 p.m.

TBD - To Be Determined

Spring 2022 Minimester I (Term A)

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19).

January 10	Minimester I (Term A), Classes Begin, Attendance Verification must be completed on the first class meeting day
January 10-13	Minimester I (Term A), Drop/Add
February 7	Minimester I (Term A), Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal) (http://em.georgiasouthern.edu/registrar/students/withdrawal/)
March 1	Minimester I (Term A), Last Day of Classes
March 2-5	Minimester I (Term A), Final Exams
March 5	Residence Halls close at 12:00 noon for students attending Minimester I (Term A) only (students who are also enrolled for Full Term and/or Minimester II (Term B) courses are not required to move out)

Spring 2022 Minimester II (Term B)

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19).

March 4	Minimester II (Term B), Housing Move in for New Students Only at 12:00 noon
March 7	Minimester II (Term B), Classes Begin, Attendance Verification must be completed on the first class meeting day
March 7-10	Minimester II (Term B), Drop/Add, Ends on March 10th at 5:00 p.m.
April 11	Minimester II (Term B), Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal) (http://em.georgiasouthern.edu/registrar/students/withdrawal/)
May 2	Minimester II (Term B), Last Day of Classes
May 3-6	Minimester II (Term B), Final Exams

Spring 2022 MBA, Savannah Term

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19).

January 11	MBA, Savannah Term, Classes Begin, Attendance Verification must be completed on the first class meeting day
January 10-13	MBA, Savannah Term, Drop/Add

March 7	MBA, Savannah Term, Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal/)
March 14-18	MBA, Savannah Term, Last day of classes
April 28	Study Day
May 2	Study Day
May 3-5	MBA, Savannah Term, Final Exams

Spring 2022 eCore and GOML (Georgia ONmyLINE)

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19).

January 10	Full and Short 1 Session, Classes Begin
January 10-12	Full and Short 1 Session, Late Registration/Add period
January 10-14	Full and Short 1 Session, Drop period
January 13-19	Full and Short 1 Session, Attendance Verification must be completed
February 7	Last day to withdraw without academic penalty, Short 1 Session
March 1	Last day of classes for Short 1 Session
March 2-5	Final Exams for Short 1 Session
March 7	Full Session, Last day to withdraw without academic penalty
March 7	Classes begin, Short II session
March 7-9	Short II session, Late Registration/Add period
March 7-11	Short II session, Drop period
March 10-16	Attendance Verification must be completed for Short II session
April 1	Registration Begins for Summer 2022 and Fall 2022
April 1	Last day to withdraw without academic penalty for Short II session
April 22	Classes end for Full Session
April 23-28	Final Exams for Full Session
April 25	Last day of classes for Short session II
April 26-30	Final Exams for Short II session

Spring 2022 WebMBA (Web Master Business Administration)

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19). For other important WebMBA calendar dates, refer to the Georgia WebMBA calendar.

January 10	WebMBA, Classes Begin
January 10-13	WebMBA, Drop/Add
February 28	WebMBA, Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (http://em.georgiasouthern.edu/registrar/students/withdrawal/)
April 18	WebMBA, Last day of classes
April 19-22	WebMBA, Final Exams

Spring 2022 Tactical Athletic Certificate - Term 1

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19).

January 24	Classes Begin
January 24-25	Drop/Add
February 2	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (https://em.georgiasouthern.edu/registrar/students/withdrawal/)
February 11	Last day of classes
February 11	Final Exams

Spring 2022 Tactical Athletic Certificate - Term 2

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19).

February 21	Classes Begin
February 21-22	Drop/Add
March 2	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (https://em.georgiasouthern.edu/registrar/students/withdrawal/)
March 11	Last day of classes
March 12	Final Exams

Spring 2022 Tactical Athletic Certificate - Term 3

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19).

March 21	Classes Begin
March 21-22	Drop/Add
March 30	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (https://em.georgiasouthern.edu/registrar/students/withdrawal/)
April 8	Last day of classes
April 9	Final Exams

Spring 2022 Tactical Athletic Certificate - Term 4

Note: For other important Spring 2022 calendar information, refer to the Full Term calendar (p. 19).

April 11	Classes Begin
April 11-12	Drop/Add

April 20	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (https://em.georgiasouthern.edu/registrar/students/withdrawal) (https://em.georgiasouthern.edu/registrar/students/withdrawal/)
April 29	Last day of classes
April 30	Final Exams

Summer 2022 Long Term

March 25	Final Date for Undergraduate and Graduate students to apply for Spring 2022 and Summer 2022 graduation
April 15	Final Deadline for University System of Georgia full-time employees to apply for the Employee Tuition Assistance Program (TAP) for Summer 2022
April 15	Employee Tuition Assistance Program (TAP) Registration for Summer 2022, via the web beginning at 8:30 a.m.
May 13	Residence hall check-in for Long Term, 12:00 noon in the Residence halls
May 16	Fee payment deadline for Summer 2022 (First Day of University Classes)
May 16	Long Term, Classes Begin, Attendance Verification must be completed on the first class meeting day
May 16-18	Long Term, Drop/Add
May 23	cancellation for Non-Payment of all Summer Registration except for students with all registration in only Term B
May 30	Memorial Day – Administrative offices closed – No classes
June 15	Long Term, Last day to withdraw without academic penalty
June 17	Final date to hold terminal or comprehensive examination, theses or dissertation defense for Summer 2022 graduates
June 23	Academic Standards Committee meeting
July 1	Deadline to submit electronic theses and dissertations to College of Graduate Studies for committee approval
July 4	Independence Day Holiday (Observed) – Administrative offices closed – No classes
July 5	Long Term, Last Day of Classes for Tuesday/Thursday Evening Classes
July 7	Long Term, Final exams for Tuesday/Thursday Evening Classes
July 11	Long Term, Last Day of Classes for Monday/Wednesday Evening Classes
July 13	Long Term, Last Day of Classes
July 13	Long Term, Final exams for Monday/Wednesday Evening Classes
July 14-15	Long Term, Final exams
July 15	Employee Tuition Assistance Program (TAP) Registration for Fall 2022, via the web beginning at 8:30 a.m.
July 15	Final Deadline for University System of Georgia full-time employees to apply for the Employee Tuition Assistance Program (TAP) for Fall 2022
July 15	Residence halls close at 12:00 noon for students attending Long Term
July 15	Deadline to submit final approved and verified electronic theses or dissertations to College of Graduate Studies

TBD - To Be Determined

Summer 2022 Health Professions Term

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

May 16	Health Professions Term, Classes begin, Attendance Verification must be completed on the first class meeting day
May 16-18	Health Professions Term, Drop/Add
June 15	Health Professions Term, Last day to withdraw without academic penalty
July 13	Health Professions Term, Last Day of Classes
July 14-15	Health Professions Term, Final Exams

Summer 2022 Minimester I (Term A)

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

May 13	Residence hall check-in for Minimester I (Term A), 12:00 noon in the Residence halls
May 16	Minimester I (Term A), Classes begin, Attendance Verification must be completed on the first class meeting day
May 16-18	Minimester I (Term A), Drop/Add
June 1	Minimester I (Term A), Last day to withdraw without academic penalty
June 9	Minimester I (Term A) - COE Graduate Evening Classes during Minimester I (Term A), Tuesday/Thursday Session, Last Day of Classes
June 13	Minimester I (Term A) - COE Graduate Evening Classes during Minimester I (Term A), Monday/Wednesday Session, Last day of classes
June 14	Minimester I (Term A) - COB Graduate Evening Classes during Minimester (Term A), Tuesday/Thursday Session, Last Day of Classes
June 14	Minimester I (Term A) - COE Graduate Evening Classes during Minimester I (Term A) Tuesday/Thursday Session, Final exams, 4:00 p.m.
June 15	Minimester I (Term A) - COB Graduate Evening Classes during Minimester I (Term A), Monday/Wednesday, Last day of classes
June 15	Minimester I (Term A) - COE Graduate Classes during Minimester I (Term A), Monday/Wednesday, Final exams, 4:00 p.m.
June 15	Minimester I (Term A), Last Day of Classes
June 16	Minimester I (Term A), Final exams
June 16	Minimester I (Term A), Final exams, Evening classes, 6:00-8:00 p.m.
June 16	Minimester I (Term A) - COB Graduate Evening Classes during Minimester I (Term A) Monday/Wednesday Session, Final exams, 6:00 pm
June 16	Minimester I (Term A) - COB Graduate Evening Classes during Minimester I (Term A) Tuesday/Thursday Session, Final exams, 8:15 p.m.
June 17	Residence halls close at 12:00 noon for students attending Minimester I (Term A)

Summer 2022 Minimester II (Term B)

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

June 19	Residence hall check-in for Minimester II (Term B) at 12:00 noon in the Residence halls
June 20	Minimester II (Term B), Classes begin; Attendance Verification must be completed on the first class meeting day
June 20-22	Minimester II (Term B), Drop/Add
June 28	Cancellation of Summer, Minimester II (Term B) Classes for Non-Payment
July 6	Minimester II (Term B), Last day to withdraw without academic penalty
July 14	Minimester II (Term B) - COE Graduate Classes during Minimester II (Term B), Tuesday/Thursday Session, Last Day of Classes
July 18	Minimester II (Term B) - COE Graduate Classes during Minimester II (Term B), Monday/Wednesday Session, Last day of classes
July 19	Minimester II (Term B) - COB Graduate Evening Classes during Minimester II (Term B), Tuesday/Thursday Session, Last day of classes
July 19	Minimester II (Term B) - COE Graduate Classes during Minimester II (Term B), Tuesday/Thursday Session, Final exams, 11:00 a.m. or 4:00 p.m.
July 20	Minimester II (Term B) - COB Graduate Evening Classes during Minimester II (Term B), Monday/Wednesday Session, Last day of classes
July 20	Minimester II (Term B) - COE Graduate Classes during Minimester II (Term B), Monday/Wednesday, Final exams, 11:00 a.m. or 4:00 p.m.
July 20	Minimester II (Term B), Last Day of Classes
July 21	Minimester II (Term B) - COB Graduate Evening Classes during Minimester II (Term B), Monday/Wednesday Session, 6:00 p.m., Final exams
July 21	Minimester II (Term B) - COB Graduate Evening Classes during Minimester II (Term B), Tuesday/Thursday Session, 8:15 p.m., Final exams
July 21	Minimester II (Term B), Final Exams
July 21	Minimester II (Term B), Evening Classes, Final exams, 6:00-8:00 p.m.
July 22	Residence halls close at 12:00 noon for Minimester II (Term B) and Eagle Success Students

Summer 2022 ECORE/GOML (Georgia ONmyLINE) - 10 Week Term

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

April 1	Early Registration, for Summer 2022 and Fall 2022
May 10	First Day of Classes
May 10-12	Late Registration/Add period
May 10-16	Drop period
May 12-18	Attendance Verification must be completed for Summer 2022
June 10	Last day to withdraw without academic penalty
July 11	Last Day of Classes
July 12-14	Final Exams

Summer 2022 ECORE/GOML (Georgia ONmyLINE) - 8 Week Term Session 1

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

April 1	Early Registration, for Summer 2022 and Fall 2022
May 16	First day of classes, Short I session
May 16-18	Late Registration/Add period, Short I session
May 16-20	Drop Period, Short I session
May 19-25	Short I session, Attendance Verification must be completed for Summer 2022
June 14	Short I session, Last day to withdraw without academic penalty
July 8	Short I session, Last Day of Classes
July 12-14	Short I session, Final Exams

Summer 2022 ECORE/GOML (Georgia ONmyLINE) - 8 Week Term Session 2

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

April 1	Early Registration, for Summer 2022 and Fall 2022
May 23	First day of classes, Short II session
May 23-25	Late Registration/Add period, Short II session
May 23-27	Drop Period, Short II session
May 26-June 1	Short II session, Attendance Verification must be completed for Summer 2022
June 21	Short II session, Last day to withdraw without academic penalty
July 15	Short II session, Last Day of Classes
July 16-20	Short II session, Final Exams

Summer 2022 COPH Grad Term

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

May 16	College of Public Health Graduate Evening Monday/Wednesday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
May 16-18	College of Public Health Graduate Session, Drop/Add
May 17	College of Public Health Graduate Evening Tuesday/Thursday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
June 7	College of Public Health Graduate Evening Session, Last day to withdraw without academic penalty
June 21	College of Public Health Graduate Evening Tuesday/Thursday Session, Last Day of Classes
June 22	College of Public Health Graduate Evening Monday/Wednesday Session, Last Day of Classes
June 23	College of Public Health Graduate Evening Session, Final exams for Tuesday/Thursday
June 27	College of Public Health Graduate Evening Session, Final exams for Monday/Wednesday

Summer 2022 COE Grad Term

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

May 31	College of Education Graduate Tuesday/Thursday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
May 31 - June 2	College of Education Graduate Session, Drop/Add

June 1	College of Education Graduate Monday/Wednesday Session, Classes Begin, Attendance Verification must be completed on the first class meeting day
June 21	College of Education Graduate Session, Last day to withdraw without academic penalty
July 7	College of Education Graduate Tuesday/Thursday Session, Last Day of Classes
July 12	College of Education Graduate Session, Tuesday/Thursday, Final exams
July 13	College of Education Graduate Monday/Wednesday Session, Last day of classes
July 14	College of Education Graduate Session, Monday/Wednesday, Final exams

Summer 2022 MBA Term - 10 Weeks Savannah

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

May 17	MBA – Savannah, Ten week session, Classes Begin, Attendance Verification must be completed on the first class meeting day
May 17-19	MBA – Savannah, Ten week session, Drop/Add
June 16	MBA - Savannah, Ten-week session, Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information
July 14	MBA - Savannah, Ten week session, Last day of classes
July 19-21	MBA - Savannah, Ten week session, Final Exams

Summer 2022 WebMBA (Web Master Business Administration)

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21). For other important WebMBA calendar dates, refer to the Georgia WebMBA calendar.

TBD	WebMBA, Classes Begin, Attendance Verification must be completed on the first class meeting day
TBD	WebMBA, Drop/Add
TBD	WebMBA, Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information
TBD	WebMBA, Last day of classes
TBD	WebMBA, Final Exams

TBD - To Be Determined

Summer 2022 Tactical Athletic Certificate - Term 1

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

June 6	Classes Begin
June 6-7	Drop/Add
June 15	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (https://em.georgiasouthern.edu/registrar/students/withdrawal)

June 24	Last day of classes
June 25	Final Exams

Summer 2022 Tactical Athletic Certificate - Term 2

Note: For other important Summer 2022 calendar information, refer to the Long Term calendar (p. 21).

June 27	Classes Begin
June 27-28	Drop/Add
July 7	Last day to withdraw without academic penalty; See the Policy for Limiting Individual Course Withdrawals for additional information (https://em.georgiasouthern.edu/registrar/students/withdrawal/)
July 18	Last day of classes
July 19	Final Exams

Future University Calendars

Fall 2022

August 10	Fee payment deadline, Fall Semester 2022 (First Day of University Classes)
August 10	Classes begin, Full Term, Minimester I (Term A)
August 10-15	Drop/Add, Full Term, Minimester I (Term A)
September 5	Labor Day – Administrative Offices closed – No classes
September 29	Last day of classes, Minimester I (Term A)
September 30-October 4	Final Exams, Minimester I (Term A)
October 5	Classes begin, Minimester II (Term B)
October 5-10	Drop/Add, Minimester II (Term B), Ends on October 10th at 5:00 p.m.
October 28	Final date for Undergraduate and Graduate students to apply for Fall 2022 graduation
November 21-25	Thanksgiving Holidays for students, Residence halls open – Administrative offices closed November 24-25 for Thanksgiving Holidays
November 30	Last day of classes, Full Term, Minimester II (Term B)
December 1-7	Final Exams, Full Term, Minimester II (Term B)
December	Commencement Tentative, To Be Determined
December	Commencement Tentative, To Be Determined

Spring 2023

January 2	New Year's Day Holiday (Observed) - Administrative offices closed
January 9	Fee payment deadline, Spring Semester 2023 (First Day of University Classes)
January 9	Classes begin, Full Term, Minimester I (Term A)
January 9-12	Drop/Add, Full Term, Minimester I (Term A)
January 16	Martin Luther King Jr. Holiday - Administrative Offices closed - No classes
February 28	Last day of classes, Minimester I (Term A)
March 1-4	Final Exams, Minimester I (Term A)
March 6	Classes begin, Minimester II (Term B)
March 6-9	Drop/Add, Minimester II (Term B), Ends on March 9th at 5:00 p.m.

March 13-18	Spring Break
March 31	Final date for Undergraduate and Graduate students to apply for Spring 2023 graduation
May 1	Last day of classes, Full Term, Minimester II (Term B)
April 29 & May 2-5	Final Exams, Full Term, Minimester II (Term B)
May	Commencement Tentative, To Be Determined
May	Commencement Tentative, To Be Determined

Summer 2023

March 31	Final date for Undergraduate and Graduate students to apply for Spring 2023 graduation
May 15	Fee payment deadline for Summer 2023 (First Day of University Classes)
May 15	Long Term, Minimester I (Term A), Health Professions Term and College of Public Health Graduate Evening Monday/Wednesday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
May 15-17	Drop/Add, Full Term, Minimester I (Term A), Health Professions Term, College of Public Health Graduate Evening Monday/Wednesday Session
May 16	College of Public Health Graduate Evening Tuesday/Thursday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
May 29	Memorial Day – Administrative offices closed – No classes
May 30	College of Education Graduate Tuesday/Thursday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
May 30-June 1	College of Education Graduate Session, Drop/Add
May 31	College of Education Graduate Monday/Wednesday Session, Classes Begin, Attendance Verification must be completed on the first class meeting day
June 14	Minimester I (Term A), Last Day of Classes
June 15	Minimester I (Term A), Final exams
June 19	Minimester II (Term B), Classes begin; Attendance Verification must be completed on the first class meeting day
June 19-21	Minimester II (Term B), Drop/Add
June 20	College of Public Health Graduate Evening Tuesday/Thursday Session, Last Day of Classes
June 21	College of Public Health Graduate Evening Monday/Wednesday Session, Last Day of Classes
June 22	College of Public Health Graduate Evening Session, Final exams for Tuesday/Thursday
June 27	College of Public Health Graduate Evening Session, Final exams for Monday/Wednesday
July 4	Independence Day Holiday – Administrative offices closed – No classes
July 10	College of Education Graduate Monday/Wednesday Session, Last Day of Classes
July 11	College of Education Graduate Tuesday/Thursday Session, Last Day of Classes
July 12	Long Term, Health Professions Term, Last Day of Classes
July 12	College of Education Graduate Session, Monday/Wednesday, Final exams
July 13	College of Education Graduate Session, Tuesday/Thursday, Final exams

July 13-14	Long Term, Health Professions Term, Final exams
July 19	Minimester II (Term B), Last Day of Classes
July 20	Minimester II (Term B), Final Exams

Fall 2023

August 9	Fee payment deadline, Fall Semester 2023 (First Day of University Classes)
August 9	Classes begin, Full Term, Minimester I (Term A)
August 9-14	Drop/Add, Full Term, Minimester I (Term A)
September 4	Labor Day – Administrative Offices closed – No classes
September 28	Last day of classes, Minimester I (Term A)
September 29 - October 3	Final Exams, Minimester I (Term A)
October 4	Classes begin, Minimester II (Term B)
October 4-9	Drop/Add, Minimester II (Term B), Ends on October 9th at 5:00 p.m.
October 27	Final date for Undergraduate and Graduate students to apply for Fall 2023 graduation
November 20-24	Thanksgiving Holidays for students, Residence halls open – Administrative offices closed November 23-24 for Thanksgiving Holidays
November 29	Last day of classes, Full Term, Minimester II (Term B)
November 30 - December 6	Final Exams, Full Term, Minimester II (Term B)
December	Commencement Tentative, To Be Determined
December	Commencement Tentative, To Be Determined

Spring 2024

January 1	New Year's Day Holiday (Observed) - Administrative offices closed
January 8	Fee payment deadline, Spring Semester 2024 (First Day of University Classes)
January 8	Classes begin, Full Term, Minimester I (Term A)
January 8-11	Drop/Add, Full Term, Minimester I (Term A)
January 15	Martin Luther King Jr. Holiday - Administrative Offices closed - No classes
February 27	Last day of classes, Minimester I (Term A)
February 28-March 2	Final Exams, Minimester I (Term A)
March 4	Classes begin, Minimester II (Term B)
March 4-7	Drop/Add, Minimester II (Term B), Ends on March 7th at 5:00 p.m.
March 18-23	Spring Break
March 29	Final date for Undergraduate and Graduate students to apply for Spring 2024 graduation
April 29	Last day of classes, Full Term, Minimester II (Term B)
April 27 & April 30 - May 3	Final Exams, Full Term, Minimester II (Term B)
May	Commencement Tentative, To Be Determined
May	Commencement Tentative, To Be Determined

Summer 2024

March 29	Final date for Undergraduate and Graduate students to apply for Spring 2024 graduation
May 13	Fee payment deadline for Summer 2024 (First Day of University Classes)

May 13	Long Term, Minimester I (Term A), Health Professions Term and College of Public Health Graduate Evening Monday/Wednesday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
May 13-15	Drop/Add, Full Term, Minimester I (Term A), Health Professions Term, College of Public Health Graduate Evening Monday/Wednesday Session
May 14	College of Public Health Graduate Evening Tuesday/Thursday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
May 27	Memorial Day – Administrative offices closed – No classes
May 28	College of Education Graduate Tuesday/Thursday Session, Classes begin, Attendance Verification must be completed on the first class meeting day
May 28-30	College of Education Graduate Session, Drop/Add
May 29	College of Education Graduate Monday/Wednesday Session, Classes Begin, Attendance Verification must be completed on the first class meeting day
June 12	Minimester I (Term A), Last Day of Classes
June 13	Minimester I (Term A), Final exams
June 17	Minimester II (Term B), Classes begin; Attendance Verification must be completed on the first class meeting day
June 17-19	Minimester II (Term B), Drop/Add
June 18	College of Public Health Graduate Evening Tuesday/Thursday Session, Last Day of Classes
June 19	College of Public Health Graduate Evening Monday/Wednesday Session, Last Day of Classes
June 20	College of Public Health Graduate Evening Session, Final exams for Tuesday/Thursday
June 24	College of Public Health Graduate Evening Session, Final exams for Monday/Wednesday
July 4	Independence Day Holiday – Administrative offices closed – No classes
July 8	College of Education Graduate Monday/Wednesday Session, Last Day of Classes
July 9	College of Education Graduate Tuesday/Thursday Session, Last Day of Classes
July 10	Long Term, Health Professions Term, Last Day of Classes
July 10	College of Education Graduate Session, Monday/Wednesday, Final exams
July 11	College of Education Graduate Session, Tuesday/Thursday, Final exams
July 11-12	Long Term, Health Professions Term, Final exams
July 17	Minimester II (Term B), Last Day of Classes
July 18	Minimester II (Term B), Final Exams

University Housing

University Housing at Georgia Southern University operates ten housing units providing a living-learning environment for approximately 5,700 students and offering a variety of facilities, services, and programs on the Statesboro and Armstrong campuses. Georgia Southern University strives to provide a positive environment conducive to the development and academic pursuits of its residents. Residence hall living provides social interaction and events to heighten a student's sense of belonging, understanding of others, and how to live with others in a common space. Included in learning experiences are floor meetings, social events, programs on life skills, communication and conflict management,

wellness topics that support academic success and understanding others, leadership positions in hall government, and a completion of a roommate agreement. These experiences provide students the opportunity to grow, achieve, find autonomy, and practice decision-making. With a staff of more than 150 full-time and student employees, University Housing is committed to assisting students in making a smooth transition to college life.

Applying for Campus Housing

Only students accepted for admission to Georgia Southern University may apply for campus housing. Housing information will be emailed to students using the email address on file with the Office of Admissions after notification of admission acceptance. The housing application is available online through the My.GeorgiaSouthern.edu (<https://my.georgiasouthern.edu/>) portal.

Rates

Housing rates vary based on the type of facility. Once rates have been approved by the Board of Regents, a complete listing of housing fees will be provided to applicants or may be viewed at auxiliary.georgiasouthern.edu/housing/rates-2/ (<http://auxiliary.georgiasouthern.edu/housing/rates-2/>).

Questions pertaining to student housing should be directed to:

University Housing
Post Office Box 8102
Georgia Southern University
Statesboro, GA 30460-8102
(912) 478-5406
FAX: (912) 478-1148
housing@georgiasouthern.edu
auxiliary.georgiasouthern.edu/housing (<http://auxiliary.georgiasouthern.edu/housing/>)

First Year Live in On-Campus Housing Requirements/Eligibility

To be eligible to live in University Housing, one must be enrolled at Georgia Southern University and maintain a minimum of nine credit hours per semester as an undergraduate student. First year students, with some exceptions, are required to live in On-Campus housing. For detailed information about this policy, go to auxiliary.georgiasouthern.edu/housing/prospective/ for guidelines and exceptions.

Graduate Student On-Campus Housing

Graduate students are eligible to apply for any upper-class space available. Currently we have no housing that is restricted to just graduate students. Graduate students who are seeking on-campus housing should contact the Housing Office or visit the Housing Office web site at auxiliary.georgiasouthern.edu/housing (<http://auxiliary.georgiasouthern.edu/housing/>).

Communities in the Residence Halls

Living in a residence hall means being part of a residential community focused on your academic success at Georgia Southern University. Each of the residence halls offer different communities based upon the students living there, the nature of the building and sometimes the specialized programs or floors that are based around themes, academic programs or other learning initiatives. Each year, University Housing, in partnership with other campus offices, colleges, and faculty members, provides support to the students living in our residential communities in different ways. On campus housing is available on the Statesboro and Armstrong Campuses. Housing is not available on the Liberty Campus.

More information about the different community options each year is available on the housing website at auxiliary.georgiasouthern.edu/housing (<http://auxiliary.georgiasouthern.edu/housing/>).

Questions pertaining to student housing should be directed to:

University Housing
Post Office Box 8102
Georgia Southern University Statesboro, GA 30460-8102
(912) 478-5406
FAX: (912) 478-1148
housing@georgiasouthern.edu
auxiliary.georgiasouthern.edu/housing (<http://auxiliary.georgiasouthern.edu/housing/>)

Occupancy Periods

Students may occupy their assigned space from the date designated as the official opening of campus housing to the date designated as the end of the semester. Campus housing is closed between academic sessions. Housing is not guaranteed during academic break periods. Please refer to the housing website for additional information.

Removal from Housing

Students can be removed from Housing for the following reasons: conduct and behavioral reasons, non-enrollment, nonpayment of tuition, University fees, housing, or contract meal charges.

University Mission

Mission Statement

At Georgia Southern University, our learner-centered culture prepares us to think, lead, teach, and serve. We value collaboration, academic excellence, discovery and innovation, integrity, openness and inclusion, and sustainability. We promote talent and economic development to enhance quality of life through scholarly pursuits, cultural enrichment, student life, and community engagement across distinctive campuses. Our success is measured by the global impact of our students, faculty, staff, and alumni.

University Vision

People. Purpose. Action: Growing ourselves to grow others.

Values

Collaboration: Georgia Southern University embraces shared governance, teamwork, and a cooperative spirit that shapes our engagement with students, faculty, staff and communities.

Academic Excellence: Georgia Southern University academically challenges students, providing them with the knowledge, experiences, and support they need to develop into productive and responsible citizens.

Discovery and Innovation: Georgia Southern University promotes environments and technologies that encourage and facilitate creative, problem-solving collaborations among students, faculty, staff, and community partners.

Integrity: Georgia Southern University creates a caring, respectful environment that is deeply committed to ethical decision-making in the spirit of collegiality.

Openness and Inclusion: Georgia Southern University values the diversity of all people, communities, and disciplines with an unwavering commitment to equity and inclusion.

Sustainability: Georgia Southern University is a conscientious steward of resources and supports the well-being of students, faculty, staff, and communities.

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Jack N. Averitt College of Graduate Studies

The Jack N. Averitt College of Graduate Studies is the only academic unit at Georgia Southern University whose sole concern and primary advocacy is graduate education. The Jack N. Averitt College of Graduate Studies provides institutional oversight for more than 100 graduate curricula programs established across eight academic colleges, with nearly 3200 registered graduate students each semester. These programs span the breadth of graduate education from practice-oriented master's programs that prepare students for leadership roles in a wide variety of professional settings to research-focused doctoral programs that develop the next generation of scholars. The Jack N. Averitt College of Graduate Studies works closely with the Faculty Senate Graduate Committee, the deans, and graduate faculties of the eight academic colleges and external accrediting organizations to ensure excellence in all aspects of the graduate experience. The Jack N. Averitt College of Graduate Studies also helps the University maintain a culture of collegiality and ethical behavior through its dedication to fairness and integrity. In addition to the Colleges, several other departments or agencies within Georgia Southern University enhance the academic life of the University.

Message from the Dean

The mission of the Jack N. Averitt College of Graduate Studies is to develop, promote and sustain graduate programs of the highest quality at Georgia Southern University. The College of Graduate Studies seeks to support graduate students and graduate programs at the highest level, to provide a foundation for university graduate program growth and development, and to advance excellence in research and scholarly activities associated with graduate education.

The namesake of the College, Dr. Jack N. Averitt, was instrumental in inaugurating graduate education in South Georgia and served the Institution as a visionary faculty member and Dean from 1945 to 1979. Dr. Averitt organized Georgia Southern University's first graduate programs with off-campus centers and served as the first Graduate Dean from 1969 until his retirement. A Paul Harris Fellow and Rotary International Foundation Trustee, Dr. Averitt further broadened the University's horizons as Director of the campus Rotary Language Institute for international students. In 1998, the Graduate College was named the Jack N. Averitt

College of Graduate Studies in honor of Dr. Averitt's many contributions to the Institution and to the development and support of graduate studies.

To this day, the Jack N. Averitt College of Graduate Studies proudly subscribes to the Rotary's core value of "Service Above Self," as the College continues to diligently serve the many faculty, staff, and students who encompass the graduate education enterprise at Georgia Southern, supporting more than 100 degree majors and programs offered to more than 3200 graduate students. Working independently and collaboratively, Georgia Southern graduate faculty members offer committed graduate student unlimited opportunities for development. The University's facilities provide outstanding opportunities for distinguished careers in the science and mathematics, public health, health and human sciences, nursing, engineering and information technology, the arts and social sciences, business, and education.

This Graduate Catalog provides an overview of the many academic colleges and graduate programs across campuses, as well as course descriptions. For additional information, we invite you to visit our web page at <http://cogs.georgiasouthern.edu/>, and encourage you to become well acquainted with your graduate program, the graduate program directors, and your mentors and advisors within your program.

Ashley Walker Colquitt, Ph.D.
Dean, Jack N. Averitt College of Graduate Studies

Directory

Jack N. Averitt College of Graduate Studies

	Phone	Building	Room
Jack N. Averitt College of Graduate Studies			
Dr. Ashley D. Walker, Dean	912-478-2647	Veazey Hall	1012B
Dr. Checo Colón-Gaud, Associate Dean	912-478-8695	Veazey Hall	1013B
Audie Graham, Executive Assistant	912-478-0851	Veazey Hall	1012
Randi Sykora, Administrative Specialist, Student Services	912-478-7579	Armstrong Center	130
Mary Jernigan, Administrative Specialist, Student Services	912-478-2647	Veazey Hall	1013C
Wendy Sikora, Administrative Specialist, Student Services	912-478-1756	Veazey Hall	1013A
Graduate Admissions			
Megan Murray, Recruitment Coordinator	912-478-2302	Veazey Hall	1012A
Naronda Wright, Graduate Admissions Specialist	912-478-8626	Veazey Hall	1014B

Caroline James, Graduate Admissions Specialist	912-478-5680	Veazey Hall	1014C
Sara Emily Ridgway-Jones, Graduate Admissions Specialist	912-478-5678	Veazey Hall	1014A

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Graduate Policies and Procedures

The general academic regulations of the University that apply to graduate degrees and certificate programs are developed by the Faculty Senate Graduate Committee and administered by the College of Graduate Studies (COGS). Under this general regulatory structure, each program is locally administered by an academic unit within one of the eight colleges of the University. Although an academic unit may develop local regulations for a specific program under its control, the local regulations must be consistent with the general regulations and are, therefore, subject to review and approval by the Faculty Senate Graduate Committee. It is the responsibility of the Graduate Faculty and each graduate student to become thoroughly familiar with all regulations that govern the graduate program in which they participate.

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Academic Common Market - Graduate

Students from a number of states may be eligible for an out-of-state fee waiver based upon the Academic Common Market (https://www.usg.edu/divisions/academic_common_market/) agreement that Georgia shares with these participating states. If a student majors in disciplines at Georgia Southern University that are not available in their home states, they may be eligible for the waiver.

Academic Intervention Policy

A graduate student who is on probation with an academic program, or has just been reinstated, will be placed on academic intervention until the student is no longer on probation. While on academic intervention, the student must complete an Academic Improvement Plan (AIP) under guidance of an assigned university official. The AIP is developed by the student and university official and may include, but is not limited to, participation in workshops, assessments, and progress meetings. The student's progress on the AIP will guide the academic program when making decisions on academic exclusion or appeal for reinstatement.

Questions regarding requirements for the AIP should be directed to the [Academic Success Center](http://academics.georgiasouthern.edu/success/) (<http://academics.georgiasouthern.edu/success/>).

Academic Standing Policy

Academic Performance

Every graduate student must meet all the academic performance requirements as set forth by the program and the College of Graduate Studies to be in good standing.

Graduate Required Academic Standing

Graduate students must maintain an institutional minimum cumulative graduate GPA of 3.0 or higher, with some programs having higher requirements, in the graduate program on all graduate work and in the Program of Study to graduate. Students should check with their program and/or program director to see if the program has different policies related to academic standing.

Graduate students are ineligible to graduate with grades of "I" or "IP" on their graduate academic record.

Choice of Graduate Catalog Requirements

A student enrolled in a graduate degree or certificate program may choose to meet the requirements for that program as defined in any annual edition of the graduate catalog in effect for the semester the student was admitted to and enrolled in the program. The program requirements so specified will be used to evaluate the Program of Study and in the final degree or certificate program audit.

Academic Requirements Adjustment

Should program academic requirements change after a student is admitted to and enrolls in the program, the student may opt to change to the new program requirements. However, the student may not mix old and new requirements.

Earning a Duplicate Degree

A student with a master's, education specialist, or doctorate earned from GSU or another institution may earn the same degree in the same field or in a different field at Georgia Southern University. The rules governing transfer credit for the first degree will apply.

Right of Appeal

You have the right to appeal any academic policy or requirement if either of the following conditions is present:

- extenuating circumstances make it impossible for you to comply with the policy or requirement, or
- an undue hardship would result from a strict application of interpretation of the policy or requirement.

Please note, however, that extenuating circumstances must be beyond your control and that undue hardship must be a condition far more serious than simple inconvenience. Documentation will be required and the timeliness of the appeal will be taken into consideration.

To appeal an academic policy or regulation (except a change of grade appeal) the student must complete and submit the online web based appeal form at Graduate Student Academic Appeal (<http://cogs.georgiasouthern.edu/student/academicappeal/>). Information regarding required documents to support an appeal for reinstatement is found at that website. A student may attach document files to the appeal form. Appellants may track the status of their appeal through the online website.

Academic Appeal Procedures

The responsibility of the College of Graduate Studies is to review an academic appeal for procedural fairness and to maintain and protect the rights of the graduate students, graduate faculty, and institutional policy. Within the limits set by faculty and administrative policy, members of the graduate faculty and graduate administrators act in good faith within the area of their academic expertise, provided their decisions are consistent with general policies established by the College of Graduate Studies and the Graduate Committee or its representative bodies. Graduate programs may utilize their own program, department or college-level process to consider an appeal and other measures required to assess the circumstances of a student's request for an appeal. In any event, the appeal process must not conflict with the College of Graduate Studies Policy on Academic Appeals.

Subject to these limitations, the College of Graduate Studies will assume that actions taken by the graduate faculty of the program or department concerning course requirements, graduation requirements, and similar matters are final and binding with all parties concerned. Only if it is found or determined by the College of Graduate Studies that the department, program, or academic college did not follow documented procedures, or that the student's appeal did not have a fair review, or that there is evidence on the part of the faculty which may be perceived to have materially affected the academic decision, will a decision imposed by the academic unit be subject to reversal by the College of Graduate Studies.

Student Appeal Steps

Step 1

Graduate students wishing to appeal must complete and submit their appeal online through the Graduate Student Academic Appeal (<http://cogs.georgiasouthern.edu/student/academicappeal/>) portal. The appeal will be directed to the student's graduate program director who must review and take action on the appeal by indicating his/her appeal decision at the appeal portal. In some instances, the appeal may then be forwarded to the Department Chair and then the Dean of the relevant College for review. Normally, the Program Director's decision will be reviewed by

the Dean of Graduate Studies or his/her delegate acting on behalf of the Dean. A favorable appeal decision by the Program Director will indicate approval of the appeal unless the decision is determined to be counter to COGS policy. If determined to be counter to COGS policy, the Dean of Graduate Studies will consult with the Program Director regarding the best action to be taken on the appeal. The student would then be informed of the appeal decision by the Dean of Graduate Studies. The student may review the Program Director's appeal decision at the web Appeal Portal.

Step 2

If the Program Director's decision is not acceptable to the student, the student may choose to appeal the Program Director's decision to the Department Chairperson after notification of the Program Director's appeal decision. The student's appeal to the Department Chair must contain:

1. an explanation specifying the points on which the student disagrees with the program director's decision; and
2. all evidence supporting the student's perspective.

The Department Chair's decision will be recorded on the web Appeal Portal.

Step 3

If the student does not accept the appeal decision by the Department Chair, the student may elect to appeal to the next appeal level. To do so, the student must direct the appeal to the Academic College Dean. The student's appeal to the Academic College Dean must contain:

1. an explanation specifying the points on which the student disagrees with the department chair's decision; and
2. all evidence supporting the student's perspective.

The Academic College Dean will review the appeal submit his/her decision. The Academic College Dean may review the decisions of the Department Chair and the Program Director and/or discuss the appeal with the Department Chair and/or Program Director prior to rendering the decision.

Step 4

If the student does not accept the decision of the Academic College Dean, the student may appeal the decision to the Dean of Graduate Studies. The student's appeal to the Dean of Graduate Studies must contain:

1. an explanation specifying the points on which the student disagrees with the Academic Dean's decision; and
2. all evidence supporting the student's perspective.

The Dean of Graduate Studies may charge a subcommittee of the Graduate Committee (hereafter referred to as the Appeals Subcommittee) to review the student's appeal. The Appeals Subcommittee will consist of a five (5) member ad hoc panel drawn from members of the Graduate Committee. The Graduate Student Organization member of the Graduate Committee shall be an ex-officio member of the Appeals Subcommittee. In accepting to serve as a member of the Appeals Subcommittee, each member of the subcommittee shall declare that no actual or perceived conflict of interest exists between the member and any party involved in the appeal.

The Appeals Subcommittee will convene **within fifteen (15) working days** of the request of the Dean of Graduate Studies. If the appeal is submitted to the Dean of Graduate Studies during the summer, the subcommittee's review may, at the discretion of the Dean of Graduate Studies, be delayed until after the beginning of the academic year. The subcommittee will review all available documentation, written responses to prior decisions, and convene interviews with individuals, necessary to determine whether the action(s) being appealed by the student were arbitrary, capricious, or contrary to University policy. A recommendation will be made **within fifteen (15) working days** after

the Appeals Subcommittee's review of the materials or following the conclusion of the Appeals Subcommittee meeting(s), whichever is later. This recommendation shall be transmitted to the Dean of Graduate Studies. The Dean of Graduate Studies shall render a decision following receipt of the Appeals Subcommittee recommendation. The decision of the Dean of Graduate Studies will be recorded in the web Appeals database for viewing by the student. The Dean of Graduate Studies may elect to forward notice of the decision to others who have been involved in the appeal process to this stage.

Step 5

If the student does not accept the decision of the Dean of Graduate Studies, the student may make a final appeal to the Provost and Vice President for Academic Affairs (hereinafter Provost). The student's appeal to the Provost must contain:

1. an explanation specifying the points on which the student disagrees with the Appeals Subcommittee's decision (step 4 above); and
2. all evidence supporting student's perspective.

The Provost shall review all materials and documentation of the prior appeals and shall render a decision.

All appeal decisions and recommended actions by the Provost are considered actionable and final.

Border County Fee Waiver

Graduate students who are legal residents of an out-of-state county bordering a Georgia county in which the reporting institution or a Board-approved external center of the University System is located may apply for a waiver of non-resident (out-of-state) tuition assessment. Georgia Southern University graduate students who live in an out-of-state county that borders Chatham County in Georgia, (Jasper and Beaufort, SC) and attend classes at the Armstrong Campus in Savannah are eligible for this waiver.

Continuous Enrollment Requirements

The College of Graduate Studies Continuous Enrollment policy states that: *"All thesis or dissertation students who have registered at least once for courses titled thesis or dissertation must be continuously enrolled every semester thereafter, including the semester of graduation. Summer registration is not required unless summer is the graduation semester."* Check with your major advisor to see if your college has a different, or additional, continuous enrollment requirement(s) that apply.

- A grade of "IP" will be recorded for all thesis or dissertation credit hour work in progress, and will automatically be recorded each semester the student is enrolled.
- The grade of "S" or "U" must be recorded for all thesis or dissertation credit hour when completed.
- The advisor and/or major professor will report a final thesis or dissertation grade of "S" or "U". Any reported grade other than "S" or "U" will be changed to an "S" or "U" grade according to the following: REPORTED GRADE OF "A", "B", "C" = "S", "D", "F" = "U"
- Upon completion of the thesis or dissertation requirements, final grades for preceding semester(s) will be changed to the appropriate grade.

Should a student not register each semester as required by the continuous enrollment policy, the student will be required to register in thesis or dissertation credit and pay tuition and fees for the missed registration

semesters at the beginning of the semester the student resumes his/her study providing the student is eligible to return and resume registration.

A student who has been approved for a medical or a non-medical leave of absence is not required to be registered while under the approved leave period.

Correspondence Study

Credit taken by correspondence study or for continuing education units (CEUs) or as experiential learning or extension credit are not permitted to be counted toward degree program requirements.

Degree Requirements

To be eligible to be awarded the degree, the student must successfully complete all degree requirements including the minimum number of credit hours required for the degree, successfully pass the comprehensive or terminal examination (if required), successfully defend the thesis (if required), have an approved program study on file in the College of Graduate Studies, must have applied for graduation by the graduation application deadline, and have satisfied all non-academic requirements cleared by the Office of the Registrar.

To be awarded a degree, the student

1. must not be on academic probation;
2. must defer to the individual program for cumulative graduate grade point average (GPA) requirements;
3. must have an approved program of study or DegreeWorks audit on file in the College of Graduate Studies;
4. must meet all the requirements of the College of Graduate Studies and the student's academic program area;
5. have no grades of "I" or "IP" on the graduate transcript; and
6. if enrolled in a program that requires a final comprehensive examination, exit assessment, thesis, and/or residency, satisfy requirements stipulated by the program.

Degree Time Limit

Master's and Education Specialist Programs

The time limit to complete a master's and/or Education Specialist degree is seven years. Courses counting toward the degree may not have been taken more than seven (7) years prior to the degree completion date.

Doctoral Programs

The time limit to complete a doctoral degree varies by program. Doctoral students should consult with their respective department/college regarding the time limit for their individual program.

Enrollment in Dual Programs

A graduate student at Georgia Southern University may be enrolled in more than one Master's or more than one Education Specialist program at the same time providing they have met all admission requirements for each program and have been recommended for admission in each program. All requirements for each program must be met. Students should consult with each program area to determine program requirements.

Exclusion

A graduate student will be denied continued enrollment at Georgia Southern University for any of the following reasons:

- failure to meet the conditions of academic probation;
- failure to meet the conditions of Provisional Admission;
- failure to meet specified academic requirements as set by the department offering the program;
- failure to comply with the Academic Dishonesty section of the Student Conduct Code; and/or
- non-degree admission to the same major from which the student was excluded is not permitted.

Full-Time/Half-Time Enrollment

Full-Time enrollment Fall/Spring Semester is nine (9) credit hours for all programs **except**:

Program	Credits
Master of Science in Nursing	5
Doctor of Nursing Practice	5
Doctor of Psychology	1 during Full-Time Internship
Dietetic Internship Certificate	2 during NTFS 7790 Final Spring Semester

Full-Time enrollment for Summer Semester is six (6) credit hours for all programs **except**:

Program	Credits
Master of Science in Nursing	5
Doctor of Nursing Practice	5

Half-Time enrollment Fall/Spring Semester is five (5) credit hours for all programs **except**:

Program	Credits
Master of Science in Nursing	3
Doctor of Nursing Practice	3

Half-Time enrollment Summer Semester is three (3) credit hours for all programs.

Course Load

The standard maximum credit course load per semester is:

Semester	Credits
Fall / Spring	12
Summer	12
Minimester I (Term A)	6
Minimester II (Term B)	6
Long Term	9

Simultaneous Enrollment in More Than One Graduate Program

A graduate student at Georgia Southern University may be enrolled in more than one Master's or more than one Education Specialist program at the same time providing they have met all admission requirements for each program and have been recommended for admission in each program. All requirements for each program must be met. A student is permitted to count up to 9 credit hours from one previously earned master's degree or education specialist degree, toward the requirements

of the second Master's or Education Specialist providing the courses are approved and recommended by the student's advisor for the second program.

Grade Requirements

Graded Work

For graduate credit hour, the grade in a course must be a minimum grade of "C." To be awarded a graduate degree, the student:

1. must not be on probation;
2. must have a cumulative GPA of 3.0 or higher on all graduate course work attempted and on course work on the program of study;
3. must meet all the requirements of the College of Graduate Studies, the student's academic program area, and the student's supervisory committee; and
4. must be enrolled during the semester in which the degree requirements are completed if completing a thesis.

A student may not repeat any course for credit for which he/she has already received a minimum grade of "C" unless specifically permitted by the degree program department policy.

Satisfactory/Unsatisfactory Graded Work

Certain courses including thesis and internship credit hour may be graded on a satisfactory/unsatisfactory (S/U) basis. A grade of "S" indicates that credit hour has been given for completion of the credit hour and the credit hour may count toward degree requirements. A grade of "U" indicates unsatisfactory progress in the course and credit hour may not be counted toward degree requirements. Satisfactory/Unsatisfactory graded work is not computed in the grade point average.

In-Progress (IP) Grade

"IP" indicates that credit has not been given in courses that require an "IP" continuation of work beyond the semester for which the student signed up for the course. The use of these symbols is approved for dissertation and thesis credit and project courses. With the exception of Learning Support courses, these symbols cannot be used for other courses. These symbols cannot be substituted for an "I".

Incomplete Policy

An incomplete grade ("I") indicates that the student was doing satisfactory work but was unable to meet the full requirements of the course due to non-academic reasons. It is the student's responsibility to contact the instructor to complete the remaining requirements of the course. The instructor is responsible for keeping a record of all "I" grades assigned and the justification as to why the professor assigned the student the "I" grade. An "I" should be removed during the following semester, but the instructor may allow the student up to one calendar year to remove the incomplete. The student must complete the requirements of the instructor who assigned the incomplete and should not re-register for the course. If the "I" is not satisfactorily removed by the end of the third semester (one calendar year), it will be changed to an "F" by the Office of the Registrar.

Graduate Academic Advisement

Philosophy

Georgia Southern University accepts the philosophy that faculty members should be involved in graduate student advisement whenever possible since they provide a necessary academic orientation to the process. It is important that the students have as much direct contact with faculty

as possible, and advisement is a particularly individualized avenue of communication.

Definition of the Role of Graduate Advisors

Graduate advisors serve as resource persons, providing information about University graduate programs and institutional requirements. Advisors also serve as a link between students and the University community and refer them to areas of assistance. Program Directors also mentor students in their development of self-direction and career pathways.

Guidance for Graduate Students

Upon acceptance in a graduate program, a graduate student will come under the guidance of an advisor at the time of admission. A thesis, supervisory, or dissertation committee will be established by the student in consultation with the advisor in those programs in which a thesis or dissertation is required. Proper guidance of graduate students is of primary importance and a major responsibility of the graduate program directors and the graduate faculty.

Advisor

When the student is notified of admission to the College of Graduate Studies, a graduate faculty member in the student's major field will be assigned as the advisor. A graduate student may request a change in advisor by contacting the Graduate Program Director of the program in writing. If the request is granted, the student will be notified in writing (email).

Graduate student advisors will assist in:

- helping the student plan a program of study in keeping with the student's field and goals;
- approving course selection;
- reviewing and endorsing the Program of Study.

Students who are initially uncertain about their graduate program of study and graduate transient students may be advised by the College of Graduate Studies. International graduate students will be advised by a faculty advisor in their academic program. Graduate students with physical or developmental disabilities are encouraged to avail themselves of the services of the Student Accessibility Resource Center (SARC).

Graduate Courses

All courses carrying graduate credit at Georgia Southern University numbered 5000G and above are open to graduate students. Courses 6000 through 9999 are open to graduate students ONLY. Courses numbered 9000-9999 and above are open to doctoral students ONLY. Graduate courses numbered 5000G-5999G may not be counted toward doctoral degree program requirements.

At least 50% of the courses applicable to earn a degree must be courses in which enrollment is restricted to graduate students.

A maximum of 6 credits earned in "Independent Study" may apply toward a graduate degree, with the approval of the advisor, provided the student is classified under Regular admission when the credits were taken.

Dual-Listed Courses

A graduate student enrolled in a 5000 level course with a "G" suffix must complete all work required of students earning undergraduate credit plus substantial work at the graduate level to earn graduate credit for the course. Graduate students must enroll in the course section with the "G" suffix. Graduate students enrolling in the course section without the "G"

suffix will have enrolled in the undergraduate section and will not receive graduate credit for the course.

Repeating a Course

Graduate courses in which a grade of "D" or "F" was earned will not count toward degree requirements and must be repeated if required in the degree program. A graduate student may not repeat any course for credit for which he/she has already received a minimum grade of "C" unless specifically permitted by the degree program policy. All Georgia Southern University graduate grades and credits attempted count toward the institutional cumulative GPA. This includes repeated courses.

Graduate Final Comprehensive Examination

A final oral examination or a comprehensive written examination or both may be required for a degree. The examination will be administered after the student has completed the program of study and other requirements or in the semester in which the candidate intends to complete them. Examinations may take the form of a defense of the thesis, an interpretation of other scholarly work, a portfolio of the student's work, or a test of the student's understanding of the field. The academic unit determines the format of the examination and, along with the supervisory committee for programs requiring a thesis, is responsible for its administration. The Department Chair, Graduate Program Director, or major professor is responsible for reporting the results of the examination and/or thesis defense to the College of Graduate Studies on the Report on Comprehensive Examination/Thesis Defense Form. Normally, final oral examinations will be given on the Statesboro campus. Exceptions can be made if requested by the student, recommended by the supervisory committee, and approved by the Department Chair or Graduate Program Director, and the College of Graduate Studies. In the case of an examination in which the participants are not all in the same location, any technology used to conduct the examination must support simultaneous oral interaction between the student and all members of the examining committee. Copies of the questions for all final written examinations must be filed with the academic unit. In the case of a candidate writing a thesis, the examination cannot be scheduled until the thesis committee certifies that a satisfactory copy of the thesis has been presented. Final examinations must be scheduled by the academic calendar deadlines for examinations and/or theses defenses and final submissions for the semester during which graduation is expected.

Inactive Status

A student who does not enroll for one semester is considered inactive and must have their enrollment eligibility updated through the Graduate Admissions Office to be eligible to re-enroll in the same program in subsequent semesters. A student who does not matriculate for three or more consecutive semesters must re-apply to (and be accepted into) a graduate program before being considered for re-entry by the College of Graduate Studies. In order to be allowed to resume graduate studies, the student must meet all requirements for entry in force at the time of the new application. Inactive students who seek to regain active status will not, however, be required to recreate materials submitted with their original applications and held in their files by the College of Graduate Studies. If allowed to regain active status, the formerly inactive student will be subject to all requirements in force in his or her graduate program and in the College of Graduate Studies at the time the student returns to active status. Students re-accepted into the program and who are at the dissertation writing phase of their program will be required to pay for any and all missed semesters under the continuous enrollment policy.

Independent Study

A maximum of six (6) credits earned in "Independent Study" may apply toward a graduate degree, providing the student was classified under "Regular" admission at the time the Independent Study courses were taken and providing the student's advisor recommends the courses as part of the program of study.

Internal Credit Sharing Between Graduate Degrees

A graduate student is permitted to count **up to 9 credit hours** from one previously earned Master's degree or Education Specialist degree, toward the requirements of the second Master's or Education Specialist degree providing the courses are approved and recommended by the student's advisor for the second program. Shared hours can only be shared one time.

***Non-course based credit might not be transferable based on individual program requirements.*

Non-Medical Leave of Absence

A graduate student may request a non-medical Leave of Absence from the degree program. To request a Leave of Absence, one must complete the General Policy Appeal Form (<http://cogs.georgiasouthern.edu/students/forms/graduate-student-academic-appeal/>). A Leave of Absence may be granted for up to one year. Registration is not required during the approved Leave of Absence period and the time to Degree completion will be suspended during the approved Leave of Absence period.

Off-Campus Research

Thesis/Dissertation committees must take adequate steps to ensure appropriate guidance of off-campus research. As a minimal requirement, the student must submit to the committee a well-formulated research plan, including objectives and methodology, and the committee must review and approve the plan before the student departs for the research site and indicate approval on the program of study. In addition, the committee may require the following.

1. The major professor and/or a competent local authority who can reliably guide the student provide continuing on-site supervision.
2. The student provides the thesis/dissertation committee with frequent, periodic estimates of performance and progress. The committee may also require that these be authenticated by a competent local authority.
3. The major professor carries out local inspections of the student's activities.

Regardless of the location at which the research is conducted, the thesis/dissertation defense will normally be given on the Statesboro campus. Exceptions can be made if requested by the student, recommended by the thesis/dissertation committee, and approved by the Graduate Program Director, School or Department Chair, and the College of Graduate Studies. In the case of a defense or examination in which the participants are not all in the same location, any technology used to conduct the examination must support simultaneous oral interaction between the student and all members of the committee. When unusual circumstances arise in the guidance of off-campus students, thesis/dissertation committees should consult with the College of Graduate Studies.

Research conducted outside an academic program cannot be accepted for credit as part of a program of study.

Prior Learning Assessment

Prior Learning Assessment Policy

Georgia Southern University graduate programs may offer students an opportunity to obtain select graduate credit by Prior Learning Assessment (PLA). For programs opting-in, PLA is the means by which university credit can be awarded for learning gains resulting from experiences outside of the traditional university milieu. A maximum of 9 credit hours may be earned via PLA, with the total number of PLA credit hours earned and credit hours transferred from another institution not to exceed 9 credit hours.

A student's eligibility for PLA will be determined by the department chair in collaboration with the subject area program faculty and approved by the College of Graduate Studies. The department will determine the number of semester hours of graduate credit for which a student may request eligibility. A student may be deemed eligible for PLA before or within the first semester of admission to one of the University's graduate programs. Note: Eligibility for PLA does not guarantee program admission. Program admission and eligibility for PLA are separate and distinct decisions.

Graduate credit earned by PLA will be considered resident credit. A grade of "B" or better on any and all assessments is required to receive graduate credit. Graduate credit earned by PLA will be noted as "K" on a student's Georgia Southern University transcript. Program faculty will determine the appropriateness of accepting PLA for their individual degree programs. Program faculty may also specify courses to be excluded or included for possible PLA credit.

Prior Learning Assessment Procedures

The procedure for seeking PLA credit is as follows:

1. Student petitions the department chair of the subject area before or within the first semester of program admission for an opportunity to demonstrate competence in the learning outcomes associated with a particular course or set of courses listed in the University's Graduate Catalog.
2. The department chair or his/her designee will provide guidance to the student regarding how competence must be demonstrated, the acceptable timeframe for demonstrating competence, and the process of review (previously determined by department chairs in conjunction with program faculty members).
3. The student submits evidence of competence in the form and within the timeframe acceptable to the faculty of the program from which credit is sought. The evidence appropriate for each course under consideration for PLA will be determined by program faculty. Options include but are not limited to portfolios, exams, digital badges, or other means consistent with the learning outcomes of the course or courses at the program discretion.
4. The program faculty members will determine acceptable dates of evidence submission for each course or set of courses for which credit is sought via PLA.
5. The student will receive notification of performance results within a timeframe established by the program.
6. Students may appeal PLA decisions by following the procedures established by the university grade appeal process.

Probation

A graduate student whose cumulative graduate grade point average falls below the minimum program requirement for academic good standing upon the completion of nine (9) credits will be placed on academic probation. If the cumulative GPA remains below that required for academic good standing after the completion of a maximum of nine (9) additional credits, the student will be excluded from the program and is ineligible to

continue graduate work. In certain departments, a student will be excluded from the degree program upon earning more than two (2) grades of "C" or below. See Appeals Process (p. 32). Only credit earned in graduate courses at Georgia Southern University may be used to repair a GPA deficiency.

Removal from Academic Probation

A graduate student placed on academic probation will be reinstated to good standing providing the cumulative graduate GPA is raised to the program minimum requirement for academic good standing upon completing a maximum of nine (9) credits following the effective probation semester.

Program of Study

Every degree seeking student who began the degree program prior to Fall 2010 must file with the College of Graduate Studies a Program of Study, a formal list of the courses the student intends to take to fulfill the requirements of the degree. The program of study should consist solely of courses directly related to the degree. Undergraduate courses may not be included on the Program of Study. Students in a degree program in which the requirements are the same as those under the 2010 - 2011 catalog should use DegreeWorks to document the degree completion. DegreeWorks approval is required by the Advisor as part of the requirements for graduation. A predefined note should be posted on the student's DegreeWorks audit stating approval.

The Program of Study must be submitted by the student and signed by the Advisor, and Graduate Program Director or Department Chair before being submitted to the College of Graduate Studies for final approval. The POS must be submitted to the College of Graduate Studies not later than the end of the semester proceeding the expected graduation semester. Subsequent changes in the program will be submitted on an Amended Program of Study form or by filing a revised Program of Study that is signed by all persons as stated above. A revised Program of Study must be approved by the College of Graduate Studies before graduation.

Records

Student Records

The Office of Graduate Admissions maintains a permanent file for each student who has applied for admission to the College of Graduate Studies. The file will contain the application for admission, official transcripts, test scores, and any correspondence related to that application. Georgia Southern University maintains copies of all files electronically. Original documents are scanned electronically and stored. Once any application document is scanned and indexed to the electronic file, the paper document is destroyed per the procedures approved by the university system.

The Registrar's Office maintains a file of your permanent transcript record and materials that document your transcript record. Your faculty advisor may maintain a file of advising records and correspondence.

Documents received by the Office of Graduate Admissions become the property of the University and are not to be made available for review to the student or third parties.

Transcript Records

The Registrar's Office makes every effort to ensure that transcript records are up-to-date and accurate. You have the right to appeal any information on your transcript that inaccurately reflects your academic history. However, information on a transcript is changed only in extraordinary or extreme circumstances.

If there is an error or omission on your transcript, send a detailed description of the error or omission along with copies of the relevant documents to regrecords@georgiasouthern.edu or

The Office of the Registrar
PO Box 8092
Georgia Southern University
Statesboro, Georgia 30460, U.S.A.

Registration Policies

After you have been admitted as a graduate student, you will be assigned an advisor who can assist you in selecting appropriate courses. Prior to course registration, all students should and are encouraged to communicate with their advisor.

Registration is held at the beginning of each semester, including summer. The early registration period for each semester is posted on the university academic calendar. Students are encouraged to register early.

All registration may be completed on-line through the MyGeorgiaSouthern (<https://my.georgiasouthern.edu/>) portal on the Georgia Southern University home page. To register on-line, you must have current admission eligibility and must have a Registration Access Number (RAN) for each semester. Graduate students may access their RAN through their MyGeorgiaSouthern (<https://my.georgiasouthern.edu/>) homepage.

Certain programs may not permit on-line registration or may require that the student contact his/her advisor prior to on-line registration.

Registration and RANs

Graduate students are allowed to register on Georgia Southern University's web system, WINGS (Web Interactive Network for Georgia Southern), each semester. In WINGS, the student will click on "Student", then "Registration", then click on "Check Your Registration Status, Time Slot and More."

Before any student at Georgia Southern University registers for classes on WINGS, he/she must have a RAN. Graduate students will get their RAN from their MyGeorgiaSouthern (<https://my.georgiasouthern.edu/>) account. Graduate transient students will also get their RAN from their MyGeorgiaSouthern (<https://my.georgiasouthern.edu/>) account.

Registration for Continuing, New and Readmitted Students

Early registration begins on the date stated in the academic calendar at the front of this catalog or the academic calendar at the College of Graduate Studies Website or the Georgia Southern University Office of the Registrar's Website.

To receive credit for a course, a student must be officially registered. Official registration includes registering and paying the appropriate tuition and fees.

Reinstatement Appeal

Students who are academically excluded from a degree program may appeal for reinstatement following exclusion. For detailed information regarding the graduate Academic Appeal procedures refer to the Academic Appeal (p. 32) procedures section of the Catalog. To appeal for reinstatement, the student must complete and submit the online web based Appeal Form. Information regarding required documents to support an appeal for reinstatement is found at the website. A student may attach document files to the appeal form. Applicants may track the status of their appeal through the online website. Students granted reinstatement will be placed on probation, regardless of GPA. Please refer to the Probation

(p. 37) section of the catalog for more information on this academic standing.

Theses and Dissertations

A student completing a program in which a thesis or dissertation is required must undergo a process involving three primary steps on the way to satisfying the thesis or dissertation requirement. These steps must come in proper order, and each subsequent step cannot be undertaken until the student has successfully completed the prior step.

1. The thesis or dissertation is defended by the student before the appropriate program committee.
2. The student makes any modification(s) that may be required by the committee and submits the revised thesis or dissertation to the chair (or Co-chairs) or the committee (or designee) for a final reading approval if required.
3. The student submits the thesis or dissertation to the College of Graduate Studies for format check in the required electronic Thesis and Dissertation (ETD) (URL) style via the ETD web site by the format submission deadline - <http://em.georgiasouthern.edu/registrar/resources/calendars/> (<http://em.georgiasouthern.edu/registrar/resources/calendars/>).

Theses and dissertation students must submit the dissertation in electronic format. The Electronic Thesis and Dissertation (<https://cogs.georgiasouthern.edu/etd-submission-links/>) policies and procedures are discussed in detail on the College of Graduate Studies Website.

Following a successful thesis or dissertation defense, the candidate must make any corrections or changes to the thesis or dissertation document that are required by the defense committee. The student must submit the thesis or dissertation as an electronic file (ETD) required by the College of Graduate Studies for format review by the format review deadline - <http://em.georgiasouthern.edu/registrar/resources/calendars/> (<http://em.georgiasouthern.edu/registrar/%20resources/calendars/>).

Once the format check process is complete, satisfactory documents are sent on to the committee for their revisions and approvals. If more discipline specific format corrections are to be made, the student must make the changes and submit the final corrected electronic version to the College of Graduate Studies by the final submission deadline as posted for the semester. The student should check with his/her thesis or dissertation chair and committee members to determine if the committee chooses to re-review the document before final electronic submission to the College of Graduate Studies.

Thesis, Dissertation (Supervisory) Committees

A supervisory or thesis/dissertation committee is composed of members of the graduate faculty who are approved by the College of Graduate Studies to serve on the committee and charged with the guidance of a student admitted to a specific graduate degree program. The committee must consist of a Chair (or Co-Chairs) and must have at least three voting members, inclusive of the chair. The committee Chair(s) must hold Graduate Faculty Member status and must be endorsed by the academic department in which the degree is housed. Additional voting members may be appointed to the committee, including no more than one non-Georgia Southern faculty, who must hold a terminal degree in their field of study. Non-Georgia Southern faculty must be approved through the College of Graduate Studies before serving as a member on a committee. If there are more than three voting members, there must be greater than 50% Georgia Southern graduate faculty representation. The majority of the committee membership must hold appointments in the academic unit responsible for the program.

Appointment of a Thesis or Dissertation Committee is initiated by the academic unit by submitting the Application for Approval of Thesis Topic and Committee Membership Form for thesis students or the Dissertation Committee Membership Approval Form for doctoral students. The form must include a recommended committee membership based on a reasonable match between student and faculty academic interests. Once the College of Graduate Studies is satisfied with the recommended committee, the College formally approves the committee and provides appropriate notifications. A change in committee membership can be made after initial appointment but only according to the policies and procedures developed by the academic unit and only with the approval of the College of Graduate Studies. The committee membership recommendation form must be submitted to the College of Graduate Studies within two (2) weeks of the academic unit committee recommendation.

Graduate Programs and Requirements

- Certificates and Endorsements (p. 39)
- Master's Programs (p. 39)
 - Accelerated Bachelor's to Master's (p. 40)
 - Foreign Language Requirement (p. 40)
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Certificates and Endorsements

Certificate Programs

A graduate certificate program is limited in scope relative to a graduate degree program but provides an opportunity for advanced study with a particular focus. Successful completion of a graduate certificate program is a structured academic accomplishment that leads to an official notation on the student transcript. A certificate program may be a stand alone accomplishment or may be embedded within a graduate degree program.

Certificate Program Admission Requirements

Certificate program admission requirements are set by the respective Certificate program academic unit. Applicants are required to submit all required application documents by the submission deadline. Graduate students who wish to complete an embedded certificate program are required to submit an additional certificate program application, however, no application fee will be charged.

Certificate Credit Requirements

Certificate program credit requirements depend upon the specific program. To receive credit for certificate program courses, a grade of "C" or better is required. A minimum cumulative grade point average of 3.0 is required in the certificate program.

Simultaneous Enrollment in a Graduate Certificate and Degree Program

Students admitted to a degree program in which the certificate program is embedded are permitted to complete the certificate program. If the certificate program requirements are met prior to the completion of the degree program, the student is eligible to be awarded the Certificate upon the successful completion of the certificate requirements.

Endorsement Programs

A graduate endorsement program is limited in scope relative to a graduate degree program but provides an opportunity for advanced study with a particular focus. Successful completion of a graduate endorsement program is a structured academic accomplishment that leads to an official notation on the student transcript. An endorsement program may be a stand alone accomplishment or may be embedded within a graduate degree program. Upon endorsement program completion, the endorsement may be added to a professional certificate in teaching, service, and leadership fields through the Georgia Professional Standards Commission.

Endorsement Program Admission Requirements

Endorsement program admission requirements are set by the respective Endorsement program academic unit. Applicants are required to submit all required application documents by the submission deadline.

Endorsement Credit Requirements

Endorsement program credit requirements depend upon the specific program. To receive credit for an endorsement program course, a grade of "C" or better is required. A minimum cumulative grade point average of 3.0 is required in the endorsement program.

Simultaneous Enrollment in a Graduate Endorsement and Degree Program

Students admitted to a degree program in which the endorsement program is embedded are permitted to complete the endorsement program.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Master's Programs

Programs leading to a master's degree are very diverse and generally fall into three categories depending on overall emphasis and the nature of the study program.

- **Thesis option:**As part of a degree program, the student will complete a thesis for a minimum number of credit hours as determined by the program.
- **Non-Thesis Option:**The student's degree program will consist of courses and evidence of advanced work, such as term papers, objects

of art, music or designs, as determined by the graduate faculty of the department or school.

- **Internship option:** Students in certain designated degree programs must complete a supervised internship.

Not all master's degree programs offer all these options and a student may not select a plan that has not been approved by the graduate faculty of the program in which he or she is enrolled.

Degree seeking students must demonstrate competency in their study area as determined by the academic program. Competency is demonstrated in one or more of the following ways:

1. pass a final comprehensive and/or oral examination,
 2. present a satisfactory portfolio,
 3. thesis defense, and/or
 4. studio exhibition or recital.
- Accelerated Bachelor's to Master's (p. 40)
 - Foreign Language Requirement (p. 40)
 - Master's Degree Completion Check-List (p. 40)
 - Thesis (p. 40)
 - University System of Georgia Franchise Programs (p. 41)

Accelerated Bachelor's to Master's

The Accelerated Bachelor's Master's (ABM) program provides qualified undergraduate students the opportunity to begin graduate studies in their senior year and to simultaneously satisfy some remaining requirements for the bachelor's degree.

A student must apply and be admitted into this program in the semester preceding the beginning of the ABM program. Students must have completed at least 24 hours of coursework in the discipline or related field of the Master's degree to be eligible. Prospective students should consult the program of study for admission deadlines and admission requirements.

A student may use up to 9 credit hours of graduate-level courses offered within a single degree program in meeting the requirements of both a bachelor's degree and a master's degree. However, there must be at least 150 unique hours between the two programs.

An undergraduate student enrolled in graduate classes is limited to six semester hours of graduate course work per term.

***Admission to an Accelerated Bachelor's Master's degree program is different than Senior Privilege. Please refer to the policy on Senior Privilege (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/graduate-credit-seniors-senior-privilege/>) for more information.*

Foreign Language Requirement

The College of Graduate Studies has no requirement for a language other than English for the master's degree. Individual academic units may establish, with approval of the Faculty Senate Graduate Committee, language requirements for their degree programs and may define the level of competence needed to satisfy those requirements. A grade of "C" or better in the fourth level course of an approved foreign language or passing a foreign language examination administered by the Georgia Southern University Department of World Languages and Cultures will satisfy the foreign language requirement unless otherwise stated by the individual program policy. The foreign language must be approved by the student's advisor. Neither English nor the student's native language (if other than English) may be counted to meet the Foreign Language requirement.

Master's Degree Completion Check-List

Students need to complete the following items:

- Have satisfied the Foreign Language requirement if completing a master's program in which a Foreign Language is required.
- Have accumulated the required number of credits for the degree.
- Have successfully completed all program requirements.
- Have an approved Program of Study on file in the College of Graduate Studies or have completed the program under DegreeWorks.
- Have no grades of "I" or "IP" on the graduate transcript.
- Have a cumulative graduate GPA of at least 3.0.
- Be registered in at least one (1) credit hour if completing a degree program in which a thesis is being completed.
- Take and pass the comprehensive examination (or equivalent in your department) if required for your degree program by the deadline. Your advisor must submit the Report on Comprehensive Examination/Thesis Defense Form to the College of Graduate Studies by the deadline.
- Pass the thesis or internship defense by the deadline if completing a degree program in which a thesis or internship is required.
- Submit the electronic thesis for format review by the College of Graduate Studies by the deadline.
- Submit the final electronic version of the approved thesis to the College of Graduate Studies by the deadline.
- Complete the Institutional Review Board (IRB) termination notification through the Office of Research Services and Sponsored Programs by the deadline.

Thesis

Master's Thesis Committee

Following admission to a masters program, the student in a degree program that requires a thesis confers with the degree program coordinator of the academic program and selects an advisor, or "major professor," from among the graduate faculty who have permission from their department chair to direct a Masters thesis and who are willing to assume the responsibility. Master's thesis committees must be formulated by masters students in masters programs requiring a thesis. In some programs, the chair may be assigned to the student. The committee must consist of a minimum of three members of the Graduate faculty, including the student's major professor, who will serve as Chair of the committee. In some instances, a Co-chair may be part of the committee makeup.

Only faculty holding Member (Full) Graduate Faculty status may serve as the Master's Thesis Committee Chair. If there are more than three members on the committee, there must be greater than 50% GSU faculty representation. The committee may include not more than one voting non-Georgia Southern University faculty. This individual must hold Affiliate Graduate Faculty status at Georgia Southern University, be appointed to the graduate faculty, and be approved by the dean of the College of Graduate Studies. Adjunct faculty can not serve on a Master's Thesis committee.

The student must submit the completed Application for Thesis Title and Committee Member Approval Form (<http://cogs.georgiasouthern.edu/student/forms/>) to the College of Graduate Studies for committee approval and have the non-Georgia Southern committee member complete the online process (<https://w3.georgiasouthern.edu/cogs/externalcommiteemembers/>). The College of Graduate Studies gives final approval for non-Georgia Southern committee members. Changes in the Committee membership must be submitted on the Committee Member

Change (<http://cogs.georgiasouthern.edu/student/forms/>) form and be approved by the College of Graduate Studies.

All members of a student's dissertation committee participate as peers and have the responsibility for planning the program of study, advising the student, and ensuring that the student's master's program is of high quality.

Should some departments have Thesis Committee membership requirements that are more stringent than stated above, the department policy will be adhered to.

Thesis

Candidates who undertake a thesis should schedule their work to allow sufficient time for review by the major professor and the committee and for making any necessary revisions before proceeding to the final examination. With unanimous approval of the committee, a student majoring in Modern Languages may write a thesis in a language other than English, provided that the language is clearly appropriate to the subject matter. If the thesis requires the use of human subjects, animals, or biohazardous materials, the student is required to comply with University policies and procedures. The compliance policies and procedures can be found at <http://research.georgiasouthern.edu/>.

The candidate must provide a copy of the thesis (electronic or hard copy format) to each member of the committee and all members of the committee must certify that they have received acceptable copies of the thesis before a final defense can be scheduled. A copy of the thesis must also be available at the defense. Following a successful final defense, the candidate must submit an electronic copy of the thesis to the College of Graduate Studies Electronic Thesis and Dissertation site for format check by the semester stated deadline. Late submissions will not be accepted. When the format check has been completed, the electronic document is returned to the student. Once the student has made all format corrections and changes, the student should ask his/her major professor and committee if they wish to review the electronic document before the final corrected copy is submitted to the College of Graduate Studies. The student must make all corrections and the electronic document must be in final and acceptable form, incorporating any revisions required by the committee. Information regarding the ETD (<http://academics.georgiasouthern.edu/etd/>) can be found on the COGS web site. The final corrected copy must be submitted and received by the final submission deadline stated in the university academic calendar.

Thesis Continuous Enrollment Requirements

The College of Graduate Studies Continuous Enrollment policy states that *"All thesis students who have registered at least once for courses titled thesis or dissertation must be continuously enrolled every semester thereafter, including the semester of graduation. Summer registration is not required unless summer is the graduation semester."* Check with your major advisor to see if your college has a different, or additional, continuous enrollment requirement(s) that apply.

- A grade of "IP" will be recorded for all thesis or dissertation credit hour work in progress and will automatically be recorded each semester the student is enrolled.
- The grade of "S" or "U" must be recorded for all thesis or dissertation credit hours when completed.
- The advisor and/or major professor will report a final thesis or dissertation grade of "S" or "U". Any reported grade other than "S" or "U" will be changed to an "S" or "U" grade according to the following: REPORTED GRADE OF "A", "B", "C" = "S", "D", "F" = "U"

- Upon completion of the thesis, or dissertation requirements, final grades for preceding semesters will be changed to the appropriate grade.

Should a student not register each semester as required by the continuous enrollment policy, the student will be required to register and pay tuition and fees for the missed semesters. Tuition and fee payment is due for the missed registration semesters at the beginning of the semester the student resumes his/her study providing the student is eligible to return and resume registration.

A student who has been approved for a medical or a non-medical leave of absence is not required to be registered while under the approved leave period.

University System of Georgia Franchise Programs

Transfer Credits

All of the College of Education program involved in a USG franchise program may allow for additional graduate course credits to be transferred from other USG institutions involved in the respective franchise. The maximum number of transfer credits allowed will be identified by the specific program and will be published in program materials. The M.Ed. in Instructional Technology franchise program will allow up to 9 transfer credits with the advisor's approval. The M.Ed. in Curriculum and Instruction - Accomplished Teaching will allow up to 27 transfer credits including 18 credits of that program's required franchise courses with advisor's approval.

Franchise Programs Admission Requirements

1. Complete and submit the College of Graduate Studies admission application (<https://cogs.georgiasouthern.edu/admission/applynow/>) and pay the specified application fee.
2. Have completed bachelor's degree requirements from a regionally accredited institution.
3. Possess a clear, renewable Georgia certification in teaching, service, or leadership field.
4. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.

Collaborative Franchise Programs

Applicants for a USG Franchise Collaborative Program, such as the M.Ed. in Curriculum and Instruction - Accomplished Teaching, must apply for and be admitted to the cooperating university from which they choose to earn the degree.

Education Specialist Programs

The Education Specialist degree is offered only in a limited number of areas in the College of Education.

Ed.S. Degree Completion Check List

Students need to complete the following items.

- Have accumulated the required number of credit hours for the degree.
- Have successfully completed all program requirements.
- Have an approved Program of Study or approved DegreeWorks audit on file in the College of Graduate Studies.

- Have no grades of "I" or "IP" on your graduate transcript.
- Have a cumulative graduate GPA of at least 3.0.
- Take and pass the comprehensive examination (or equivalent in your department) if required for your degree program by the deadline. Your advisor must submit the Report on Comprehensive Examination/ Thesis Defense Form to the College of Graduate Studies by the deadline.
- Complete the Institutional Review Board (IRB) termination notification through the Office of Research Services and Sponsored Programs by the deadline.

Doctoral Programs

The doctoral degree is the most advanced academic degree awarded by the university. It requires demonstration of expertise in a major field of study, a working understanding of one or more related disciplines, and expression of independent research or abilities leading to a significant contribution to knowledge. Georgia Southern University offers the Doctor of Education (Ed.D.), Doctor of Public Health (Dr.P.H.), Doctor of Psychology (Psy.D.), Doctor of Philosophy (Ph.D.), Doctor of Physical Therapy (D.P.T) and Doctor of Nursing Practice (D.N.P).

- Candidacy Examination (p. 42)
- Dissertation (p. 42)
- Doctoral Degree Completion Check-List (p. 43)
- Doctoral Program Admission Requirements (p. 43)
- Doctoral Program Policies and Requirements (p. 43)

Candidacy Examination

The student must be given a written candidacy/qualifying examination, which may be supplemented by an oral examination as prescribed by the program requirements. These are designed to test the student's breadth and depth of knowledge in the proposed field of specialization, as well as the student's ability to explore problems on the boundaries of knowledge. Satisfactory performance in the examination is an indication that the student is prepared to perform independent work toward the doctoral degree. The candidacy/qualifying examination must be taken no later than the last semester of course work or the following semester. Copies of the examination are filed with the academic unit and made available on request to any graduate faculty member for a period of two years from the date of examination. The results of the candidacy examination are reported to the College of Graduate Studies on the Candidacy Exam Report form that must be signed by members of the Candidacy Committee. If the student fails the candidacy/qualifying examination, only one retake of the Exam is permitted. The format of the examination and the structure of the candidacy committee may differ among doctoral programs, and in some programs, the candidacy committee will differ from the dissertation committee. Within one week following the completion and determination of the results of the candidacy/qualifying examination, including those of any oral portion, the candidacy committee must sign the ballot indicating that the candidacy examination has been completed. In case of failure of the first candidacy/qualifying examination, the candidacy committee may approve a second examination with no more than one dissenting vote. A second examination can be taken no sooner than three months following the initial failure. As with the first examination, the signed Candidacy Exam Report Form must be submitted to the College of Graduate Studies within one week of the determination of the results of the examination.

Dissertation

Dissertation Committee

An approved dissertation, unless otherwise stated by the degree program, is required of all candidates for the award of a doctorate degree. Its purpose is to demonstrate the candidate's ability to conduct significant original research of a type appropriate to the academic discipline, to analyze the information obtained from the research, and to present the results in a form acceptable to the dissertation committee. A dissertation must be written in a form appropriate to the discipline.

When the student is admitted to candidacy and the Dissertation Committee Chair is satisfied with the completed dissertation, he/she will inform the candidate that the dissertation is ready to be read by all members of the Dissertation Committee. Per the preference of the Dissertation Committee, the student will then distribute dissertation copies in electronic file or hard copy format to the committee members. The candidate must provide a copy of the dissertation to each member of the final examining committee at least two weeks (in some programs three weeks) before the scheduled defense. The candidate, in consultation with the Committee Chair (Major Professor) and committee members, will then schedule the dissertation defense. The dissertation defense must be scheduled by the semester deadline stated in the university academic calendar to conduct the defense. The dissertation defense will be held in a forum open to the public.

The chairperson also has the right and the responsibility to evaluate the candidate's performance and to cast a vote. The Dissertation Committee has a variety of responsibilities in the final defense process.

- The chair (and/or the committee) informs the student they are ready to schedule the dissertation defense. Agreeing to the dissertation defense scheduling does not imply that the dissertation is approved.
- Once the defense is scheduled, the committee will thoroughly review the candidate's dissertation to make an assessment of the total dissertation as to presentation, methodology, and reporting. It is best practice in the time between the confirmation of the defense date and the defense date, that committee members not engage in discussion around matters pertaining to the dissertation document. Questions about the student's work should be saved for the oral defense so that the student can defend their work in this designated forum.
- The committee also agrees to hold a public, oral dissertation defense, after the dissertation is deemed acceptable in form, at which the candidate presents and defends the dissertation.
- All members of the examining committee (or substitutes appointed by the College of Graduate Studies) are expected to be present throughout the examination. At the conclusion of the dissertation defense, there can only be one dissenting vote of the examining committee including substitutes appointed by the College of Graduate Studies before the candidate is deemed to have passed. A refusal to vote by the chairperson or any other member of the examining committee shall be recorded as a negative vote. With the permission of the majority of the committee, a failed defense may be retaken only one time and scheduled no earlier than three months from the date of the failure. The defense must be given on the Statesboro campus.
- Following the defense, the committee will report the results (for both failed and passed) of this examination to the College of Graduate Studies.
- When the dissertation has been approved, the dissertation defense passed, and all other requirements have been met, the candidate is recommended to be awarded the degree by the College of Graduate Studies.

Following admission to a doctoral program, the student confers with the degree program coordinator of the academic program and selects an advisor, or "major professor," from among the graduate faculty who

have permission from their department chair to direct dissertations and who are willing to assume the responsibility. Dissertation committees must be formulated by doctoral students in doctoral programs requiring dissertations. The dissertation committee must consist of a minimum of three members of the Graduate faculty, including the student's major professor, who will serve as Chair of the committee.

Only faculty holding Member (Full) Graduate Faculty status may serve as the Dissertation Committee Chair. The committee may include not more than one voting non-Georgia Southern University faculty. This individual must hold Affiliate Graduate Faculty status at Georgia Southern University, be appointed to the graduate faculty, and be approved by the College of Graduate Studies.

The student must submit the completed Dissertation Committee Membership Approval Form (<http://cogs.georgiasouthern.edu/student/forms/>) to the College of Graduate Studies for committee approval and have the non-Georgia Southern committee member complete the online process (<https://w3.georgiasouthern.edu/cogs/externalcommitteemembers/>). The College of Graduate Studies gives final approval for non-Georgia Southern committee members. Changes in the Committee membership must be submitted on the Committee Member Change form and be approved by the Dean of the College of Graduate Studies.

All members of a student's dissertation committee participate as peers and have the responsibility for planning the program of study, advising the student, and ensuring that the student's doctoral program is of high quality.

Dissertation Continuous Enrollment Requirement

The College of Graduate Studies Continuous Enrollment policy states that: *"All thesis or dissertation students who have registered at least once for courses titled thesis or dissertation must be continuously enrolled every semester thereafter, including the semester of graduation. Summer registration is not required unless summer is the graduation semester."* Check with your major advisor to see if your college has a different, or additional, continuous enrollment requirement(s) that apply.

- A grade of "IP" will be recorded for all dissertation credit hour work in progress, and will automatically be recorded each semester the student is enrolled.
- The grade of "S" or "U" must be recorded for all dissertation credit hour when completed.
- The advisor and/or major professor will report a final dissertation grade of "S" or "U". Any reported grade other than "S" or "U" will be changed to an "S" or "U" grade according to the following: REPORTED GRADE OF "A", "B", "C" = "S", "D", "F" = "U"
- Upon completion of the dissertation requirements, final grades for preceding semester(s) will be changed to the appropriate grade.

Should a student not register each semester as required by the continuous enrollment policy, the student will be required to register in dissertation credit and pay tuition and fees for the missed registration semesters at the beginning of the semester the student resumes his/her study providing the student is eligible to return and resume registration.

A student who has been approved for a medical or a non-medical leave of absence is not required to be registered while under the approved leave period.

Doctoral Degree Completion Check-List

The following are required of doctoral students for degree completion:

- satisfied the Foreign Language requirement if completing a doctoral program in which a Foreign Language is required;
- accumulated the required number of credit for the degree;
- successfully completed all program requirements;
- have an approved Program of Study on file in the College of Graduate Studies or have completed the program under DegreeWorks;
- have no grades of "I" or "IP" on your graduate transcript.
- have a cumulative graduate GPA of at least 3.0 or the cumulative GPA required by your program;
- be registered in at least one (1) credit if completing a degree program in which a thesis is being completed;
- take and pass the comprehensive examination (or equivalent in your department) if required for your degree program by the deadline;
- confirmed that your advisor has submitted the appropriate Final Dissertation Defense examination report form to the College of Graduate Studies by the deadline;
- passed the Dissertation defense by the deadline if completing a degree program in which a thesis or internship is required;
- submitted the electronic thesis for format review by the College of Graduate Studies by the deadline;
- submitted the final electronic version of the approved thesis to the College of Graduate Studies by the deadline; and
- completed the Institutional Review Board (IRB) termination notification through the Office of Research Services and Sponsored Programs by the deadline.

Doctoral Program Admission Requirements

To gain admission to a doctoral program, the applicant must be approved for admission both by the graduate faculty of the department and/or program and by the College of Graduate Studies.

Doctoral Program Policies and Requirements

Doctoral Program Credit Requirements

The minimum number of credit hours to satisfy the doctoral program requirements are set for each individual program. The maximum number of credit hours taken at another institution that may count as transfer credit hours toward the doctoral program are also set by the individual doctoral programs.

Electronic Thesis and Dissertation Requirements

Thesis and dissertation students must submit their manuscript in electronic format. The policies, procedures, and submission links for this are presented in detail on the College of Graduate Studies website for The Electronic Thesis and Dissertation (<http://academics.georgiasouthern.edu/etd/>).

Following a successful thesis/dissertation defense, the candidate must make any corrections or changes to the document that may be required by the defense committee. The student is required to submit the document as an electronic file (ETD) by the deadlines identified in the Registrar's Calendar. Committees will then be notified that the student's manuscript is available for their review in the Digital Commons/ETD.

Committee members read and review manuscripts for the following requirements before approving for submission to the Digital Commons:

- Displays accurate and clear writing.
- Complies with the degree's style manual as found in the ETD Manual (https://cogs.georgiasouthern.edu/wp-content/uploads/etd_manual.revFall2020.pdf)
- Complies with the University's format template (https://cogs.georgiasouthern.edu/wp-content/uploads/UPDATED-etd_manual-template.Spring2020.pdf)
- Students and committees are expected to provide a document that meets the style and writing requirements identified for their college. See ETD Manual (https://cogs.georgiasouthern.edu/wp-content/uploads/etd_manual.revFall2020.pdf)

The College of Graduate Studies reviews documents after the committee has approved the document in the Digital Commons/ETD. Documents that do not meet the style guidelines and/or do not reflect accurate and clear writing will be returned to the student/committee for revision until requirements are met.

Students will receive an email from the Digital Commons when their document has been accepted and is available for viewing in the Digital Commons/ETD. When the document has been accepted and is considered complete, the Registrar's Office will be informed that the thesis/dissertation requirement for graduation has been completed.

All deadlines posted in the Registrar's Academic Calendar should be met for students to graduate during the identified term.

Exclusion - Doctoral Students

A doctoral student will be denied continued enrollment at Georgia Southern University for any of the following reasons:

1. failure to meet the conditions of academic probation;
2. failure to meet specified academic requirements as set by the program and/or department; and/or
3. failure to comply with the Academic Dishonesty section of the Student Conduct Code.

Grade Requirements - Doctoral Programs

To be awarded a doctoral degree, the candidate must not be on academic probation and must meet the minimum GPA requirement for the degree program.

The minimum cumulative graduate GPA to remain in good standing is set by the respective doctoral program. Doctoral students should check their program student handbook or consult with their advisor or program director about the minimum GPA requirement for their program.

A student may not repeat any course for credit for which he/she has already received a grade of "C" or better unless specifically permitted by the degree program department policy.

Practicum Requirement

Some doctoral programs may have a practicum requirement. Doctoral students should consult with their respective department/college regarding practicum requirements.

Restricted Courses

While courses numbered 6000 and above are offered for graduate credit hour, courses numbered 9000 and above are open to doctoral degree students only. Courses numbered 5000G to 5999G may be taken for graduate credit but may not be counted toward doctoral degree requirements, unless specifically prescribed as a requirement for the doctoral curriculum. Because this varies by program, please refer to the program requirements for more information.

Additional Programs and Services

Office of International Programs and Services

Interim Director: Mrs. Krisitn R. Kasting-Karam
 Statesboro Campus:
 Veazey Hall 2020
 P.O. Box 8106
 Phone: (912) 478-0332

Armstrong Campus:
 Gamble Hall 110
 Phone: (912) 344-3128
academics.georgiasouthern.edu/international/ (<https://academics.georgiasouthern.edu/international/>)

The Office of International Programs & Services (OIPS) is responsible for the strategic execution of Georgia Southern's internationalization process and provides oversight for the international activities of the campus. The OIPS aims to create a global awareness on campus and within the community. To prepare students with the global knowledge, attitudes and skills that will enable them to function as citizens of the world. We aim to infuse a global dimension throughout the University's teaching, research, and service activities, and improve the breadth and depth of Georgia Southern's global reach and engagement. These aspirations are achieved by managing international strategic partnerships; providing study abroad & exchange programming for students; offering professional development and service activities for faculty; maintaining high-quality, federally compliant international student and scholar services; and hosting programs and events to promote international awareness and an appreciation of global cultures. This infusion of internationalized educational activities extends beyond the scope of the University to support global learning, business, and economic development in Southeast Georgia.

Study Abroad and Exchange Programs

Studying abroad provides students with a trans-cultural experience that has many major benefits: discovering the culture and institutions of other lands, facilitating the development of relevant career skills, making important connections with overseas professionals, and enhancing language skills. In addition, studying abroad contributes to personal maturity, a sense of independence, self-knowledge, and self-confidence. Semester, and year-long exchange, summer, language immersion, and alternative break programs are available. All disciplines are eligible to participate, and programs are offered in more than 30 locations worldwide. For more information, visit academics.georgiasouthern.edu/international/ (<https://academics.georgiasouthern.edu/international/>) or email international@georgiasouthern.edu.

Intercultural Educational Programs

The OIPS plans and coordinates programs which foster international understanding and cultural exchange, both on our campuses and within our surrounding communities. Some of the programs offered are: the Global Partner Zone program, yearly symposiums on different countries, weekly International Conversation Hours, the International Club, International Education Week, the International Festival, the Global Ambassadors Program, the Cross-Cultural Friendships Program, and the International Extended Families Program. Participation in these programs and events are open to both international and U.S. students, as well as the local community.

Center for Teaching Excellence (CTE)

The Center for Teaching Excellence (CTE), which is located on the second floor in Cone Hall, offers Graduate Teaching Enhancement

Programs that are designed to help Georgia Southern graduate Teaching Assistants (TAs) develop and refine their teaching skills. All graduate TA2s involved in face-to-face instruction must have completed training, which consists of centralized training offered by the Center for Teaching Excellence (CTE) or decentralized training within the academic program. Decentralized training must have prior approval from the College of Graduate Studies, CTE, and the Office of the Provost. TA2s may also be required to participate in additional in-service training within their College or Department, as determined by their program. Centralized TA2 training in CTE consists of the Orientation to Teaching portion of the program, consisting of three 3-hour seminars conducted prior to the beginning of each semester.

In addition to the basic orientation, two different university teaching certification programs are offered to interested participants. All programs are coordinated by the Center for Teaching Excellence, with administrative support from the College of Graduate Studies. All TAs are further invited to individually consult with CTE staff regarding their teaching related questions.

For more information about programs and services please contact:

Statesboro Campus:
Cone Hall, 2nd Floor
Phone: (912) 478-0049
Fax: (912) 478-0099

Armstrong Campus:
Solms Hall, Suite 211
Phone: (912) 344-3607

Liberty Campus:
Phone: (912) 478-0049 or (912) 344-3607

cte@georgiasouthern.edu
academics.georgiasouthern.edu/CTE/ (<https://academics.georgiasouthern.edu/cte/>)

Georgia Southern University Online Degrees

Center for Online Learning

Georgia Southern University offers the following online degree programs:

Graduate Programs

- Elementary Education (Grades P-5) Ed.S. (Online) (p. 109)
- Instructional Technology Ed.S. (Online) (p. 117)
- Middle Grades Education (Grades 4-8) Ed.S. (Online) (p. 128)
- Reading Education (K-12) Ed.S. (Online) (p. 103)
- Secondary Education (Grades 6-12) Ed.S. (Online) (p. 130)
- Special Education (Grades P-12) Ed.S. (Online) (p. 111)
- Accounting WebM.Acc. (The Web-Based Master of Accounting) (p. 85)
- Applied Economics M.S. (p. 88)
- Business Administration M.B.A. (The Georgia WebMBA) (p. 90)
- Criminal Justice and Criminology M.S. (Emphasis in Criminal Justice) (p. 68)
- Criminal Justice and Criminology M.S. (Emphasis in Criminology) (p. 69)
- Criminal Justice and Criminology M.S. (Emphasis in Cybercrime) (p. 70)
- Curriculum and Instruction - Accomplished Teaching M.Ed. (Online) (p. 108)
- Educational Leadership M.Ed.(Online) (p. 121)
- Elementary Education (Grades P-5) M.Ed. (Online) (p. 110)
- Evaluation, Assessment, Research, and Learning M.Ed. (Online) (p. 104)
- Instructional Technology M.Ed. (Georgia ONmyLINE) (p. 122)
- Kinesiology M.S. (Concentration in Coaching) (Online) (p. 173)
- Kinesiology M.S. (Concentration in Physical Education) (Online) (p. 174)
- Middle Grades Education (Grades 4-8) M.Ed. (Online) (p. 129)
- Nursing M.S.N. (Online) (p. 195)
- Professional Communication and Leadership M.A. (p. 52)
- Public Health M.P.H. (Concentration in Applied Public Health) (Online) (p. 209)
- Reading Education M.Ed. (Online) (p. 104)
- Secondary Education (Grades 6-12) M.Ed. (Online) (p. 131)
- Special Education (Grades P-12) M.Ed. (Online) (p. 112)
- Sport Management M.S. (Online) (p. 178)
- Teaching Culturally and Linguistically Diverse Students M.Ed. (p. 133)
- Teaching M.A.T. (Concentration in Elementary Education P-5) (Online) (p. 113)
- Teaching M.A.T. (Concentration in Middle Grades Education Grades 4-8) (Online) (p. 135)
- Teaching M.A.T. (Concentration in Secondary Education Grades 6-12) (Online) (p. 137)
- Teaching M.A.T. (Concentration in Special Education P-12) (Online) (p. 114)
- Doctor of Nursing Practice D.N.P. (Online) (p. 191)
- Nursing BSN to DNP (p. 193)
- Public Health Dr.P.H. (Concentration in Public Health Leadership) (Online) (p. 214)

Graduate Endorsement Programs

- Autism Endorsement (Online) (p. 108)
- English for Speakers of Other Languages (ESOL) Education Endorsement (Online) (p. 127)
- Gifted In-field Graduate Endorsement (Online) (p. 128)
- Gifted In-field Undergraduate Endorsement (Online) (<http://catalog.georgiasouthern.edu/undergraduate/education/middle-grades-secondary-education/gifted-in-field-undergraduate-endorsement/>)
- Online Teaching and Learning Endorsement (Online) (p. 126)
- Positive Behavior Intervention and Supports Endorsement (Online) (p. 111)
- Reading Endorsement: Classroom Teacher of Reading Program (Online) (p. 106)
- Teacher Leadership Endorsement (Online) (p. 127)
- Teacher Support and Coaching Endorsement (Online) (p. 132)
- Urban Education Graduate Endorsement (Online) (p. 107)
- Urban Education Undergraduate Endorsement (<http://catalog.georgiasouthern.edu/undergraduate/education/curriculum-foundations-reading/urban-education-undergraduate-endorsement/>)

Graduate Certificate Programs

- Adult/Gerontology Acute Care Nurse Practitioner Post-MSN Certificate (p. 189)
- Adult/Gerontology Primary Care Nurse Practitioner Post-MSN Certificate (p. 190)
- Applied Economics Certificate (Online) (p. 87)
- Applied Research and Evaluation Certificate Program (Online) (p. 105)

- Certificate in Public Health (Online) (p. 198)
- Clinical Specialist in Advanced Imaging Certificate (<http://catalog.georgiasouthern.edu/undergraduate/waters-health-professions/diagnostic-therapeutic-sciences/clinical-specialist-advanced-imaging-certificate/>)
- Curriculum and Pedagogy for Social Justice Certificate (Online) (p. 106)
- Cybercrime Post-Baccalaureate Certificate (p. 71)
- Educational Leadership Tier I Certificate Program (Online) (p. 124)
- Enterprise Resources Planning (ERP) Certificate Program (Online) (p. 94)
- Family Nurse Practitioner Post-MSN Certificate (p. 192)
- Instructional Technology Certificate Program (Online) (p. 125)
- Paralegal Certificate Program (<http://catalog.georgiasouthern.edu/undergraduate/behavioral-social-sciences/political-science-and-international-studies/paralegal-certificate/>)
- Psychiatric Mental Health Nurse Practitioner Post-MSN Certificate (p. 196)
- School Library Media Certificate Program (Online) (p. 125)
- Strength and Conditioning Graduate Certificate (p. 181)
- Tactical Athlete Certificate (<http://catalog.georgiasouthern.edu/undergraduate/waters-health-professions/rehabilitation-sciences/tactical-athlete-certificate/>)
- Teaching Culturally and Linguistically Diverse Students Certificate (Online) (p. 133)
- Teaching English to Speakers of Other Languages (TESOL)/Applied Linguistics Certificate (Online) (p. 59)

Undergraduate Programs

- Criminal Justice and Criminology B.S. (Emphasis in Criminal Justice and Criminology) (<http://catalog.georgiasouthern.edu/undergraduate/behavioral-social-sciences/criminal-justice-criminology/criminal-justice-and-criminology-bs-emphasis-criminal-justice-criminology/>)
- Health Sciences B.H.S. (Concentration in General Health Science) (<http://catalog.georgiasouthern.edu/undergraduate/waters-health-professions/health-kinesiology/health-sciences-bhs-general-health-science-concentration/>)
- Information Technology B.I.T. (Online) (<http://catalog.georgiasouthern.edu/undergraduate/allen-paulson-engineering-computing/information-technology/information-technology-bit-online/>)
- Interdisciplinary Studies B.I.S. (Online) (<http://catalog.georgiasouthern.edu/undergraduate/arts-humanities/interdisciplinary-studies/interdisciplinary-studies-bis-online/>)
- Medical Laboratory Science B.S.M.L.S. (Online) (<http://catalog.georgiasouthern.edu/undergraduate/waters-health-professions/diagnostic-therapeutic-sciences/medical-laboratory-science-bsmls-online-career-ladder-track/>)
- Respiratory Therapy B.S. (Online) (<http://catalog.georgiasouthern.edu/undergraduate/waters-health-professions/diagnostic-therapeutic-sciences/respiratory-therapy-bs-online-career-ladder-track/>)
- Sociology B.S. (<http://catalog.georgiasouthern.edu/undergraduate/behavioral-social-sciences/sociology-anthropology/sociology-bs/>)
- World Languages and Cultures B.A. (Concentration in French Studies) (<http://catalog.georgiasouthern.edu/undergraduate/arts-humanities/foreign-languages/modern-languages-ba-concentration-french/>)
- World Languages and Cultures B.A. (Concentration in German Studies) (<http://catalog.georgiasouthern.edu/undergraduate/arts-humanities/foreign-languages/modern-languages-ba-concentration-german/>)
- World Languages and Cultures B.A. (Concentration in Spanish Studies) (<http://catalog.georgiasouthern.edu/undergraduate/arts->

[humanities/foreign-languages/modern-languages-ba-concentration-spanish/](http://catalog.georgiasouthern.edu/undergraduate/arts-humanities/foreign-languages/modern-languages-ba-concentration-spanish/))

Online Course Support Services

Center for Online Learning (COL)

The COL provides technical and pedagogical training and support for faculty who develop online courses. For more information, call (912) 478-0049 or visit the COL website at: academics.georgiasouthern.edu/col/ (<http://academics.georgiasouthern.edu/col/>).

Center for Academic Technology Support (CATS)

CATS provides technical problem support for online courses for students and faculty. For more information call (912) 478-2287 or visit the CATS website at: academics.georgiasouthern.edu/cats/ (<http://academics.georgiasouthern.edu/cats/>).

Online Programs at Georgia Southern University

For more information about online programs at Georgia Southern University, please see the following website: academics.georgiasouthern.edu/online/ (<http://academics.georgiasouthern.edu/online/>).

- Graduate Degree Program Directors/Coordinators (p. 46)

Graduate Degree Program Directors/Coordinators

The Graduate Program Director (GPD) in an academic unit is a faculty member appointed by the unit administrator (Chair) to administer its graduate program(s). The GPD makes recommendations for program elements such as admission, provides approval for Programs of Study, handles student appeals, and coordinates Thesis and Dissertation committees. It is the GPD's responsibility to coordinate the department's program with the COGS. The GPD receives all inquiries, applications, announcements, and requests for data and information relative to the academic program(s), and communicates COGS policies and actions to program faculty and graduate students. Graduate Program Directors are expected to be knowledgeable of degree requirements, Graduate School regulations and procedures, and the general organization of the University as it affects graduate students. The specific duties of the GPDs include:

- processing and evaluation of applications;
- transmitting to the Office of Graduate Admissions the program's recommendation on student applications for admission;
- notifying the COGS of the student's progress towards the degree (exams, etc.);
- approving students' Programs of Study in DegreeWorks;
- maintaining unit files on prospective, present and past students;
- providing department endorsement of requested exceptions to University policy;
- attendance and participation in COGS Program Director meetings and functions; and
- reviewing student appeals regarding academic program matters.

Preparing for Graduation

Program of Study Form (For degree seeking students admitted prior to Fall 2010)

The Program of Study Form confirms that you have taken the courses required for your graduate degree. The Program of Study Form must be submitted to the College of Graduate Studies not later than the end of the semester prior to the expected graduation term. Degree seeking students admitted Fall 2010 or later will complete their program under DegreeWorks.

Application for Graduation

This is the formal request for the Registrar's Office to begin proceedings for declaration of the degree. All Masters, Specialists and Doctoral students must submit a graduation application in WINGS **by the last Friday in March** if they plan to complete their graduation requirements in Spring or Summer, or **by the last Friday in October** if they plan to complete their graduation requirements in the Fall. To apply, please click on the "Application for Graduation" box located under the "Student tab in your WINGS account.

A doctoral student is not permitted to walk in a graduation ceremony until all requirements for the degree have been satisfied and the student cleared for graduation.

Graduation Fee Payment

A non-refundable fee of \$35 is required to cover the processing of the graduation and the diploma. Payment should be received by the end of the semester in which the student plans to graduate. It is best to pay the graduation fee on-line through WINGS by logging into My.GeorgiaSouthern.edu (<http://my.georgiasouthern.edu/>).

Graduate in Absentia Form

Students who do not plan on attending the commencement must complete the Request to Graduate in Absentia Form. Please refer to the Graduate in Absentia (<https://my.georgiasouthern.edu/walking-out-of-term-form/>) website for more details.

Reserve Graduation Attire

Graduation attire must be reserved 8 weeks before graduation. Cap and gown fees can be paid directly to the Herff Jones Company when you place your order. Doctoral students must contact Herff Jones with their height, cap size, degree, and major at:

Herff Jones
7 South Mulberry Street
Statesboro, GA 30458
Telephone: (912) 764-9314
Fax: (912) 764-9550
Email: roderick@frontiernet.net

Graduation Attire Reservations (<http://www1.herffjones.com/college/graduation/>)

Pay Outstanding Debts

All debts to Georgia Southern University must be paid in full. To determine debts such as parking tickets, library fees, fines, etc., students should contact the Cashier's Office at: Georgia Southern University, Cashier's Office, Deal Hall, (912) 478-0020.

Diploma Address

Georgia Southern University's Office of the Registrar will mail the diploma to students 6-8 weeks after graduation. Students are strongly encouraged to update the Diploma Address and graduation e-mail address on WINGS before the end of the semester in which you are completing the degree requirements.

Graduate Faculty Policy

Purpose

The purpose of the Graduate Faculty Policy is to ensure that graduate programs are comprised of faculty who are active, productive, creative scholars, or creative performer in their discipline in order to teach graduate students how to be active scholars, practitioners, and/or performers in their own right. Graduate faculty must be involved in the current knowledge, methods and techniques of their disciplines. This modeling of sustained scholarship/performance is the cornerstone of quality graduate education.

Policy

There are two categories of graduate faculty - member and affiliate. Members of the graduate faculty hold a terminal degree, are on tenured or tenure-track appointments, and are granted graduate faculty status upon appointment to the faculty at Georgia Southern University. Affiliate graduate faculty status may include any non-tenure track faculty who also hold a terminal degree and are appropriately credentialed to teach graduate classes and serve on thesis and dissertation committees. Affiliate status can also be used to recognize outstanding scholars, including those who work in government agencies, private industry, healthcare, and education who are not full-time employees of Georgia Southern University and who may not have a terminal degree, but who participate on thesis and dissertation committees only.

Members are eligible:

- to teach graduate courses;
- to serve as members on university graduate committees;
- to serve on program-level examination committees; and
- to direct and/or chair master's and doctoral committees as approved by the department/school.

Affiliates are eligible:

- to teach graduate courses - as long as the faculty member meets the eligibility criteria outlined in the University's *Credentialing Manual for Teaching Faculty*;
- to serve on program-level examination committees; and
- for membership on and/or co-chair master's and doctoral committees as approved by the department/school.

Member and affiliate graduate faculty status is granted permanently. All faculty who are awarded emeriti designation retain their graduate faculty status.

Exclusion

Faculty granted affiliate status who do not hold a terminal degree will not be eligible to teach graduate courses but may be eligible to serve on program-level examination committees and thesis and dissertation committees.

Procedure

To award affiliate graduate faculty status, a notification form must be completed and forwarded through the appropriate dean's office to the College of Graduate Studies for processing. The notification form must clearly indicate whether the appointment will include

graduate level instruction. All decisions regarding affiliate graduate faculty status are final at the dean's level as long as the faculty member meets the eligibility criteria outlined in the University's *Credentialing Manual for Teaching Faculty*. (https://drive.google.com/file/d/1qD0plUwOxTWPp_MKjAJkCOagNB4jDB9s/view/) Conflicts with the *Credentialing Manual for Teaching Faculty* will be returned to the applicable dean's office.

College of Arts and Humanities

Mission

The College of Arts and Humanities strives to serve students, the university, and communities throughout Southeast Georgia through instruction, research, and performance; and to provide the necessary resources to confront the challenges of a global society in the twenty-first century.

Visit us at our web site at <http://cah.georgiasouthern.edu/> (<http://cah.georgiasouthern.edu/>)

College Structure

- Betty Foy Sanders Department of Art (p. 48)
- Department of Communication Arts (p. 51)
- Department of History (p. 54)
- Department of Literature (p. 57)
- Department of World Languages and Cultures (p. 58)
- Department of Writing and Linguistics (p. 59)
- Fred and Dinah Gretsch School of Music (p. 60)

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Programs

Master's

- Art M.F.A. (Concentration in Graphic Design) (p. 49)
- Art M.F.A. (Concentration in Studio Art) (p. 50)
- English M.A. (p. 57)
- History M.A. (Concentration in Public History) (p. 55)
- History M.A. (Non-Thesis) (p. 55)
- History M.A. (Thesis) (p. 56)
- Music M.M. (Concentration in Composition) (p. 61)
- Music M.M. (Concentration in Conducting) (p. 62)
- Music M.M. (Concentration in Music Education) (p. 63)
- Music M.M. (Concentration in Music Technology) (p. 64)
- Music M.M. (Concentration in Performance) (p. 65)
- Professional Communication and Leadership M.A. (p. 52)
- Spanish M.A. (p. 58)

Certificates

- Art Education Post-Baccalaureate Certification (p. 48)
- Certificate in Music Performance (p. 60)
- Certificate in Public History (p. 54)
- Professional Communication and Leadership Post-Baccalaureate Certificate (p. 53)
- Teaching English to Speakers of Other Languages (TESOL)/Applied Linguistics Certificate (Online) (p. 59)

Interim Dean: Dr. John Kraft
Foy 3012
P.O. Box 8142
(912) 478-1957
jkraft@georgiasouthern.edu

Associate Dean: S. Norton Pease
Foy 3012
P.O. Box 8142
(912) 478-2527
spease@georgiasouthern.edu

Assistant Dean: Dr. Jolyon Hughes
Foy 3012
P.O. Box 8142
(912) 478-2527
jhughes@georgiasouthern.edu

Betty Foy Sanders Department of Art

The Master of Fine Arts degree programs (Graphic Design, Studio Art) provide students with a comprehensive experience leading to the terminal MFA degree. The degree programs exhibit the professional intensity and high standards expected of all terminal degree programs. Recognizing the close scholarly and functional relationship between Art and Design, the MFA is cross-disciplinary and combines technical skills, creative work, inquiry, and investigation in ways that focus on the advanced preparation of artists and designers in their areas of specialization.

The MFA programs enable degree holders to become: professional practitioners in art and design, educators, leaders in critical thinking, and significant contributors in the contemporary dialog of their discipline through research and scholarship.

Programs

Master's

- Art M.F.A. (Concentration in Graphic Design) (p. 49)
- Art M.F.A. (Concentration in Studio Art) (p. 50)

Certificates

- Art Education Post-Baccalaureate Certification (p. 48)

Art Education Post-Baccalaureate Certification

Certificate Requirements: 21 Credit Hours

The Post-Baccalaureate, Non-Degree Teaching Certificate program is designed for individuals who want to teach art and hold an undergraduate art degree or graduate art degree with sufficient coursework. The program leads to Georgia teaching certification at the T-4 level.

This teacher certification program, in the field of art for all grades (P-12), is offered through the College of Education in partnership with the department.

Individuals can start this program in any semester. There is no firm application deadline, but we encourage applicants to apply as early as possible.

Program of Study

	Credit Hours
Required Courses	
Professional Education Courses	9
EDUF 7133 Instruction-Based Assessment	
ITEC 5233G Foundations of Technology-Enabled Learning	
SPED 6130 Introduction to Special Education	
Art Education Courses	8
ARTS 5300G Issues in Art Education	
ARTS 5400G Art in the Elementary Grades	
ARTS 5410G Art in the Middle and Second Grades	
Internship	4
ARTS 6750 Graduate Internship	
Total Credit Hours	21

Additional Program Requirements

A full-time, semester-long field-based graduate internship (student teaching) is under the tutelage of a university supervisor. This internship cannot begin until all other required courses have been completed.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Art M.F.A. (Concentration in Graphic Design)

Certificate Program Requirements: 60 Credit Hours

Application Deadlines

March 1 for Fall Semester, October 1 for Spring Semester; application portfolios for the MFA degree program are not reviewed during summer session.

Admission Requirements

1. Completed requirements for the Bachelor's degree in a college accredited by the appropriate accrediting association.
2. Satisfactory completion of a minimum of 18 credits of undergraduate studio arts courses and an additional minimum of nine (9) credits of art history.

3. A 3.0 (4.0 scale) cumulative grade point average or higher on all undergraduate work.
4. In addition to application materials required by the College of Graduate Studies, prospective students are required to submit a creative portfolio for consideration by the admissions committee in the Art Department.

Electronic Portfolio is emailed directly to MFA Graduate Program Director and must include:

1. Statement of Interest and Intent describing purpose of entering full-time graduate program and ultimate goal(s) as a graphic designer.
2. Artist's Statement highlighting body of work presented in portfolio.
3. Three (3) letters of reference identifying your studio practices and ability to pursue coursework of an advanced critical and theoretical nature.
4. Resume.
5. 20 to 30 images of current artwork representing a mature body of work.

You may email the following file types:

IMAGE: JPEG or JPG, under 5MB and 1200 pixels or larger on the longest side.

AUDIO: AIFF, WAV, XMF, MP3, under 10 MB with a minimum bit rate of 96

VIDEO: 3GP, WMV, AVI, MOV, ASF, MPG, MP4, M2T, MKV, M2TS, under 100MB with a minimum resolution of 640x480; minimum 12 fps.

Acceptable Media:

File Types IMAGE MEDIA

File format: JPEG or JPG only

File dimensions: 1200 pixels or greater on the longest side

Anything larger than 1200 px may not be viewed by the committee

File size: under 5 MB

AUDIO MEDIA:

File formats: AIFF, WAV, XMF, MP3

Bit rate: minimum 96 kbps—maximum

320 kbps Codec: aiff, wav, au

File size: under 10 MB

VIDEO MEDIA

File formats: 3GP, WMV, AVI, MOV, ASF, MPG, MP4, M2T, MKV, M2TS

Resolution: minimum 640 x 480, maximum 1920 x 1080

Aspect ratio: 4:3 or 16:9

Bit rate: recommended above 240 kbps

Frame rate: minimum 12 fps, recommended 30 fps.

Codec: h.264, h.263, mpeg-1, mpeg-2, mpeg-4, Windows Media Video,

and motion jpeg mpeg-1 muxed, Apple Lossless Container: 3gp, asf, avi,

mov, mpeg, mpeg-2, mp4, ogg

File size: under 100 MB

Currently, linked media from YouTube, Vimeo, etc. is not accepted. Please use upload-ready media files only.

Program of Study

Students admitted into the Master of Fine Arts degree program pursue tracks in graphic design or studio art. Students are expected to maintain full-time enrollment throughout the degree program. A grade of "A" or "B" is required in course work applied toward the degree. After earning grades of "C" or below in two courses during their degree program, students will be dismissed from the program.

Certificate Program Requirements: 60 Credit Hours

Major Studio Concentration in Graphic Design: student develops the conceptual and strategic characteristics of their personal design work in studio coursework that explores current trends and essential competencies in contemporary graphic design.

	Credit Hours
Required Studio Coursework 36 (Credit Hours)	36
ART 7151 Design Activism	
ART 7152 Design & Semiotics	
ART 7153 Design Explorations	
ART 7154 Design for the User	
ART 7251 Design Communication	
ART 7252 Design Systems	
ART 7253 Design Forms	
ART 7254 Design of Information	
ART 7351 Design Methods	
ART 7352 Design and Typographic Form	
ART 7353 Design Ethics	
ART 7354 Design Issues	
Art History/Critical Theory/Professional Practices	9
ART 8830 Readings and Research in Art	
ARTH 7377 Graphic Design Art History	
ARTH 8630 Art Theory and Criticism	
MFA Thesis: Thesis Exhibition and Support Paper	6
ART 8999 Master of Fine Arts Thesis (repeatable)	
Electives	9
Select 9 credit hours from the following elective courses (in department or outside of major department):	
ART 7190 Graduate Studio Practice	
ART 8030 Selected Topics in Art	
OR graduate level art history course or course in other discipline relative to student's thesis direction.	
Total Credit Hours	60

Required Participation in Faculty Review of Creative Work Throughout Program

- Graduate Semester Critiques: Present two to four works in one critique per semester during (Year 1 Fall and Spring; Year 2 Spring);
- Third Semester Review: Faculty Review of body of work during (Year 2 end of Fall)
- Graduate Research Symposia Poster Presentation (Year 1, 2, 3 Spring)
- Preparation of MFA Thesis Exhibition with Gallery Director (Year 2 Spring)
- Written Support Document reflective of thesis body of creative work
- Presentation of hardbound thesis monographs to
 - a. Thesis Chair and
 - b. Department of ART Archives
- Oral Defense of Thesis Exhibition/Written Text

Thesis Exhibition, Support Text, Oral Defense

Completed during the last two semesters of a student's program, the thesis exhibition, support paper and oral defense of exhibition and paper is the culmination of the MFA graduate degree. The student's thesis exhibition represents a sound-body of contemporary artwork,

presented professionally. The written support text adheres to the College of Graduate Studies guidelines and explains the historical and theoretical foundations for the student's creative body of visual artwork. The student acknowledges and defends their accomplishments during the oral defense of exhibition and written support text.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Art M.F.A. (Concentration in Studio Art)

Certificate Program Requirements: 60 Credit Hours

Application Deadlines

March 1 for Fall Semester, October 1 for Spring Semester; application portfolios for the MFA degree program are not reviewed during summer session.

Admission Requirements

1. Completed requirements for the Bachelor's degree in a college accredited by the appropriate accrediting association.
2. Satisfactory completion of a minimum of 18 credits of undergraduate studio arts courses and an additional minimum of nine (9) credits of art history.
3. A 3.0 (4.0 scale) cumulative grade point average or higher on all undergraduate work.
4. In addition to application materials required by the College of Graduate Studies, prospective students are required to submit a creative portfolio for consideration by the admissions committee in the Art Department.

Electronic Portfolio is emailed directly to MFA Graduate Program Director and must include:

1. Statement of Interest and Intent describing purpose of entering full-time graduate studio art program and ultimate goal(s) as an artist.
2. Artist's Statement highlighting body of work presented in portfolio.
3. Three (3) letters of reference identifying your studio practices and ability to pursue coursework of an advanced critical and theoretical nature.
4. Resume.
5. 20 to 30 images of current artwork representing a mature body of work.

You may email the following file types:

- IMAGE: JPEG or JPG, under 5MB and 1200 pixels or larger on the longest side.
- AUDIO: AIFF, WAV, XMF, MP3, under 10 MB with a minimum bit rate of 96.

- VIDEO: 3GP, WMV, AVI, MOV, ASF, MPG, MP4, M2T, MKV, M2TS, under 100MB with a minimum resolution of 640x480; minimum 12 fps.

Acceptable Media File Types

IMAGE MEDIA

File format: JPEG or JPG only
 File dimensions: 1200 pixels or greater on the longest side.
 Anything larger than 1200 px may not be viewed by the committee.
 File size: under 5 MB

AUDIO MEDIA

File formats: AIFF, WAV, XMF, MP3
 Bit rate: minimum 96 kbps–maximum 320 kbps
 Codec: aiff, wav, au
 File size: under 10 MB

VIDEO MEDIA

File formats: 3GP, WMV, AVI, MOV, ASF, MPG, MP4, M2T, MKV, M2TS
 Resolution: minimum 640 x 480, maximum 1920 x 1080
 Aspect ratio: 4:3 or 16:9
 Bit rate: recommended above 240 kbps
 Frame rate: minimum 12 fps, recommended 30 fps.
 Codec: h.264, h.263, mpeg-1, mpeg-2, mpeg-4, Windows Media Video, and motion jpeg mpeg-1 muxed, Apple Lossless Container: 3gp, asf, avi, mov, mpeg, mpeg-2, mp4, ogg
 File size: under 100 MB

Currently, linked media from YouTube, Vimeo, etc. is not accepted. Please use upload-ready media files only.

Program of Study

Students admitted into the Master of Fine Arts degree program pursue tracks in graphic design or studio art. Students are expected to maintain full-time enrollment throughout the degree program. A grade of "A" or "B" is required in course work applied toward the degree. After earning grades of "C" or below in two courses during their degree program, students will be dismissed from the program.

Certificate Program Requirements: 60 Hours

	Credit Hours
Major Studio	36
Student develops an individual creative process and professional studio practice methodology in studio coursework with opportunities to pursue interdisciplinary media, materials, and experiences.	
ART 7190 Graduate Studio Practice (repeatable)	
Art History/Critical Theory/Professional Practices	12
ART 7890 Professional Practices in Art	
ART 8830 Readings and Research in Art	
ARTH 7237 Contemporary Art	
ARTH 8630 Art Theory and Criticism	
MFA Thesis: Thesis Exhibition and Support Paper	6
ART 8999 Master of Fine Arts Thesis (repeatable)	
Electives	6
Select 6 credit hours from the following elective courses (in department and/or other courses outside of major department):	
ART 8030 Selected Topics in Art	
OR graduate level art history course or course in other discipline relative to student's thesis direction.	
Total Credit Hours	60

Required Participation in Faculty Review of Creative Work Throughout Program

- Graduate Semester Critiques: Present two to four works in one critique per semester during (Year 1 Fall and Spring; Year 2 Spring);
- Third Semester Review: Faculty Review of body of work during (Year 2 end of Fall)
- Graduate Research Symposia Poster Presentation (Year 1, 2, 3 Spring)
- Preparation of MFA Thesis Exhibition with Gallery Director (Year 2 Spring)
- Written Support Document reflective of thesis body of creative work
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 - a. Thesis Chair and
 - b. Department of ART Archives
- Oral Defense of Thesis Exhibition/Written Text

Thesis Exhibition, Support Text, Oral Defense

Completed during the last two semesters of a student's program, the thesis exhibition, support paper and oral defense of exhibition and paper is the culmination of the MFA graduate degree. The student's thesis exhibition represents a sound-body of contemporary artwork, presented professionally. The written support text adheres to the College of Graduate Studies guidelines and explains the historical and theoretical foundations for the student's creative body of visual artwork. The student acknowledges and defends their accomplishments during the oral defense of exhibition and written support text.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Department of Communication Arts

The Professional Communication and Leadership degree focuses on written and verbal communication within the lens of leadership. It is a degree developed to prepare students as a working professional or for further study in the areas of communication, critical thinking, and leadership. Students of the program become familiar with communication strategies, technical editing, diverse contexts, and leadership in the public arena.

Reflecting the missions of Georgia Southern University and the College of Arts and Humanities, the Communication Arts and Writing and Linguistics departments foster a culture of close engagement with students, combining theory with practice, and extending the learning environment beyond the classroom to promote life-long learning and growth.

Programs

Master's

- Professional Communication and Leadership M.A. (p. 52)

Certificates

- Professional Communication and Leadership Post-Baccalaureate Certificate (p. 53)

Professional Communication and Leadership M.A.

Degree Requirements: 30 Credit Hours

Policies, Requirements and Standards

The Master of Arts in Professional Communication and Leadership is designed to further professional development through coursework in written and verbal communication skills, critical thinking, and leadership. The program is directed toward both traditional and non-traditional students who are either already in the work force or are making the transition from an undergraduate degree to a professional setting. Unlike traditional master's programs, which focus on developing skills in one specific discipline, the Professional Communication and Leadership program combines the interdisciplinary nature of liberal studies with a practical focus on professional development. Students who have a firm foundation in the arts and sciences are well positioned to advance professionally, but they often need specific skills that are not covered by traditional majors. This M. A. degree is designed to meet that specific need. The M.A. in Professional Communication and Leadership includes a core of courses in organizational communication, professional writing, and leadership, with elective courses available in written communication, small group communication, and conflict resolution, among others.

Admission Standards

Regular Admission

For regular admission the applicant must have:

1. For regular admission the applicant must have: Official transcripts that demonstrate completion of requirements for the baccalaureate degree from a regionally accredited institution. A 2.75 overall grade point average, OR a 2.50 overall grade point average with a minimum 2.75 major grade point average, on all undergraduate work is required.
2. A resume or vita.
3. Two professional letters of recommendation.
4. Letter of Intent: A writing sample of 200-500 words that describes how an M. A. in Professional Communication and Leadership would help you meet your personal and professional goals.

Standards of Progression and Graduation

Time Limit

All degree requirements must be completed within seven years.

Program of Study

Students will formalize a program of study with their major advisor. Students are encouraged to apply for graduation two semesters before the anticipated date of graduation. A copy of the official program of study must accompany the candidate's application. At least fifty percent of the program must be completed at the 6000-8000 levels.

Graduation Requirements

The student must maintain a 3.0 overall average of all graduate courses completed.

Credit Hours**18****Core Courses**

COMM 7100	Research in Communication and Leadership
or LEAD 7100	Practical Research in Leadership Settings
COMM 7150	Communication and Leadership in the Public Arena
or LEAD 7150	Leadership in the Public Arena: From Ideas to Action
COMS 7200	Organizational Communication in Diverse Contexts
LEAD 7700	Professional Communication and Leadership Internship
or LEAD 7900	Comprehensive Project in Professional Communication and Leadership
WRIT 7100	Professional Communication Strategies
WRIT 7250	Plain Language in Workplace Writing
Students select four courses from the list below:	
APPH 7134	Social Marketing for Health Communication
COMM 5035G	Selected Topics in Communication
COMM 5333G	Theories of Mass Communication
COMM 5335G	Public Relations Campaigns in Health and Science
COMM 7300	Applied Crisis Communication Theory
COMM 7400	Health Communication
COMM 7500	Selected Topics in Communication
COMS 5330G	Communication Theory
COMS 5331G	Communication and Conflict
COMS 5332G	Nonverbal Communication
COMS 5333G	Communication and Gender
COMS 5334G	Interpersonal Communication in the Workplace
COMS 5335G	Family Communication
COMS 5530G	Rhetoric
or WRIT 5330G	Rhetoric
COMS 7300	Professional Communication Presentation Skills
COMS 7400	Communication Training and Development
LEAD 7300	Selected Topics in Leadership Studies
LEAD 7400	Contemporary Issues in Leadership
LEAD 7800	Independent Study in Professional Communication and Leadership
PSYC 6150	Conflict Resolution
PSYC 6300	Leadership and Group Dynamics
WRIT 5510G	Writing for the Nonprofit Sector
WRIT 5550G	Publication Design
WRIT 5570G	Advanced Writing, Rhetoric, and Culture

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WRIT 6030	Selected Topics in Writing and Linguistics
WRIT 6110	Managing Digital Documents
WRIT 6133	Usability and User Experience
WRIT 7110	Applied Ethics in Professional and Technical Communication
WRIT 7120	Rhetorics of Health and Medicine
Approved Elective	
Total Credit Hours	30

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Professional Communication and Leadership Post-Baccalaureate Certificate

Certificate Requirements: 15 Credit Hours

Policies, Requirements and Standards

The Graduate Certificate in Professional Communication and Leadership prepares students for workplace communication, critical thinking, and organizational leadership. It is directed toward both working professionals and mature college graduates who are either already in the work force or who are making the transition from an undergraduate degree to a professional setting, and aim to sharpen their communication abilities. At the core of the certificate program are four courses that focus on writing, professional communication, and leadership. From there, students choose one additional specialized course in information design, psychology, leadership, or communication to complete the 15 credit hours.

Admission Standards

- Official transcripts that demonstrate completion of requirements for the baccalaureate degree from a regionally accredited institution. A 2.75 overall grade point average, OR a 2.50 overall grade point average and a minimum 2.75 major grade point average, on all undergraduate work is required
- Official transcripts
- A resume or vita
- A Letter of Intent. A writing sample of 200-500 words that describes how a Graduate Certificate in Professional Communication and Leadership would help you meet your personal and professional goals. This essay may include a discussion of any weaknesses in your academic record.
- Two professional letters of recommendation

Standards of Progression and Graduation

Time Limit

All degree requirements must be completed within seven years.

Program of Study

Students will formalize a program of study with the program coordinator. Students are encouraged to apply for graduation in the semester before the anticipated date of graduation. A copy of the official program of study must accompany the candidate's application. At least fifty percent of the program must be completed at the 6000-8000 levels.

Graduation Requirements

The student must maintain a 3.0 overall average of all graduate courses completed.

		Credit Hours
Core Courses		12
COMM 7150	Communication and Leadership in the Public Arena	
or LEAD 7150	Leadership in the Public Arena: From Ideas to Action	
COMS 7200	Organizational Communication in Diverse Contexts	
WRIT 7100	Professional Communication Strategies	
WRIT 7250	Plain Language in Workplace Writing	
Elective: Students must select one course from the list below.		3
APPH 7134	Social Marketing for Health Communication	
COMM 5035G	Selected Topics in Communication	
COMM 5333G	Theories of Mass Communication	
COMM 5335G	Public Relations Campaigns in Health and Science	
COMM 7300	Applied Crisis Communication Theory	
COMM 7400	Health Communication	
COMM 7500	Selected Topics in Communication	
COMS 5330G	Communication Theory	
COMS 5331G	Communication and Conflict	
COMS 5332G	Nonverbal Communication	
COMS 5333G	Communication and Gender	
COMS 5334G	Interpersonal Communication in the Workplace	
COMS 5335G	Family Communication	
COMS 5530G	Rhetoric	
or WRIT 5330G	Rhetoric	
COMS 7300	Professional Communication Presentation Skills	
COMS 7400	Communication Training and Development	
LEAD 7300	Selected Topics in Leadership Studies	
LEAD 7400	Contemporary Issues in Leadership	
PSYC 6150	Conflict Resolution	
PSYC 6300	Leadership and Group Dynamics	
WRIT 5510G	Writing for the Nonprofit Sector	
WRIT 5550G	Publication Design	

WRIT 5570G	Advanced Writing, Rhetoric, and Culture
WRIT 6030	Selected Topics in Writing and Linguistics
WRIT 6110	Managing Digital Documents
WRIT 6133	Usability and User Experience
WRIT 7110	Applied Ethics in Professional and Technical Communication
WRIT 7120	Rhetorics of Health and Medicine
Approved Elective	
Total Credit Hours	15

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of History

The graduate programs in the Department of History (M.A. in History, Certificate in Public History) are designed to serve the diverse needs of graduate students, whether they seek a solid grounding in graduate study as preparation for entry into doctoral programs, wish to earn a degree as part of their professional development, or are interested in pursuing careers as public historians, archivists, or librarians.

By emphasizing the complexities and interconnectedness of the past, the graduate programs in History seek to instill in students a sense of curiosity and to develop critical thinking, research, communication, and analytical skills — skills relevant to a variety of careers.

Reflecting the missions of Georgia Southern University and the College of Arts and Humanities, the department fosters a culture of close engagement with students, combines theory with practice, and extends the learning environment beyond the classroom to promote life-long learning and growth.

Programs

Master's

- History M.A. (Concentration in Public History) (p. 55)
- History M.A. (Non-Thesis) (p. 55)
- History M.A. (Thesis) (p. 56)

Certificates

- Certificate in Public History (p. 54)

Certificate in Public History

Certificate Requirements: 18 Credit Hours

Admission Requirements

Students who wish to obtain the Certificate in Public History need not be enrolled in the M.A. in History program but must still apply and be admitted to the College of Graduate Studies.

Regular

Applicants seeking admission to the Certificate in Public History must have:

1. Completed requirements for the Bachelor's degree in a college accredited by the proper regional accrediting associations.
2. A 3.0 (4.0 scale) cumulative grade point average or higher on all undergraduate work, with a 3.0 cumulative GPA in history and no grade in history lower than a "C".
3. An undergraduate major or the equivalent in history. Students with majors in other fields of study are given equal consideration for admission providing they either have
 - a. three years of history-related professional work experience OR
 - b. at least 15 credits (or quarter-system equivalent) of history (at least 12 credits at the upper division level and a total of 30 credits in the social sciences and humanities).
4. Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
5. A statement of purpose (approximately 250 words) outlining the applicant's interest in graduate study in public history.

Provisional

Non-traditional students and applicants not meeting the above requirements may be considered for Provisional (Probationary) admission as determined on a case-by-case basis.

Program of Study

			Credit Hours
Required Courses			
HIST 7638	Research Prospectus		
HIST 7651	Graduate Seminar in Public History		
HIST 7781	Professional Internship in Public History ¹		
HIST 7900	Non-Thesis Project in Public History ²		
Electives in Public History ³			
Total Credit Hours			18

¹ Internships are 150 hours.

² In this course, students must complete a 6,000 - 10,000 word technical report that must be approved by a three-person faculty committee and orally defended.

³ Public History elective courses at the 5000-level or above.

Other Program Requirements

- Students enrolled in the M.A. in History program must complete the requirements for either the Thesis or Non-Thesis option as listed on the M.A. in History program pages.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

History M.A. (Concentration in Public History)

Degree Requirements: 33 Credit Hours

Application Deadlines

February 1, for Fall enrollment applications. Although later applications will be considered, applicants meeting this deadline will be given priority consideration for available graduate assistantships.

Admission Requirements

Regular

Applicants seeking admission to the graduate program in history must have:

1. Completed requirements for the Bachelor's degree in a college accredited by the proper regional accrediting associations.
2. A 3.0 (4.0 scale) cumulative grade point average or higher on all undergraduate work, with a 3.0 cumulative GPA in history and no grade in history lower than a "C."
3. Minimum Graduate Record Examination (GRE) scores of 550 Verbal plus 500 Quantitative or 4.0 Analytical Writing for applicants who took the GRE prior to August 2011; or minimum scores of 156 Verbal plus 144 Quantitative or 4.0 Analytical Writing for applicants who took the exam after July 31, 2011. Lower test scores may be considered but the applicant will need strong evidence of the ability to perform satisfactorily in graduate level work.
4. An undergraduate major or the equivalent in history. Students with majors in other fields of study are given equal consideration for admission providing they have at least 15 credits (or quarter-system equivalent) of history (at least 12 credits at the upper division level) and a total of 30 credits in the social sciences and humanities.
5. Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
6. A statement of purpose (approximately 250 words) outlining the applicant's interest in graduate study in history.

Provisional

Non-traditional students and applicants not meeting the above requirements may be considered for Provisional (Probationary) admission as determined on a case-by-case basis.

Exclusion Policy:

A graduate student enrolled in the History MA Program or Public History Certificate Program will be excluded from continuing in the program for receiving a grade of "F" in any course, or for failure to meet the terms of academic probation.

Program of Study

The department offers thesis and non-thesis options and a concentration in public history.

The degree candidate for a Master of Arts in History with a concentration in Public History will take 33 hours of course work, which includes the following:

Program of Study

Required Courses	Credit Hours
HIST 7630 The Historian's Craft	21

HIST 7638	Research Prospectus ¹	
HIST 7651	Graduate Seminar in Public History	
HIST 7781	Professional Internship in Public History ²	
HIST 7900	Non-Thesis Project in Public History ³	
Two 7000-level Graduate Reading Seminars ⁴		
Electives		12
Four history elective courses (at the 5000G-level or above)		
Total Credit Hours		33

- ¹ Students who enter the History M.A. program with a concentration in Public History after having completed the Graduate Certificate in Public History will substitute an additional Reading Seminar for Research Prospectus.
- ² Internships are 150 hours.
- ³ This course concludes with a 6,000-10,000 word technical report on the final project that is defended orally before a committee. With the permission of the Director of Graduate Studies this course may be completed simultaneously with the Professional Internship in History.
- ⁴ One seminar must be outside the candidate's field of concentration.

Other Program Requirements

- The student must also pass a reading-knowledge examination in an appropriate foreign language. (Prior completion of coursework in a foreign language through the fourth semester at the intermediate level with a grade of C or better shall exempt students from the foreign language exam.)
- The student must also pass an oral defense of the non-thesis project in public history.
- Two elective courses may be taken outside the Department of History.
- The College of Graduate Studies limits independent study to 6 credit hours.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

History M.A. (Non-Thesis)

Degree Requirements: 33 Credit Hours

Application Deadlines

February 1, for Fall enrollment applications. Although later applications will be considered, applicants meeting this deadline will be given priority consideration for available graduate assistantships.

Admission Requirements

Regular

Applicants seeking admission to the graduate program in history must have:

1. Completed requirements for the Bachelor's degree in a college accredited by the proper regional accrediting associations.

- A 3.0 (4.0 scale) cumulative grade point average or higher on all undergraduate work, with a 3.0 cumulative GPA in history and no grade in history lower than a "C."
- Minimum Graduate Record Examination (GRE) scores of 550 Verbal plus 500 Quantitative or 4.0 Analytical Writing for applicants who took the GRE prior to August 2011; or minimum scores of 156 Verbal plus 144 Quantitative or 4.0 Analytical Writing for applicants who took the exam after July 31, 2011. Lower test scores may be considered but the applicant will need strong evidence of the ability to perform satisfactorily in graduate level work.
- An undergraduate major or the equivalent in history. Students with majors in other fields of study are given equal consideration for admission providing they have at least 15 credits (or quarter-system equivalent) of history (at least 12 credits at the upper division level) and a total of 30 credits in the social sciences and humanities.
- Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
- A statement of purpose (approximately 250 words) outlining the applicant's interest in graduate study in history.

- The student must also pass an oral defense of the non-thesis project.
- Two elective courses may be taken outside of the Department of History.
- The College of Graduate Studies limits independent study to 6 credit hours.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

History M.A. (Thesis)

Degree Requirements: 33 Credit Hours

Application Deadlines

February 1, for Fall enrollment applications. Although later applications will be considered, applicants meeting this deadline will be given priority consideration for available graduate assistantships.

Admission Requirements

Regular

Applicants seeking admission to the graduate program in history must have:

- Completed requirements for the Bachelor's degree in a college accredited by the proper regional accrediting associations.
- A 3.0 (4.0 scale) cumulative grade point average or higher on all undergraduate work, with a 3.0 cumulative GPA in history and no grade in history lower than a "C."
- Minimum Graduate Record Examination (GRE) scores of 550 Verbal plus 500 Quantitative or 4.0 Analytical Writing for applicants who took the GRE prior to August 2011; or minimum scores of 156 Verbal plus 144 Quantitative or 4.0 Analytical Writing for applicants who took the exam after July 31, 2011. Lower test scores may be considered but the applicant will need strong evidence of the ability to perform satisfactorily in graduate level work.
- An undergraduate major or the equivalent in history. Students with majors in other fields of study are given equal consideration for admission providing they have at least 15 credits (or quarter-system equivalent) of history (at least 12 credits at the upper division level) and a total of 30 credits in the social sciences and humanities.
- Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
- A statement of purpose (approximately 250 words) outlining the applicant's interest in graduate study in history.

Provisional

Non-traditional students and applicants not meeting the above requirements may be considered for Provisional (Probationary) admission as determined on a case-by-case basis.

Exclusion Policy:

A graduate student enrolled in the History MA Program or Public History Certificate Program will be excluded from continuing in the program for

Provisional

Non-traditional students and applicants not meeting the above requirements may be considered for Provisional (Probationary) admission as determined on a case-by-case basis.

Exclusion Policy

A graduate student enrolled in the History MA Program or Public History Certificate Program will be excluded from continuing in the program for receiving a grade of "F" in any course, or for failure to meet the terms of academic probation.

Program of Study

The department offers thesis and non-thesis options and a concentration in public history.

The degree candidate for a Master of Arts in History will take 33 hours of course work, which includes the following:

	Credit Hours
Required Courses	21
HIST 7630 The Historian's Craft	
HIST 7638 Research Prospectus	
HIST 7990 Non-Thesis Project in History ²	
Four 7000-level HIST Graduate Reading Seminars ¹	
Electives	12
Four history elective courses (at the 5000G-level or above)	
Total Credit Hours	33

¹ At least one seminar must be outside the candidate's field of concentration. A seminar in Public History meets this requirement.

² As part of this course, the candidate will produce an article-length paper (approximately 10,000 words) that is defended orally before a committee. Students pursuing the Graduate Certificate in Public History simultaneously with the Non-Thesis Option substitute HIST 7900 Non-Thesis Project in Public History.

Other Program Requirements

- The student must also pass a reading-knowledge examination in an appropriate foreign language. (Prior completion of coursework in a foreign language through the fourth semester at the intermediate level with a grade of C or better shall exempt students from the foreign language exam.)

receiving a grade of "F" in any course, or for failure to meet the terms of academic probation.

Program of Study

The department offers thesis and non-thesis options and a concentration in public history.

The degree candidate for a Master of Arts in History will take 33 hours of course work, which includes the following:

Required Courses	Credit Hours
HIST 7630 The Historian's Craft	21
HIST 7638 Research Prospectus	
HIST 7999 Thesis (Course must be taken twice.)	
Three 7000-level HIST Graduate Reading Seminars ¹	
Electives	12
Four history elective courses (at the 5000G-level or above)	
Total Credit Hours	33

¹ One seminar must be outside the candidate's field of concentration. A seminar in Public History meets this requirement.

Other Program Requirements

- The student must also pass a reading-knowledge examination in an appropriate foreign language. (Prior completion of coursework in a foreign language through the fourth semester at the intermediate level with a grade of C or better shall exempt students from the foreign language exam.)
- The student must also pass an oral defense of the thesis paper.
- Two elective courses may be taken outside of the Department of History.
- The College of Graduate Studies limits independent study to 6 credit hours.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Literature

The graduate program in English leads students to the Master of Arts in English degree. It prepares its students for a variety of careers in publishing, public relations, teaching, and advanced doctoral work. Students who enroll in the Master of Arts program in English enjoy the engaging atmosphere of graduate study and work closely with faculty members. The program fosters a genuine sense of community while providing students with a range of professional development opportunities, which is unusual for a graduate program of its size.

The faculty of the program are all published scholars with a wide variety of specialties. The program is dedicated to excellence in teaching and the development of a fertile learning environment, which is exemplified by a free exchange of ideas, high academic expectations, and individual responsibility for academic achievement.

In keeping with the broader institutional vision:

- We create learning experiences of the highest quality, informed by our individual scholarly practice, research, and creative activities.
- We offer a student-centered environment enhanced by technology and transcultural experiences.
- We seek to instill the core values of integrity, civility, kindness, collaboration, and a commitment to lifelong learning, wellness, and social responsibility.
- We prepare our students to achieve academic excellence, develop their analytic skills, enhance their creativity, and embrace their responsibilities as citizens of their communities, their nations, and the world.

Programs

Master's

- English M.A. (p. 57)

English M.A.

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular

- Completed requirements for the Bachelor's degree in a college accredited by the appropriate regional accrediting associations.
- A 3.0 (4.0 scale) cumulative grade point average or higher on all undergraduate work.
- An undergraduate major or the equivalent in the proposed field of study.
- Two letters of recommendation by persons familiar with the applicant's academic experience.
- A sample of the applicant's scholarly writing of at least 12-15 pages.
- Statement of Purpose (250-500) words. This statement should address the applicant's academic achievements and major accomplishments, contributions to or experiences in this field of study, pertinent extra-curricular activities, and the reasons why he or she wishes to attend Georgia Southern. While the personal statement is only one of many factors the graduate admissions committee considers when making admission decisions, it helps provide context for the rest of the application.

Provisional

Provisional admission is sometimes possible if a candidate has a 2.75 (4.0 scale) or higher cumulative grade point average on undergraduate college work. Students who do not meet provisional requirements may appeal to a departmental graduate committee for admission.

Program of Study

Required Hours	Credit Hours
ENGL 7131 Introduction to Graduate Studies	22
ENGL 7618 Thesis Preparation	
ENGL - Six seminars at the 6000 or 7000 level	
Electives (courses at the ENGL 5000G level or additional ENGL seminars)	
Select 9 credit hours of Electives	9

Up to six credit hours may be taken in other disciplines (no more than one course per department) upon approval of the Director.

Thesis	
Thesis (see below for more information)	5
Total Credit Hours	36

In cooperation with a thesis advisor and committee, the student will write an M.A. thesis of 10,000-12,000 words, not counting Notes and Works Cited. (With the approval of the thesis director, the student may write a longer thesis.) The student must pass an oral examination consisting of a discussion of the thesis and of questions related to it. In depth and scope, the thesis must demonstrate originality in research as well as independent and critical judgment in interpreting materials. The major professor shall supervise the research, direct the writing of the thesis, and, in consultation with the second and third readers, approve the thesis in its final form. See the Graduate Student Manual for additional Thesis information. Prior to beginning the thesis, the student should have the supervisor complete a thesis Prospectus Form to be approved by the department and the Graduate College. For more information, consult the M.A. English web page at on the College of Arts and Humanities website.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of World Languages and Cultures

The M.A. in Spanish program prepares students to use their linguistic proficiency and cultural knowledge to function successfully in today's global environment.

Faculty members create a near total immersion language environment in the classroom in which both students and faculty use the target language all the time. Faculty strive to create an environment of engagement in which students internalize the value of learning languages and understanding other cultures. Students practice the language competencies of reading, writing, speaking, and listening by working collaboratively and individually on activities and projects both in and outside the classroom with guidance and feedback from their instructors. The Department of World Languages and Cultures offers a variety of courses that engage the student in discussions of literary, cultural, social, philosophical, political, historical and contemporary texts and contexts. By focusing on these areas, we prepare students to be highly competent both linguistically and culturally so that they are able to function successfully in today's global environment. The Department of World Languages and Cultures also offers several highly successful study abroad programs in Spain and Latin America. The M.A. in Spanish program serves not only students who major or minor in a world language, but it also serves students who majored in other disciplines, but who can utilize advanced knowledge of Spanish to enhance their skillset and goals.

By creating an environment in which students master both linguistic competence and cultural sensitivity, the M.A. in Spanish program supports the university's broader institutional vision of graduating students who embrace core values expressed through integrity, civility, kindness,

collaboration, and a commitment to lifelong learning, wellness, and social responsibility.

Programs

Master's

- Spanish M.A. (p. 58)

Spanish M.A.

Degree Requirements: 30 Credit Hours

Admission Requirements

Regular

1. Completed requirements for the Bachelor's degree in a college accredited by the appropriate regional accrediting associations or a Ministry of Education approved institution if an international student.
2. A 3.0 (4.0 scale) cumulative grade point average or higher on all upper-division undergraduate work in which the language of instruction was Spanish.
3. An undergraduate major or the equivalent in the proposed field of study or permission of the graduate director and the chair of the department.
4. Two letters of recommendation by persons familiar with the applicant's academic experience.
5. Minimum oral and writing proficiency ratings of Intermediate High (ACTFL Standards) as determined by a trained ACTFL Proficiency evaluator (the department has trained evaluators).

Provisional

Students who do not meet the requirements for regular admission may appeal to the departmental graduate director for provisional admission.

Program of Study

	Credit Hours
Candidates for the M.A. in Spanish must complete a total of 30 credits. The hours are divided as follows:	
24 credit hours of graduate-level course work in Spanish	24
six (6) credit hours in Spanish or in a related field (approved by the graduate director) ¹	6
Total Credit Hours	30

¹ Note: a maximum of twelve (12) credit hours at the 5000G level may count toward the degree

Other Program Requirements

Comprehensive Exams

All degree candidates will take comprehensive written and oral examinations.

Students who fail the Comprehensive Exams may appeal to retake the exams one additional time. Students must retake the Comprehensive Exams within one year of their original attempt. Under no circumstances may the Comprehensive Exams be taken a third time. Students do not need to be enrolled in courses in order to retake the Comprehensive Exams.

Dual Enrollment in the M.A. in Spanish and the M.A.T. in Spanish (42 Credit Hours)

Students may elect to dual enroll in the M.A. in Spanish and the M.A.T. in Spanish programs (P-12 Education with Teaching Field in Spanish). Students can complete the requirements of the M.A. and certify at the same time. Students must meet the admission requirements for both programs in order to be dual enrolled.

M.A.T Admission Requirements in Addition to the M.A.

- Hold a bachelor's degree from a regionally accredited institution.
- Present a transcript evaluation by the College of Education's Director of the Graduate Academic Services Center, and completion of specified prerequisite content course work.
- Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
- Present a total adjusted GPA of 2.75 or higher on all teaching field course work.
- For Study Concentration Four (Spanish), candidates are not required to take either the MAT or the GRE; rather, they must pass an Oral Proficiency Interview and a Writing Proficiency Test in Spanish at the ACTFL-defined IH or above (tests administered by the Department of World Languages and Cultures).
- Submit passing scores on the GACE Program Admission Assessment exam or be exempt by acceptable SAT, ACT, or GRE scores.
- Submit a passing score on the GACE Content Assessment in the area for which one is seeking certification.
- Complete the state-required Georgia Educator Ethics--Program Entry (350) assessment. A minimum score is not required.
- Qualify for a Georgia Pre-Service certificate or Induction Pathway 4 certificate (see Certification section in the Graduate Catalog).
- Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
- Acknowledge "Disclosure and Affirmation" statements that address the Code of Ethics for Educators and the need for tort liability insurance.
- International applicants and U.S. citizens whose native language is not English must demonstrate competence in English. Applicants must pass an Oral Proficiency Interview and a Writing Proficiency Test in English at the ACTFL-defined IH or above (tests administered by the Department of World Languages and Cultures).
- If an applicant was previously enrolled in an initial teacher preparation program, an interview must be completed with the Program Coordinator prior to admission to the program.

Prerequisite

Students must take Foundations of Technology-Enabled Learning either as an undergraduate (ITEC 5233) or as a graduate (ITEC 5233G) (this course may also be taken concurrently with Step One below). Students may pursue the M.A. while awaiting official entry into the M.A.T. program.

Combined Program of Study, 42 Credit Hours

	Credit Hours
Step One - Education and Foreign Language Pedagogy and Supervised Practicum.	
The following courses are prerequisites to Step Two	
EDUF 7130 Learning Theories and Applications	3
EDUR 7130 Educational Research	3

FORL 6431 Foreign Language Methods P-8	3
FORL 6432 Foreign Languages Methods 9-12	3
FORL 6433 Practicum in Foreign Languages	3
SPAN XXXX Graduate level Spanish courses	18
SPED 6130 Introduction to Special Education	3

Step Two - Student Teaching/Supervised Internship 6

Candidates who are not teaching full-time enroll in ESED 6796 - Student Teaching in P-12 Education

Candidates who are currently teaching full-time on a non-renewable teaching certificate enroll in ESED 6799 - Supervised Internship

Total Credit Hours 42

Other Program Requirements

- Comprehensive exams.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Department of Writing and Linguistics

The Department of Writing and Linguistics, in conjunction with the College of Education, offers an online certificate program in Teaching English to Speakers of Other Languages (TESOL) with an emphasis in Applied Linguistics.

Writing and Linguistics also teaches courses in the Master of Arts in Professional Communication and Leadership program on both the Armstrong and Statesboro campuses. The MA PCL program is directed by the Department of Communication Arts.

Programs

Certificates

- Teaching English to Speakers of Other Languages (TESOL)/Applied Linguistics Certificate (Online) (p. 59)

Teaching English to Speakers of Other Languages (TESOL)/Applied Linguistics Certificate (Online)

Certificate Requirements: 18 Credit Hours

Admission Requirements

Regular

A student normally must have the following items in his or her portfolio:

1. Completed requirements for the Bachelor's degree in a college accredited by proper regional accrediting association or the equivalent at a recognized international university.
2. A 2.75 (4.0 scale) cumulative grade point average in undergraduate work.
3. Regular admission is typically offered to applicants who fulfill criteria set by the College of Graduate Studies (COGS). Note: Applicants to graduate certificate programs do not submit GRE scores.
4. Three (3) letters of recommendation from persons familiar with the applicant's academic or employment experience.
5. Statement of career goals and objectives.

International Students

In addition to the items above, international students for whom English is not a first or native language must have the following TOEFL scores:

1. Paper Based Test - score of 600 or higher and TWE (Test of Written English) - score of 5 or higher; or
2. Internet-based Test (iBT) - Reading: 22 or higher ("high"); Listening: 22 or higher ("high"); Speaking: 26 or higher ("good"); Writing: 24 or higher ("good") for a total score of 94 or higher.

The TOEFL will be waived for students who have graduated from a U.S. college or university.

Recommended Background

Individuals applying to the Graduate Certificate program should have an interest in education and language study developed through work in disciplines including but not limited to education, English, foreign languages, linguistics, or writing or complementary areas in the humanities or social sciences.

Program of Study

The Graduate Certificate program requires a total of 18 credits and is offered fully online. It takes a total of one year to complete the six-course sequence.

	Credit Hours
Required Courses	
LING 5133G English Grammar for ESL/EFL Teachers	
LING 5233G Teaching English Internationally	
LING 5530G Sociolinguistics	
LING 6131 Teaching ESL/EFL Pronunciation and Speaking	
TCLD 6231 Cultural Diversity and ESOL/TCLD	
TCLD 6235 Methods for Teaching ESOL/TCLD	
Total Credit Hours	18

Please Note: This certificate program **does not** lead to State of Georgia, Professional Standards Commission-issued teacher certification.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)

Email: gradschool@georgiasouthern.edu

Fred and Dinah Gretsch School of Music

The graduate programs in Music (M.M. Music, Certificate in Music Performance) prepare students with advanced technical and artistic skills for a career in a music-related profession, to conduct creative work, inquiry, and investigation, and to act independently as a performer, scholar, and/or practitioner by achieving in-depth knowledge and competency in a specific concentration area. This will be accomplished through a program of study with concentration areas in composition, conducting, music education, music technology, and/or performance as appropriate to the goals and aspirations of the student.

The MM program supports the college and university missions as it aims to create a culture of student engagement that bridges theory with practice, extends learning beyond the classroom, and promotes academic excellence and student success. This degree is designed for individuals with a Bachelor's Degree in Music who would like to hone their musical skills to a higher level, to pursue a post-baccalaureate degree for professional advancement, or to prepare for admission to a Doctoral program in music.

The Certificate in Music Performance program offers a one-year, intensive post-baccalaureate experience in performance. It is intended for students who want more training in applied music after the bachelor's degree, but who do not desire an advanced degree.

Note: Graduate programs in the Fred and Dinah Gretsch School of Music are available only on the Statesboro Campus.

Programs

Master's

- Music M.M. (Concentration in Composition) (p. 61)
- Music M.M. (Concentration in Conducting) (p. 62)
- Music M.M. (Concentration in Music Education) (p. 63)
- Music M.M. (Concentration in Music Technology) (p. 64)
- Music M.M. (Concentration in Performance) (p. 65)

Certificates

- Certificate in Music Performance (p. 60)

Certificate in Music Performance

Certificate Requirements: 14 Credit Hours Program

The graduate Music Performance Certificate program consists of 14 credits devoted to acquiring advanced performance skills through intensive work in applied lessons and solo/ensemble performance. It may serve as either a self-standing advanced capstone experience that builds on an undergraduate music performance degree or the certificate credit may transfer toward filling the requirements of Master of Music degree with a concentration in Music Performance provided that the student meets full admission requirements for the M.M.

Admission Requirements

Prospective students must be admitted by the College of Graduate Studies as a Non-Degree Certificate student, satisfying the following requirements:

1. Completion of a Bachelor's degree in music or its equivalent with a minimum 2.7 cumulative GPA or its equivalent.
2. A satisfactory audition. Please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>.
3. Submission of official copies of all undergraduate and, if appropriate, graduate transcripts.
4. Two letters of recommendation from professionals acquainted with the student's performance abilities and experience.
5. A personal statement that includes a description of career goals and reasons for applying to the graduate Music Performance Certificate program. Prospective students should indicate in this statement whether they intend to proceed to the M.M. degree following the certificate or whether they intend to complete it as a self-standing program. Students who intend to proceed are required to formally apply for acceptance to the M.M. while completing the certificate, and they must meet the normal M.M. admission requirements in order to be considered for acceptance.
6. International students whose first language is not English and whose undergraduate degree was not completed at an institution where the primary language of instruction was English must have official TOEFL or IELTS scores submitted directly from the Testing Service to Georgia Southern University. For consideration to be admitted to the certificate program, a minimum TOEFL score of 70 or a minimum IELTS score of 6 is required. In order to continue to the M.M. degree at the completion of the certificate, a minimum TOEFL score of 80 with subscores of at least 20 in both speaking and writing is required, or an IELTS score of at least 6.5, with no single subscore below 6.0. International students who meet all other admission requirements for the certificate but are deficient in English will normally be conditionally admitted. Conditionally admitted students must successfully complete the highest level in the university's English Language Program (ELP) and achieve a minimum score of 70 on the ELP's standardized English proficiency exam prior to matriculating into the certificate program and taking any music classes and a minimum score of 80 prior to matriculating into the M.M. program.

Program of Study

	Credit Hours
Required Courses:	14
MUSC 5030G Selected Topics Music Literature or MUSC 7039 Selected Topics in Music Pedagogy	
MUSA 7XXX Applied Lessons	
MUSA 7191 Recital	
MUSE 6XXX Large Ensemble	
Additional 2 credit hours from MUSE (large or small ensemble), MUSC 5030G/MUSC 7039 or other course approved by the advisor.	
Total Credit Hours	14

Note: Large ensembles are: Wind Symphony (MUSE 6211), Symphonic Wind Ensemble (MUSE 6213), University Singers (MUSE 6311), Southern Chorale (MUSE 6312), Orchestra (MUSE 6411) and, for pianists, Accompanying (MUSE 6514). Opera Theatre (MUSE 6314) may be counted as either a large or small ensemble. All other MUSE 6XXX numbers are small ensembles, as well as Coaching for Singers (MUSA 5110G).

Music Theory Proficiency for Students Intending to Continue to a M.M. Degree

Students declaring an intention to continue to a M.M. degree will be given the M.M. Departmental Entrance Exam at the beginning of their certificate program. If the score on the theory section falls below the passing level, they will be required to either take undergraduate music theory courses or to participate in a graduate theory review course, typically during Fall semester, so they are able to enroll in all courses required for the MM program upon admission. None of these remedial courses count toward the certificate.

Typical Course Sequence

First Year	Credit Hours	Spring	Credit Hours
Fall			
MUSA 7XXX Applied Lessons		2 MUSA 7XXX Applied Lessons	2
MUSC 5030G or 7039		3 MUSA 7191 (MUSA 7XXX Applied Lessons)	3
MUSE 6XXX Large Ensemble		1 MUSE 6XXX Large Ensemble	1
MUSE 6XXX Small Ensemble		1 MUSE 6XXX Small Ensemble	1
		7	7

Total Credit Hours 14

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Music M.M. (Concentration in Composition)

Degree Requirements: 33 Credit Hours

Admission Requirements

Regular

1. A completed bachelor's degree in music or equivalent.
2. A minimum 3.0 (4.0 scale) cumulative grade point average in undergraduate work.
3. Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
4. Requirements pertinent to the student's intended area of concentration:
 - a. Composition: satisfactory sample scores for at least three different types of compositions
 - b. Conducting: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>) and a satisfactory agreement with the conducting faculty committee about how the practical conducting requirement will be managed. Generally, full-time students will be assigned to work with various University ensembles; other students may request permission to work with an ensemble (such as a school band or choir) with which they are currently involved.

- c. Music Education: Level 4 certification by the State of Georgia or its equivalent
- d. Music Technology: a statement of purpose and a portfolio of previous work in music technology.
- e. Performance: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>).
5. International students whose first language is not English and whose undergraduate degree was not completed at an institution where the primary language of instruction was English must have official TOEFL or IELTS scores submitted directly from the Testing Service to Georgia Southern University. For consideration to be admitted to the M.M. program, a minimum TOEFL score of 80, with subscores of at least 20 in both speaking and writing is required, or an IELTS scores of at least 6.5, with no single subscore below 6.0. International students who meet all other admission requirements but who are deficient in English will normally be conditionally admitted. Conditionally admitted students must successfully complete the highest level in the university's English Language Program (ELP) and achieve a minimum score of 80 on the ELP's standardized English proficiency exam prior to matriculating into the M.M. program and taking any music classes. ESL exit level for these students is a MTLEP score of 255, with no subsection lower than 80.

Provisional

Students may be admitted, at the discretion of the graduate admissions committee, on a provisional basis if one or more of the requirements listed above are judged to be marginal. Specific provisions for exiting provisional status will be set in each case by the admissions committee and must be satisfied before proceeding past the first 12 credits of course work.

Departmental Entrance Examination

All students entering the program must pass a Departmental Entrance Examination to demonstrate acceptable undergraduate-level proficiency in music theory, analysis, and history. This examination is administered online prior to the start of the student's first semester, and details about the contents of the test and its administration will be sent to each student after s/he has been admitted. Students who do not pass the examination will be required to take a review course and may not take Advanced Analytical Techniques (MUSC 7331) until they have passed the review course. Students who cannot pass the review course will be dropped from the program.

All M.M. candidates are required to pass a comprehensive oral examination, covering coursework and their recital or final project.

Program of Study

	Credit Hours
Required Courses:	15
MUSA 7191 Recital	
MUSA 7192 Composition (three semesters @ 2 credit hours) ¹	
MUSC 6131 Music Reference Tools and Resources	
MUSC 7331 Advanced Analytical Techniques	
Select one of the following music history courses from the series: ²	3
MUSC 5231G Music in the Classic Period	
MUSC 5232G Music in the Romantic Period	
MUSC 5233G Music in the Contemporary Period	

MUSC 5234G	History of Opera	
MUSC 5236G	Jazz History	
MUSC 5239G	Selected Topics in Music History	
Select one of the following:		3
MUSC 7530	Digital Audio Montage	
MUSC 7533	Sound Design and Processing	
MUSC 7534	Interactive Media	
MUSC 7536	Audiovisual Composition	
Select 12 credit hours of Free Electives Approved by Student's Advisor ³		12
Total Credit Hours		33

- ¹ MUSA 7192 must be taken over the course of three semesters (2 credit hours per course).
- ² *Music in the Contemporary Period (MUSC 5233G) is strongly recommended for students in Composition.*
- ³ Free Electives are courses that can be taken in any subject area.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Music M.M. (Concentration in Conducting)

Degree Requirements: 33 Credit Hours

Admission Requirements

Regular

- A completed bachelor's degree in music or equivalent.
- A minimum 3.0 (4.0 scale) cumulative grade point average in undergraduate work.
- Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
- Requirements pertinent to the student's intended area of concentration:
 - Composition: satisfactory sample scores for at least three different types of compositions
 - Conducting: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>) and a satisfactory agreement with the conducting faculty committee about how the practical conducting requirement will be managed. Generally, full-time students will be assigned to work with various University ensembles; other students may request permission to work with an ensemble (such as a school band or choir) with which they are currently involved.
 - Music Education: Level 4 certification by the State of Georgia or its equivalent

- d. Music Technology: a statement of purpose and a portfolio of previous work in music technology.
 - e. Performance: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>).
5. International students whose first language is not English and whose undergraduate degree was not completed at an institution where the primary language of instruction was English must have official TOEFL or IELTS scores submitted directly from the Testing Service to Georgia Southern University. For consideration to be admitted to the M.M. program, a minimum TOEFL score of 80, with subscores of at least 20 in both speaking and writing is required, or an IELTS scores of at least 6.5, with no single subscore below 6.0. International students who meet all other admission requirements but who are deficient in English will normally be conditionally admitted. Conditionally admitted students must successfully complete the highest level in the university's English Language Program (ELP) and achieve a minimum score of 80 on the ELP's standardized English proficiency exam prior to matriculating into the M.M. program and taking any music classes. ESL exit level for these students is a MTLEP score of 255, with no subsection lower than 80.

MUSC 5233G	Music in the Contemporary Period	
MUSC 5234G	History of Opera	
MUSC 5236G	Jazz History	
MUSC 5239G	Selected Topics in Music History	
Select 6 credit hours from additional courses in music literature, music history, music theory, and/or composition		6
Select 6 credit hours of Free Electives Approved by Student's Advisor		6
Total Credit Hours		33

Provisional

Students may be admitted, at the discretion of the graduate admissions committee, on a provisional basis if one or more of the requirements listed above are judged to be marginal. Specific provisions for exiting provisional status will be set in each case by the admissions committee and must be satisfied before proceeding past the first 12 credits of course work.

Departmental Entrance Examination

All students entering the program must pass a Departmental Entrance Examination to demonstrate acceptable undergraduate-level proficiency in music theory, analysis, and history. This examination is administered online prior to the start of the student's first semester, and details about the contents of the test and its administration will be sent to each student after s/he has been admitted. Students who do not pass the examination will be required to take a review course and may not take Advanced Analytical Techniques (MUSC 7331) until they have passed the review course. Students who cannot pass the review course will be dropped from the program.

All M.M. candidates are required to pass a comprehensive oral examination, covering coursework and their recital or final project.

Program of Study

	Credit Hours
Required Courses:	12
MUSA 7191 Recital	
MUSC 6131 Music Reference Tools and Resources	
MUSC 7331 Advanced Analytical Techniques	
MUSC 7633 Advanced Score Reading Techniques	
Select 6 credits of Conducting from either or both of the following:	6
MUSA 7199 Applied Conducting	
MUSC 7630 Seminar in Advanced Conducting	
Select one of the following music history courses from the series:	3
MUSC 5231G Music in the Classic Period	
MUSC 5232G Music in the Romantic Period	

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Music M.M. (Concentration in Music Education)

Degree Requirements: 33 Credit Hours

Admission Requirements

Regular

1. A completed bachelor's degree in music or equivalent.
2. A minimum 3.0 (4.0 scale) cumulative grade point average in undergraduate work.
3. Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
4. Requirements pertinent to the student's intended area of concentration:
 - a. Composition: satisfactory sample scores for at least three different types of compositions
 - b. Conducting: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>) and a satisfactory agreement with the conducting faculty committee about how the practical conducting requirement will be managed. Generally, full-time students will be assigned to work with various University ensembles; other students may request permission to work with an ensemble (such as a school band or choir) with which they are currently involved.
 - c. Music Education: Level 4 certification by the State of Georgia or its equivalent
 - d. Music Technology: a statement of purpose and a portfolio of previous work in music technology.
 - e. Performance: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>).
5. International students whose first language is not English and whose undergraduate degree was not completed at an institution where the

primary language of instruction was English must have official TOEFL or IELTS scores submitted directly from the Testing Service to Georgia Southern University. For consideration to be admitted to the M.M. program, a minimum TOEFL score of 80, with subscores of at least 20 in both speaking and writing is required, or an IELTS scores of at least 6.5, with no single subscore below 6.0. International students who meet all other admission requirements but who are deficient in English will normally be conditionally admitted. Conditionally admitted students must successfully complete the highest level in the university's English Language Program (ELP) and achieve a minimum score of 80 on the ELP's standardized English proficiency exam prior to matriculating into the M.M. program and taking any music classes. ESL exit level for these students is a MTLEP score of 255, with no subsection lower than 80.

Provisional

Students may be admitted, at the discretion of the graduate admissions committee, on a provisional basis if one or more of the requirements listed above are judged to be marginal. Specific provisions for exiting provisional status will be set in each case by the admissions committee and must be satisfied before proceeding past the first 12 credits of course work.

Departmental Entrance Examination

All students entering the program must pass a Departmental Entrance Examination to demonstrate acceptable undergraduate-level proficiency in music theory, analysis, and history. This examination is administered online prior to the start of the student's first semester, and details about the contents of the test and its administration will be sent to each student after s/he has been admitted. Students who do not pass the examination will be required to take a review course and may not take Advanced Analytical Techniques (MUSC 7331) until they have passed the review course. Students who cannot pass the review course will be dropped from the program.

All M.M. candidates are required to pass a comprehensive oral examination, covering coursework and their recital or final project.

Program of Study

	Credit Hours
Required Courses:	15
MUSC 6131 Music Reference Tools and Resources	
MUSC 7231 History and Philosophy of Music Education	
MUSC 7232 Research in Music Learning	
MUSC 7331 Advanced Analytical Techniques	
MUSC 7931 Music Education Final Project	
Select one of the following: (or other music education course approved by advisor)	3
MUSC 7239 Selected Topics in Music Education	
MUSC 7432 Choral Literature	
MUSC 7436 Wind Ensemble Literature Before 1950	
MUSC 7437 Wind Ensemble Literature After 1950	
MUSC 7634 Music and the Brain	
Select one of the following music history courses:	3
MUSC 5231G Music in the Classic Period	
MUSC 5232G Music in the Romantic Period	
MUSC 5233G Music in the Contemporary Period	
MUSC 5234G History of Opera	

MUSC 5236G Jazz History	
MUSC 5239G Selected Topics in Music History	
Select 3 credit hours of Performance from the following:	3
MUSC 7630 Seminar in Advanced Conducting	
Any graduate-level MUSA course(s) (may be repeated for credit)	
Any graduate-level MUSE course(s) (may be repeated for credit)	
Select 9 credit hours of Free Electives approved by the Director of Graduate Studies	9
Total Credit Hours	33

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Music M.M. (Concentration in Music Technology)

Degree Requirements: 33 Credit Hours

Admission Requirements

Regular

1. A completed bachelor's degree in music or equivalent.
2. A minimum 3.0 (4.0 scale) cumulative grade point average in undergraduate work.
3. Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
4. Requirements pertinent to the student's intended area of concentration:
 - a. Composition: satisfactory sample scores for at least three different types of compositions
 - b. Conducting: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>) and a satisfactory agreement with the conducting faculty committee about how the practical conducting requirement will be managed. Generally, full-time students will be assigned to work with various University ensembles; other students may request permission to work with an ensemble (such as a school band or choir) with which they are currently involved.
 - c. Music Education: Level 4 certification by the State of Georgia or its equivalent
 - d. Music Technology: a statement of purpose and a portfolio of previous work in music technology.
 - e. Performance: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>).
5. International students whose first language is not English and whose undergraduate degree was not completed at an institution where the

primary language of instruction was English must have official TOEFL or IELTS scores submitted directly from the Testing Service to Georgia Southern University. For consideration to be admitted to the M.M. program, a minimum TOEFL score of 80, with subscores of at least 20 in both speaking and writing is required, or an IELTS scores of at least 6.5, with no single subscore below 6.0. International students who meet all other admission requirements but who are deficient in English will normally be conditionally admitted. Conditionally admitted students must successfully complete the highest level in the university's English Language Program (ELP) and achieve a minimum score of 80 on the ELP's standardized English proficiency exam prior to matriculating into the M.M. program and taking any music classes. ESL exit level for these students is a MTLEP score of 255, with no subsection lower than 80.

Provisional

Students may be admitted, at the discretion of the graduate admissions committee, on a provisional basis if one or more of the requirements listed above are judged to be marginal. Specific provisions for exiting provisional status will be set in each case by the admissions committee and must be satisfied before proceeding past the first 12 credits of course work.

Departmental Entrance Examination

All students entering the program must pass a Departmental Entrance Examination to demonstrate acceptable undergraduate-level proficiency in music theory, analysis, and history. This examination is administered online prior to the start of the student's first semester, and details about the contents of the test and its administration will be sent to each student after s/he has been admitted. Students who do not pass the examination will be required to take a review course and may not take Advanced Analytical Techniques (MUSC 7331) until they have passed the review course. Students who cannot pass the review course will be dropped from the program.

All M.M. candidates are required to pass a comprehensive oral examination, covering coursework and their recital or final project.

Program of Study

	Credit Hours
Required Courses:	9
MUSC 5630G Music, Technology and Contemporary Culture	
MUSC 6131 Music Reference Tools and Resources	
MUSC 7932 Music Technology Final Project	
Select 9 credits of Music Technology from the following:	9
MUSC 5539G Selected Topics in Music Technology	
MUSC 7530 Digital Audio Montage	
MUSC 7533 Sound Design and Processing	
MUSC 7534 Interactive Media	
MUSC 7536 Audiovisual Composition	
Select one of the following music history courses from the series: ¹	3
MUSC 5231G Music in the Classic Period	
MUSC 5232G Music in the Romantic Period	
MUSC 5233G Music in the Contemporary Period	
MUSC 5234G History of Opera	
MUSC 5236G Jazz History	

MUSC 5239G Selected Topics in Music History	
Select 12 credit hours of Free Electives ²	12
Students should plan with the head of the Music Technology area a combination of graduate-level elective courses from Music, Computer Science, General Technology, Graphics Communication Management, Instructional Technology, or other areas that will maximize the degree's usefulness for their intended career path.	
Total Credit Hours	33

¹ *Music in the Contemporary Period (MUSC 5233G) (3)* is strongly recommended for students in Music Technology.

² Free Electives are courses that can be taken in any subject area.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Music M.M. (Concentration in Performance)

Degree Requirements: 33 Credit Hours

Admission Requirements

Regular

1. A completed bachelor's degree in music or equivalent.
2. A minimum 3.0 (4.0 scale) cumulative grade point average in undergraduate work.
3. Two letters of recommendation by individuals who are familiar with the applicant's potential for successful graduate study.
4. Requirements pertinent to the student's intended area of concentration:
 - a. Composition: satisfactory sample scores for at least three different types of compositions.
 - b. Conducting: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>) and a satisfactory agreement with the conducting faculty committee about how the practical conducting requirement will be managed. Generally, full-time students will be assigned to work with various University ensembles; other students may request permission to work with an ensemble (such as a school band or choir) with which they are currently involved.
 - c. Music Education: Level 4 certification by the State of Georgia or its equivalent.
 - d. Music Technology: a statement of purpose and a portfolio of previous work in music technology.
 - e. Performance: a successful audition (please see the audition process and requirements for specific performance areas at <http://class.georgiasouthern.edu/music/applications/graduate-application/>).

5. International students whose first language is not English and whose undergraduate degree was not completed at an institution where the primary language of instruction was English must have official TOEFL or IELTS scores submitted directly from the Testing Service to Georgia Southern University. For consideration to be admitted to the M.M. program, a minimum TOEFL score of 80, with subscores of at least 20 in both speaking and writing is required, or an IELTS scores of at least 6.5, with no single subscore below 6.0. International students who meet all other admission requirements but who are deficient in English will normally be conditionally admitted. Conditionally admitted students must successfully complete the highest level in the university's English Language Program (ELP) and achieve a minimum score of 80 on the ELP's standardized English proficiency exam prior to matriculating into the M.M. program and taking any music classes. ESL exit level for these students is a MTLEP score of 255, with no subsection lower than 80.

Provisional

Students may be admitted, at the discretion of the graduate admissions committee, on a provisional basis if one or more of the requirements listed above are judged to be marginal. Specific provisions for exiting provisional status will be set in each case by the admissions committee and must be satisfied before proceeding past the first 12 credits of course work.

Departmental Entrance Examination

All students entering the program must pass a Departmental Entrance Examination to demonstrate acceptable undergraduate-level proficiency in music theory, analysis, and history. This examination is administered online prior to the start of the student's first semester, and details about the contents of the test and its administration will be sent to each student after s/he has been admitted. Students who do not pass the examination will be required to take a review course and may not take Advanced Analytical Techniques (MUSC 7331) until they have passed the review course. Students who cannot pass the review course will be dropped from the program.

All M.M. candidates are required to pass a comprehensive oral examination, covering coursework and their recital or final project.

Program of Study

	Credit Hours
Required Courses:	12
MUSA 7191 Recital	
MUSC 5030G Selected Topics Music Literature (with specific topic related to student's performance area)	
MUSC 6131 Music Reference Tools and Resources	
MUSC 7331 Advanced Analytical Techniques	
Complete 6 credits of graduate-level MUSA instruction in the same instrument or voice	6
Select one of the following music history courses from the series:	3
MUSC 5231G Music in the Classic Period	
MUSC 5232G Music in the Romantic Period	
MUSC 5233G Music in the Contemporary Period	
MUSC 5234G History of Opera	
MUSC 5236G Jazz History	

MUSC 5239G Selected Topics in Music History	
Select 12 credit hours of Free Electives approved by student's advisor ¹	12
Total Credit Hours	33

¹ Free Electives are courses that can be taken in any subject area.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

College of Behavioral and Social Sciences

The College of Behavioral and Social Sciences was established July 1, 2018. It is comprised of the School of Human Ecology and Departments of Criminal Justice and Criminology, Political Science and International Studies, Public and Nonprofit Studies, Psychology, and Sociology and Anthropology.

The College offers eleven undergraduate degrees and five graduate degrees.

CBSS Vision

CBSS aims to become a recognized leader in creating safe, strong, and healthy communities through education, research and creative scholarship, and community engagement. CBSS strives for *real-world impacts* in enhancing cultural understanding and belonging; promoting social, behavioral, and emotional health; and fostering vibrant social, civic, and political institutions.

CBSS Mission

CBSS prepares students to be life-long learners, productive citizens, and effective leaders in a diverse and global social world and uses our research expertise to improve the lives of others. Emphasizing high-impact teaching and learning strategies, our programs apply diverse scientific methodologies to behavioral and social issues and work in teams to solve complex problems. By working with faculty and our community partners to make a positive impact on social life, CBSS produces graduates and supports communities ready to meet the challenges of today AND tomorrow.

Culture:

CBSS values the pursuit and dissemination of knowledge about culture, the impact of culture on individuals and groups, and differences between cultures. Culture is the lens through which individuals and groups experience, understand, and evaluate social life and interactions with others. CBSS is committed to educating and increasing the understanding of the historical developments of culture; the influence of culture on behaviors, attitudes, values, and beliefs; and the ways in which culture influences design, development, and interactions across a variety of contexts. People.

Belonging:

Differences between people define social life. CBSS values differences in all forms. CBSS is committed to building inclusive communities and organizations that affirm, value, and engage all identities. In CBSS, everybody belongs *because of* the differences that each individual brings to the classroom, research settings, and community-building processes within the college and across our communities. Purpose.

Science:

Applying a variety of scientific methods to the study of social issues is at the heart of every discipline in the college. CBSS values science as the framework for understanding human behavior, designing spaces and materials that function effectively, analyzing public policy, increasing public safety, understanding political engagement, managing public organizations, and supporting healthy families, among the hundreds of other ways science is used across CBSS to better our communities. Action.

Service:

The work of CBSS is done toward one goal—making a positive difference in the lives of others and in our communities. CBSS directly engages stakeholders across our communities to improve social conditions and quality-of-life. We value the application of our scientific expertise to serving our communities in a variety of roles, including mental health support, family education programs, high-quality child care and education, community-based research, and service on a variety of impactful community organizations. Growing Ourselves to Grow Others.

Find more information about our college at: cbss.georgiasouthern.edu (<https://cbss.georgiasouthern.edu/>)

College Structure

- Department of Criminal Justice and Criminology (p. 68)
- Department of Psychology (p. 72)
- Department of Public and Nonprofit Studies (p. 78)
- Department of Sociology and Anthropology (p. 79)

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Programs

Master's

- Criminal Justice and Criminology M.S. (Emphasis in Criminal Justice) (p. 68)
- Criminal Justice and Criminology M.S. (Emphasis in Criminology) (p. 69)
- Criminal Justice and Criminology M.S. (Emphasis in Cybercrime) (p. 70)
- Psychology M.S. (p. 76)
- Psychology M.S. (Concentration in Behavior Analysis) (p. 77)

- Public Administration M.P.A. (p. 78)
- Social Science M.A. (p. 80)
- Social Science M.A. (Non-Thesis) (p. 80)

Doctoral

- Clinical Psychology Psy.D. (p. 72)

Certificates

- Cybercrime Post-Baccalaureate Certificate (p. 71)

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Department of Criminal Justice and Criminology

The Department of Criminal Justice and Criminology offers two degree programs structured both for students seeking careers or professional advancement in the criminal justice field and for students who ultimately wish to pursue an advanced degree in criminal justice and/or criminology. The degrees are offered through various formats to enhance availability to students. As well, a variety of concentrations are offered to prepare students to work in traditional arenas of criminal justice and criminology, as well as emerging focuses in the field, specifically cybercrime.

Students in the M.S. in Criminal Justice and Criminology program can choose to focus on one of three concentrations: Criminal Justice, Criminology, or Cybercrime. The Criminal Justice concentration is available in both traditional and online tracks. The Criminology Concentration is available only via the traditional track, while the cybercrime concentration is available only via the online track.

Also available to students is the Post-Baccalaureate Certificate in Cybercrime. This Certificate may be completed fully online, however some traditionally formatted courses are classified to meet the requirements of this certificate. All courses in the Cybercrime Certificate program may be applied to the online cybercrime concentration of the M.S. with a major in Criminal Justice and Criminology.

Programs

Master's

- Criminal Justice and Criminology M.S. (Emphasis in Criminal Justice) (p. 68)
- Criminal Justice and Criminology M.S. (Emphasis in Criminology) (p. 69)
- Criminal Justice and Criminology M.S. (Emphasis in Cybercrime) (p. 70)

Certificates

- Cybercrime Post-Baccalaureate Certificate (p. 71)

Criminal Justice and Criminology M.S. (Emphasis in Criminal Justice)

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular Admission

Admission to this program is competitive. At a minimum, for regular admission the applicant must have:

1. A Bachelor's degree from an appropriately accredited, four-year institution in criminal justice/criminology or related field (that adequately prepares students for success in this field.)
2. A 2.75 cumulative grade point average or higher on completed requirements for a baccalaureate degree from an accredited institution. (This application requirement will be waived for applicants who successfully complete the Post-Baccalaureate Cyber Certificate.)
3. Letter of Application detailing: a) academic background and/or professional credentials, b) relevant research and work experience, c) career goals and reasons for enrollment in this program.

4. Two letters of recommendation addressing the applicant's: 1) academic work; 2) professional experience, if any; 3) ability to handle master's level curriculum, and 4) how the applicant can be expected to contribute to the program. (This application requirement will be waived for applicants who successfully complete the Post-Baccalaureate Cyber Certificate.)

Provisional Admission

Students whose GPA is under 2.75 may be granted provisional admission by the graduate faculty committee based on careful review of additional materials submitted.

Reclassification

A student may be reclassified with regular admission providing that they have completed three program or related courses (9 hours), approved by their advisor, with a grade of no less than B for each class. Additional courses may be required to be completed prior to a student's reclassification that do not contribute to these nine hours (such as taking an undergraduate statistics course to prepare for graduate statistics). No more than nine hours may be earned under the provisional admission classification. After nine hours, the student must either be reclassified as a regular admission student or be removed from the program.

Prerequisites for Admission

While an undergraduate degree in criminal justice is not a prerequisite to admission, newly admitted students must be deemed adequately prepared for graduate study in this essentially multidisciplinary area. Students who lack the necessary background may be required to complete additional undergraduate coursework. For example, students who have not successfully completed an undergraduate statistics course may be required to do so prior to enrollment in graduate statistical analysis or research methods courses.

Standards of Progression and Graduation

A. Graduate students must maintain a 3.0 overall grade point average in all graduate courses. A student will be placed on academic probation if he or she earns one (1) C or below. If a student earns two (2) C's or below, the student will be dismissed from the program. There is a one (1) semester waiting period after the first C is earned so that the student has the opportunity to replace the grade and get the GPA back to a 3.0. The student may repeat a class only once to replace a grade.

B. Each student must file a program of study and an application for graduation with Graduate Studies.

C. If any change in the approved program of study is required, an amended program of study, signed by the student and advisor, must be submitted to Graduate Studies.

D. Satisfactory completion of a written comprehensive assessment one semester prior to graduation for the focused coursework option students is required. Students choosing the thesis option must receive a satisfactory score on a formal thesis defense. Students completing practicum must receive a passing grade on the paper required for completion of the course.

E. Students are encouraged to apply for graduation two semesters before the anticipated date of graduation. Note: A copy of the official program of study must accompany the candidate's application.

F. All degree requirements must be completed within seven years.

Program of Study

The M.S. in Criminal Justice & Criminology with an emphasis in Criminal Justice is offered fully online. Students in the seated delivery method

may take seated, hybrid, or online courses. The online delivery method allows students to complete the degree requirements utilizing a fully online delivery method. Students will opt into one of two concentrations, depending on the delivery method they select.

	Credit Hours
Core Requirements	18
CRJU 6811 Criminal Justice Systems: Policy and Process	
CRJU 7631 Criminological Theory	
CRJU 7634 Victims & Victimology	
CRJU 7635 Social Inequalities, Crime, and Justice	
Select two research/analysis tools courses (such as):	
CRJU 7434 Quantitative Research Design	
CRJU 7436 Qualitative Research Design	
CRJU 7437 Statistics for Social Science	
or other analytical tools course as approved by advisor and program coordinator.	
Advanced Work	12
Criminal Justice Emphasis	
Three criminal justice electives and one free elective (traditional and online tracks).	
Capstone Options	6
Students select from three capstone options to complete their final 6 hours of the program:	
Thesis Option:	
Recommended for students who seek to do research for public and non-profit agencies or who seek further educational opportunities, such as a Ph.D. Students must pass the thesis defense.	
Practicum:	
Recommended for students who seek employment in the justice system or adjacent systems' agencies. Students will complete an internship, approved by their advisor and the program coordinator, completing all tasks associated with the internship option. Students will complete a comprehensive paper as part of this course, and must earn a passing score on this paper.	
Free Electives:	
Recommended for students who seek additional substantive information relative to their career track. Specific courses must be approved by their advisor and the program director. Students selecting this option must earn a passing grade on a comprehensive exam.	
Total Credit Hours	36

The M.S. Student Handbook describes additional relevant information for the degree requirements.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Criminal Justice and Criminology M.S. (Emphasis in Criminology)

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular Admission

Admission to this program is competitive. At a minimum, for regular admission the applicant must have:

1. A Bachelor's degree from an appropriately accredited, four-year institution in criminal justice/criminology or related field (that adequately prepares students for success in this field. This application requirement will be waived for applicants who successfully complete the Post-Baccalaureate Cyber Certificate.)
2. A 2.75 cumulative grade point average or higher on completed requirements for a baccalaureate degree from an accredited institution. (This application requirement will be waived for applicants who successfully complete the Post-Baccalaureate Cyber Certificate.)
3. Letter of Application detailing: a) academic background and/or professional credentials, b) relevant research and work experience, c) career goals and reasons for enrollment in this program.
4. Two letters of recommendation addressing the applicant's: 1) academic work; 2) professional experience, if any; 3) ability to handle master's level curriculum, and 4) how the applicant can be expected to contribute to the program. (This application requirement will be waived for applicants who successfully complete the Post-Baccalaureate Cyber Certificate.)

Provisional Admission

Applicants who meet two out of the three requirements outlined for GPA and GRE scores may be granted provisional admission by the graduate faculty committee based on careful review of additional materials submitted.

Reclassification

A student may be reclassified with regular admission providing that they have completed three program or related courses (9 hours), approved by their advisor, with a grade of no less than B. Additional courses may be required to be completed prior to a student's reclassification that do not contribute to these nine hours (such as taking an undergraduate statistics course to prepare for graduate statistics). No more than nine hours may be earned under the provisional admission classification. After nine hours, the student must either be reclassified as a regular admission student or be removed from the program.

Prerequisites for Admission

While an undergraduate degree in criminal justice is not a prerequisite to admission, newly admitted students must be deemed adequately prepared for graduate study in this essentially multidisciplinary area. Students who lack the necessary background may be required to complete additional undergraduate coursework. For example, students who have not successfully completed an undergraduate statistics course may be required to do so prior to enrollment in graduate statistical analysis or research methods courses.

Standards of Progression and Graduation

A. Graduate students must maintain a 3.0 overall grade point average in all graduate courses. A student will be placed on academic probation if he or she earns one (1) C or below. If a student earns two (2) C's or below, the student will be dismissed from the program. There is a one (1) semester waiting period after

the first C is earned so that the student has the opportunity to replace the grade and get the GPA back to a 3.0. The student may repeat a class only once to replace a grade.

B. Each student must file a program of study and an application for graduation with Graduate Studies. Fifty percent of the program of study must be completed at the 6000- 8000 levels.

C. If any change in the approved program of study is required, an amended program of study, signed by the student and advisor, must be submitted to Graduate Studies.

D. Satisfactory completion of a written comprehensive assessment one semester prior to graduation for the coursework option students is required. Students choosing the thesis option must receive a satisfactory score on a formal thesis defense. Students completing practicum must receive a passing grade on the paper required for completion of the course.

E. Students are encouraged to apply for graduation two semesters before the anticipated date of graduation. Note: A copy of the official program of study must accompany the candidate's application.

F. All degree requirements must be completed within seven years.

Program of Study

The M.S. in Criminal Justice & Criminology with an emphasis in Criminology is offered in a seated format. Students in the seated delivery method may take seated, hybrid, or online courses. The M.S. in Criminal Justice & Criminology with an emphasis in Criminology is offered on the Statesboro campus.

	Credit Hours
Core Requirements	18
CRJU 6811 Criminal Justice Systems: Policy and Process	
CRJU 7631 Criminological Theory	
CRJU 7634 Victims & Victimology	
CRJU 7635 Social Inequalities, Crime, and Justice	
Select two research/analysis tools courses (such as):	
CRJU 7434 Quantitative Research Design	
CRJU 7436 Qualitative Research Design	
CRJU 7437 Statistics for Social Science	
or other analytical tools course as approved by advisor and program coordinator.	
Advanced Work	12
In conjunction with their advisor and program coordinator, select the final 12 hours of advanced coursework.	
Criminology Emphasis:	
Three criminology electives and one free elective (traditional track).	
Capstone Options:	6
Students select from three capstone options to complete their final 6 hours of the program:	
Thesis:	
Recommended for students who seek to do research for public and non-profit agencies or who seek further educational opportunities, such as a Ph.D. Students must pass the thesis defense.	
Practicum:	

Recommended for students who seek employment in the justice system or adjacent systems' agencies. Students will complete an internship, approved by their advisor and the program coordinator, completing all tasks associated with the internship option. Students will complete a comprehensive paper as part of this course, and must earn a passing score on this paper.

Free Electives:

Recommended for students who seek additional substantive information relative to their career track. Specific courses must be approved by their advisor and the program director. Students selecting this option must earn a passing grade on a comprehensive exam.

Total Credit Hours

36

The M.S. Student Handbook describes additional relevant information for the degree requirements.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Criminal Justice and Criminology M.S. (Emphasis in Cybercrime)

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular Admission

Admission to this program is competitive. At a minimum, for regular admission the applicant must have:

1. A Bachelor's degree from an appropriately accredited, four-year institution in criminal justice/criminology or related field (that adequately prepares students for success in this field. This application requirement will be waived for applicants who successfully complete the Post-Baccalaureate Cyber Certificate.)
2. A 2.75 cumulative grade point average or higher on completed requirements for a baccalaureate degree from an accredited institution. (This application requirement will be waived for applicants who successfully complete the Post-Baccalaureate Cyber Certificate.)
3. Letter of Application detailing: a) academic background and/or professional credentials, b) relevant research and work experience, c) career goals and reasons for enrollment in this program.
4. Two letters of recommendation addressing the applicant's: 1) academic work; 2) professional experience, if any; 3) ability to handle master's level curriculum, and 4) how the applicant can be expected to contribute to the program. (This application requirement will be waived for applicants who successfully complete the Post-Baccalaureate Cyber Certificate.)

Provisional Admission

Applicants who meet two out of the three requirements outlined for GPA and GRE scores may be granted provisional admission by the

graduate faculty committee based on careful review of additional materials submitted.

Reclassification

A student may be reclassified with regular admission providing that they have completed three program or related courses (9 hours), approved by their advisor, with a grade of no less than B. Additional courses may be required to be completed prior to a student's reclassification that do not contribute to these nine hours (such as taking an undergraduate statistics course to prepare for graduate statistics). No more than nine hours may be earned under the provisional admission classification. After nine hours, the student must either be reclassified as a regular admission student or be removed from the program.

Prerequisites for Admission

While an undergraduate degree in criminal justice is not a prerequisite to admission, newly admitted students must be deemed adequately prepared for graduate study in this essentially multidisciplinary area. Students who lack the necessary background may be required to complete additional undergraduate coursework. For example, students who have not successfully completed an undergraduate statistics course may be required to do so prior to enrollment in graduate statistical analysis or research methods courses.

Standards of Progression and Graduation

- A. Graduate students must maintain a 3.0 overall grade point average in all graduate courses. A student will be placed on academic probation if he or she earns one (1) C or below. If a student earns two (2) C's or below, the student will be dismissed from the program. There is a one (1) semester waiting period after the first C is earned so that the student has the opportunity to replace the grade and get the GPA back to a 3.0. The student may repeat a class only once to replace a grade.
- B. Each student must file a program of study and an application for graduation with Graduate Studies. Fifty percent of the program of study must be completed at the 6000- 8000 levels.
- C. If any change in the approved program of study is required, an amended program of study, signed by the student and advisor, must be submitted to Graduate Studies.
- D. Satisfactory completion of a written comprehensive assessment one semester prior to graduation for the coursework option students is required. Students choosing the thesis option must receive a satisfactory score on a formal thesis defense. Students completing practicum must receive a passing grade on the paper required for completion of the course.
- E. Students are encouraged to apply for graduation two semesters before the anticipated date of graduation. Note: A copy of the official program of study must accompany the candidate's application.
- F. All degree requirements must be completed within seven years.

Program of Study

The M.S. in Criminal Justice & Criminology with an emphasis in Cybercrime is offered fully online. The online delivery method allows students to complete the degree requirements utilizing a fully online delivery method.

CoreRequirements	Credit Hours
	18
CRJU 6811 Criminal Justice Systems: Policy and Process	
CRJU 7631 Criminological Theory	

CRJU 7634	Victims & Victimology
CRJU 7635	Social Inequalities, Crime, and Justice
Select two research/analysis tools courses (such as):	
CRJU 7434	Quantitative Research Design
CRJU 7436	Qualitative Research Design
CRJU 7437	Statistics for Social Science
or other analytical tools course as approved by advisor and program coordinator.	

Advanced Work 12

In conjunction with their advisor and program coordinator, select the final 12 hours of advanced coursework:

Cybercrime Emphasis

Three cybercrime electives and one free elective (online track).

Capstone Options 6

Students select from three capstone options to complete their final 6 hours of the program:

Thesis Option:

Recommended for students who seek to do research for public and non-profit agencies or who seek further educational opportunities, such as a Ph.D. Students must pass the thesis defense.

Practicum:

Recommended for students who seek employment in the justice system or adjacent systems' agencies. Students will complete an internship, approved by their advisor and the program coordinator, completing all tasks associated with the internship option. Students will complete a comprehensive paper as part of this course, and must earn a passing score on this paper.

Free Electives:

Recommended for students who seek additional substantive information relative to their career track. Specific courses must be approved by their advisor and the program director. Students selecting this option must earn a passing grade on a comprehensive exam.

Total Credit Hours 36

The M.S. Student Handbook describes additional relevant information for the degree requirements.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Cybercrime Post-Baccalaureate Certificate

The Cybercrime Certificate is a post-baccalaureate certificate program that may be completed fully online. However, some courses available in the seated format also are classified to meet requirements within this certificate program. This program provides students with specialized skills in cybercrime and digital forensics. All courses in the cybercrime certificate

program may be applied to the online cybercrime concentration of the Master of Science with a major in Criminal Justice and Criminology.

The Cybercrime Certificate is the only one of its kind offered in this region. This certificate is offered online.

Degree Requirements: 18 Credit Hours

Admission Standards

Regular Admission

Admission to this program is competitive. At a minimum, for admission to the certificate program, the applicant must have:

1. A baccalaureate degree from an appropriately accredited four-year institution (with a major that adequately prepares students for success in this field).
2. A minimum of 2.75 overall undergraduate GPA.
3. A letter of application detailing: a) academic background, b) relevant experience, c) career goals and objectives relative to enrollment in this program.
4. A current resume providing details of relevant education and work experience.

Provisional Admission

Students whose GPA is under 2.75 may be granted provisional admission by the graduate faculty committee based on a careful review of additional materials submitted.

Reclassification

A student may be reclassified with regular admission providing that they have completed two program or related courses (6 hours), approved by their advisor, with a grade of no less than B. Additional courses may be required to be completed prior to a student's reclassification that do not contribute to these nine hours (such as taking an undergraduate statistics course to prepare for graduate statistics). No more than nine hours may be earned under the provisional admission classification. After nine hours, the student must either be reclassified as a regular admission student or be removed from the program.

Standards of Progression and Graduation

1. A baccalaureate degree from an appropriately accredited four-year institution (with a major that adequately prepares students for success in this field).
2. A minimum of 2.75 overall undergraduate GPA.
3. A letter of application detailing: a) academic background, b) relevant experience, c) career goals and objectives relative to enrollment in this program.
4. A current resume providing details of relevant education and work experience.

Program of Study

	Credit Hours
Course Requirements	18
Select six CRJU courses labeled as a content area for Cybercrime	
Total Credit Hours	18

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more

information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Psychology

The Department of Psychology offers two graduate programs: the M.S. in Psychology and the Psy.D. in Clinical Psychology.

The Master of Science (M.S.) program in Psychology produces graduates who are knowledgeable in specific content areas of scientific psychology as well as skilled in conducting independent research. Guided by psychological science and a dedication to preparing students for a psychology (or psychology-related) doctoral program, college teaching, or other employment within the social sciences, the department faculty provide graduate students with rigorous coursework and opportunities to engage in one-on-one research collaborations and pedagogical instruction.

The Doctor of Psychology (Psy.D.) program in Clinical Psychology trains doctoral-level professional psychologists to practice psychotherapy and assessment skills in underserved rural areas. This training is accomplished through coursework, as well as practica, capstone activities, and internship experiences. The Psy.D. program is directly involved in providing health care and human services in the region, both by educating practitioners of applied psychology who have voiced a dedication to continuing practice in rural areas and by offering practicum experiences in which students provide clinical service to those in our predominantly-rural region.

The Psy.D. program is accredited by the American Psychological Association (APA).

Programs

Master's

- Psychology M.S. (p. 76)
- Psychology M.S. (Concentration in Behavior Analysis) (p. 77)

Doctoral

- Clinical Psychology Psy.D. (p. 72)

Clinical Psychology Psy.D.

Degree Requirements: 114-124 Credit Hours

114 Credits beyond Bachelor's degree including dissertation; 98 credits of coursework

Program Mission

The Psy.D. program in clinical psychology at Georgia Southern University offers a course of study leading to the Doctor of Psychology degree. The Program's curriculum prepares graduates to practice psychology in rural areas.

Model and Goals

Critical to the program is high quality graduate education and training in clinical psychology with an emphasis on psychotherapy, assessment, and consultation in clinical practice. To this end, the Psy.D. program

has a clear and coherent curriculum. The training for practice is lock-step, sequential, cumulative, and graduated in complexity. The program follows the practitioner-scholar model. In the first year, students take didactic courses concurrently with experiential skill-building courses. The psychological assessment sequence is also offered in the first year. In the second year, students begin the Practicum experience. The third and fourth years include practica focused on rural practice (3rd year) and professional development (4th year). Other clinical courses are interspersed among years one through four.

The program trains students to become generalists who practice psychotherapy, conduct psychological assessment, and provide consultation services. The program has an integrative orientation, emphasizing behavioral, cognitive, existential, family systems, humanistic, and psychodynamic orientations.

The following goals and objectives are consistent with APA standards and have been adapted from the recommendations of the NCSPP model for clinical training:

The following competencies and aims are consistent with APA standards and definitions are taken directly from the Commission on Accreditation, Implementing Regulations, Section C:

Program Competencies, Aims, and Discipline Specific Knowledge

Profession-Wide and Program Competencies and Discipline Specific Knowledge

A. Profession-Wide Competencies

1. *Competency 1: Research:* Students will demonstrate the independent ability to formulate research that is of sufficient quality and rigor needed to contribute to the scientific, psychological, or professional knowledge base.
 - a. 1.1: Students will demonstrate the ability to integrate and critically evaluate published literature.
 - b. 1.2: Students will demonstrate skills in interpreting and applying basic statistical techniques.
 - c. 1.3: Students will demonstrate competence in basic research methodologies.
 - d. 1.4: Students will demonstrate the capacity to develop and complete an empirical study.
 - e. 1.5: Students will publish or present their research at the institutional, regional, or national level.
2. *Competency 2: Ethical and Legal Standards:* Students will be knowledgeable of and act in accordance with professional ethics.
 - a. 2.1: Students will demonstrate a commitment to and working knowledge of the ethical code outlined by the American Psychological Association, relevant federal and state statutes and laws, and relevant professional standards and guidelines to guide practice in all professional activities.
 - b. 2.2: Students will demonstrate the ability to recognize ethical and legal dilemmas as they arise and apply ethical decision-making processes in order to resolve the dilemmas in all professional activities.
 - c. 2.3: Students will conduct themselves in an ethical manner in all professional activities.
3. *Competency 3: Individual and Cultural Diversity:* Students are expected to conduct all professional activities with sensitivity to human diversity, including the ability to deliver high quality services to a diverse population.
 - a. 3.1: Students will demonstrate an understanding of how their own personal/cultural history, attitudes and biases may affect how they understand and interact with people different from themselves.
 - b. 3.2: Students will demonstrate knowledge of the current theoretical and empirical knowledge base as it relates to addressing diversity in all professional activities, including research, training, supervision/consultation, and service.
 - c. 3.3: Students will demonstrate the ability to integrate awareness and knowledge of individual and cultural differences in the conduct of professional roles (e.g., research, services, and other professional activities).
 - d. 3.4: Students will demonstrate the requisite knowledge and ability to articulate an approach to working effectively with diverse individuals and groups, and apply this approach effectively in their professional work.
4. *Competency 4: Professional Values and Attitudes: Students are expected to respond professionally in ways consistent with the profession of psychology.*
 - a. 4.1: Students will behave in ways reflecting the values and attitudes of psychology, including integrity, deportment, professional identity, accountability, lifelong learning, and concern for the welfare of others.
 - b. 4.2: Students will engage in self-reflection regarding their personal and professional functioning and engage in activities to maintain and improve performance, well-being, and professional effectiveness.
 - c. 4.3: Students will actively seek and demonstrate openness and responsiveness to feedback and supervision.
 - d. 4.4: Students will respond professionally in increasingly complex situations with a greater degree of independence as they progress across levels of training.
5. *Competency 5: Communication and Interpersonal Skills:* Students will demonstrate appropriate communication and interpersonal skills and respond professionally in increasingly complex situations.
 - a. 5.1: Students will develop and maintain effective relationships with a wide range of individuals, including colleagues, communities, organizations, supervisors, supervisees, and those receiving professional services.
 - b. 5.2: Students will produce and comprehend oral, nonverbal, and written communications that are informative and well-integrated.
 - c. 5.3: Students will demonstrate a thorough grasp of professional language and concepts.
 - d. 5.4: Students will demonstrate effective interpersonal skills and the ability to manage difficult communication well.
6. *Competency 6: Assessment:* Students will demonstrate competence in conducting evidence-based assessment consistent with the scope of Health Service Psychology.
 - a. 6.1: Students will demonstrate current knowledge of diagnostic classification systems, functional and dysfunctional behaviors, including consideration of client strengths and psychopathology.
 - b. 6.2: Students will demonstrate understanding of human behavior within its context (e.g., family, social, societal, and cultural).
 - c. 6.3: Students will demonstrate the ability to apply the knowledge of functional and dysfunctional behaviors including context to the assessment and/or diagnostic process.
 - d. 6.4: Students will select and apply assessment methods that draw from the best available empirical literature and that reflect the science of measurement and psychometrics; collect relevant data using multiple sources and methods appropriate to the identified goals and questions of the assessment as well as relevant diversity characteristics of the service recipient.
 - e. 6.5: Students will interpret assessment results, following current research and professional standards and guidelines, to inform case conceptualization, classification, and recommendations, while guarding against decision-making biases, distinguishing the aspects of assessment that are subjective from those that are objective.

- f. 6.6: Students will communicate orally and in written documents the findings and implications of the assessment in an accurate and effective manner sensitive to a range of audiences.
7. **Competency 7: Intervention:** Students will demonstrate competence in the delivery of evidence-based interventions consistent with the scope of Health Service Psychology.
- 7.1: Students will establish and maintain effective relationships with the recipients of psychological services.
 - 7.2: Students will develop evidence-based intervention plans specific to the service delivery goals.
 - 7.3: Students will implement interventions informed by the current scientific literature, assessment findings, diversity characteristics, and contextual variables.
 - 7.4: Students will demonstrate the ability to apply the relevant research literature to clinical decision making.
 - 7.5: Students will modify and adapt evidence-based approaches effectively when a clear evidence-base is lacking.
 - 7.6: Students will evaluate intervention effectiveness and adapt intervention goals and methods consistent with ongoing evaluation.
8. **Competency 8: Supervision:** Students will acquire foundational knowledge regarding supervisory aspects of Health Service Psychology.
- 8.1: Students will demonstrate knowledge of supervision models and practices.
9. **Competency 9: Consultation and Interprofessional/Interdisciplinary Skills:** Students will learn and demonstrate intentional collaboration with other individuals or groups to address problems, seek or share knowledge, or promote effectiveness in professional activities.
- 9.1: Students will demonstrate knowledge and respect for the roles and perspectives of other professions.
 - 9.2: Students will demonstrate knowledge of consultation models and practices.

B. Program Competency

1. **Competency 10: Rurality:** Students are expected to develop an appreciation for the dynamics of a rural culture and how these forces influence individual development and community functioning.
- 10.1: Students will demonstrate an appreciation for the unique cultural needs, identities, values, and traditions of rural community members.
 - 10.2: Students will demonstrate the ability to integrate knowledge of rural culture into their conceptualization of well-being.
 - 10.3: Students will demonstrate knowledge associated with the role of advocacy in promoting well-being in rural communities.

C. **Discipline Specific Knowledge:** Students will acquire knowledge in the core areas of the discipline of psychology.

- DSK.1: Students will demonstrate knowledge of the history of psychology, including the origins and development of major ideas in the discipline of psychology.
- DSK.2: Students will demonstrate knowledge in Affective Aspects of Behavior.
- DSK.3: Students will demonstrate knowledge in Biological Aspects of Behavior.
- DSK.4: Students will demonstrate knowledge in Cognitive Aspects of Behavior.
- DSK.5: Students will demonstrate knowledge in Developmental Aspects of Behavior.
- DSK.6: Students will demonstrate knowledge in Social Aspects of Behavior.

- DSK.7: Students will demonstrate advanced integrative knowledge in scientific psychology that entails integration of multiple basic discipline-specific content areas identified in DSK b-f.
- DSK.8: Students will demonstrate knowledge of research methods.
- DSK.9: Students will demonstrate knowledge of statistical analysis.
- DSK.10: Students will demonstrate knowledge of psychometrics.

Accreditation

Georgia Southern University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). The Clinical Psychology Psy.D. is accredited by the American Psychological Association (APA).

Applying to the Psy. D. program

Although academic background, intellectual potential and professional experience and skills will be key selection criteria, we intend to recruit students who are committed to providing service to our region. Therefore, students should carefully consider their interest in rural and under-served populations before applying to the program. Applicants will only be considered for the Psy.D. program (i.e., students will not be admitted for a terminal masters degree in clinical psychology).

Credit hours for previously taken Courses: Students may be able to substitute credit hours received for taking graduate courses at a regionally-accredited institution during the last five years. A maximum of 18 credits of graduate level coursework is allowed. All decisions on substituted courses lie with the clinical training committee, and course equivalencies will be determined on a case-by-case basis and only after a student has been admitted to the program. In all cases, documentation (syllabi, tests, grades) from the previous course will be required and reviewed by the appropriate program faculty who will document action taken. Transfer credit will not be given for any clinical courses (i.e., courses where clinical theory and/or skills are taught), with the exceptions of Assessment I: Psychometric Theory (PSYC 7231) and Assessment II: Intellectual Assessment (PSYC 7234).

Specific admissions procedures are as follows:

- Applications will be evaluated once per year for Fall admissions. The deadline for applications is December 15.
- Applicants will submit an application packet electronically which will consist of all material listed in the Application Checklist. This application can be found at <http://cogs.georgiasouthern.edu/gradadmin/applytogradschool> (<http://cogs.georgiasouthern.edu/gradadmin/applytogradschool/>).
- A successful completion of a bachelor's degree from a regionally accredited institution. Student's academic record will be evaluated based on official transcripts from all previous enrollments in higher education.
 - The minimum GPA required for consideration is 3.3 (out of 4.0).
 - A minimum grade of "B" in the following undergraduate courses: Psychological Statistics, Research Design, Abnormal Psychology.
 - Record of having taken at least two of the following courses: Personality, Social Psychology, Developmental Psychology, Learning and/or Cognition, Health Psychology, Tests and Measurement, Theories of Psychotherapy, Psychology of Substance Abuse.
- Record of taking the General GRE test within the past 5 years. Average GRE scores for previous successful applicants are available at <https://cbss.georgiasouthern.edu/psychology/psyd/>. The GRE Psychology (subject) test is required only for those students who did not earn either a Bachelor's or a Master's degree in psychology.
- Three letters of recommendation from former professors or appropriate employers/advisors.

6. A written statement of professional goals. Please describe why you want to pursue doctoral training in clinical psychology. Also, describe how Georgia Southern University's program is a good fit. Finally, please list three (3) Statesboro campus psychology faculty whose research interests are a match to your own. Of these three, please include at least one clinical faculty member and one faculty member who is not clinical. This statement should be 500 words or less in length.
7. A curriculum vitae.
8. An interview is required.

Part-time Admission and Part-time Status

The Psy.D. program is designed to be a full-time program that can be completed in five years. However, we realize some students may desire to do a portion of the program part-time. To this end, students may be admitted to the program with part-time status. If they wish to do this, the following criteria must be met:

- Students must apply via the same admission procedures as full-time students.
- Students can only begin the program in the Fall semester.
- Students must be admitted with a 18 credits in non-clinical courses (i.e., they must come into the program with the maximum amount of transfer credit).

Once admitted, part-time students must:

- Enroll in a minimum of six (6) credits of coursework each semester.
- Be enrolled in the program every semester, unless a Leave of Absence is granted (see below).
- Enroll in necessary co-requisite courses when they are required.
- Enroll in Foundations of Psychotherapy I (PSYC 7232), Foundations & Skills II (PSYC 7433), and Group & Family Therapy (PSYC 7235) in consecutive semesters.
- Switch to full-time enrollment (minimum nine (9) credits per semester) for at least one full year to meet the residency requirement (see program manual for details).
- Complete the Psy.D. program within the 8-year time limit allowed for all students.

Part-time students may switch to full-time status at any point in their training. If a student desires to return to part-time status after being full-time, they must petition the program director.

Program Requirements

The program is designed to be a five-year, full-time program for those entering with a bachelor's degree. The first four years will include coursework and graded practicum experiences. A minimum of one year (12 continuous months) of full-time coursework must be done in residency at Georgia Southern. The fifth year will consist of a full-time (2000 hour) approved internship.

- **Grades:**
Students are expected to pass all courses with a grade of "A" or "B". Should a student earn less than a B in any course, he or she is immediately put on probation and must retake the course (and earn an "A" or "B") the next time the course is offered. Earning a second grade below "B" will result in dismissal from the program.
- **Annual Evaluations:**
Once a year, students will have an individual meeting with their academic advisor for an evaluation of their progress. The evaluation will assess ongoing development of academic performance and professional skills, ethical judgment and sensitivity, as well as personal attributes or behaviors related to suitability for career in professional psychology. Documented poor performance in any of these areas will

be the basis of efforts by the advisor and program faculty to assist the student in forming and completing a plan for improvement; continued poor performance within specified time frames will be the basis for terminating a student's enrollment in the program.

- **Clinical Qualifying Examination; and Dissertation:**
Students must successfully complete a Clinical Qualifying Examination at the time specified in their Handbook. This examination requires the student to demonstrate satisfactory skills in assessment, diagnosis, case conceptualization, tracking therapeutic progress, and treatment planning. In keeping with the practitioner-scholar model, the program aims to train practitioners who are grounded in the scholarly inquiry of scientific psychology. By the beginning of the fourth year, it is expected that students have drafted a doctoral dissertation proposal. The project should be conducted during the fourth year. At a minimum, the dissertation proposal is to be written, defended, and approved before applying for the pre-doctoral internship. At an aspirational level, it is highly desirable that students will successfully defend the dissertation project before leaving campus for an internship.
- **Practicum:**
An indispensable component of clinical training is to gain experience providing psychotherapy, assessment, and consultation. To this end, students are required to participate in a graduated series of practicum experiences beginning in the second year. All students are expected to conform to the APA Code of Ethics, Georgia state law, and to the rules of the practicum site. In the second year, students will be placed at internal practicum sites where their progress can be closely monitored. Internal practicum sites consist of the Psychology Clinic, Georgia Southern University Counseling and Career Development Center, and the Regents Center for Learning Disorders. In the third year, all students will be engaged in practicum experiences in rural agencies and/or at agencies that serve predominantly rural clientele. The fourth year of practicum can be at any site, but with a focus on professional development and developing knowledge about clinical supervision and consultation services. Failure to complete practicum successfully will result in remediation or dismissal, depending on the circumstances for the failure, as described in the Psy.D. Program Handbook.
- **Personal Therapy Requirement:**
In our clinical training, we emphasize the development of the clinician as a person in parity with the acquisition of clinical skills and theoretical knowledge. To this end, we require all students to complete a minimum of 10 sessions of personal psychotherapy with a licensed therapist during their time in the program.
- **Internship:**
State licensing boards for doctoral level psychologists require candidates for licensure to have completed a one-year, full-time (2,000 hour) pre-doctoral internship. The Georgia Southern University Psy.D. program is designed for the Internship to be completed in the fifth year. Students will follow the application process outlined by the Association of Psychology Postdoctoral and Internship Centers (APPIC; www.appic.org).

Leave of Absence

Leaves of Absence are discouraged. They can lead to scheduling difficulties because of the sequencing of courses and experiences. However, leaves of absences may be granted to students on petition to do so with the DCT and the Dean of the College of Behavioral and Social Sciences or his/her designee. Students who have been granted a leave of absence are responsible for notifying the DCT and the Dean of the College of Behavioral and Social Sciences when ready to resume full-time graduate study. Leaves of absence cannot extend beyond one calendar year. Students who do not return after one year of absence will be dismissed from the program.

Program of Study

Below are the courses required for the Psy.D. program. A curriculum by year can be found by visiting the Psychology Department's website at <http://class.georgiasouthern.edu/psychology/psyd/files> (<http://class.georgiasouthern.edu/psychology/psyd/files/>)

	Credit Hours
Foundational Psychotherapy	12
PSYC 7232 Foundations of Psychotherapy I	
PSYC 7237 Psychotherapy Skills I	
PSYC 7433 Foundations & Skills II	
PSYC 7633 Psychotherapy Skills III: Child and Family Interventions	
Foundational Assessment	9
PSYC 7231 Assessment I: Psychometric Theory	
PSYC 7234 Assessment II: Intellectual Assessment	
PSYC 7335 Assessment III: Personality Assessment	
Biological Bases of Behavior	6
PSYC 7134 Physiological Psychology	
PSYC 9331 Psychopharmacology	
Cognitive and Affective Aspects of Behavior	3
PSYC 7133 Affective and Cognitive Psychology	
History and Systems of Behavior	3
PSYC 9235 History and Systems of Psychology	
Research Methodology and Data Analysis	6
PSYC 7130 Statistics for Psychology	
PSYC 7131 Research Design	
Human Development and Individual Differences	3
PSYC 7331 Advanced Developmental Psychology	
Psychopathology	3
PSYC 7239 Psychopathology	
Professional Standards and Ethics	3
PSYC 7233 Ethics and Professional Issues	
Social Aspects of Behavior	3
PSYC 7332 Advanced Social Psychology	
Cultural and Individual Diversity	6
PSYC 9230 Diversity Issues in Psychology	
PSYC 9330 Rural Mental Health	
Advanced Psychotherapy	6
PSYC 7235 Group & Family Therapy	
PSYC 7238 Child Psychotherapy	
Consultation and Supervision	14-15
PSYC 7111 Supervision (must take a minimum of 8 times (maximum 9 times))	
PSYC 9130 Professional Development	
PSYC 9131 Supervision and Consultation	
Clinical Practica	18-21
PSYC 7730 Practicum I	
PSYC 7731 Practicum II	
PSYC 7733 Combined Practicum Seminar (must take a minimum of 2 times (maximum 3 times))	
PSYC 9731 Rural Practicum (must take a minimum of 2 times)	
Internship	3
PSYC 9711 Pre-Doctoral Internship I	
PSYC 9712 Pre-Doctoral Internship II	
PSYC 9713 Pre-Doctoral Internship III	

Dissertation 16-26

PSYC 9999	Dissertation (Students should take a minimum of 16 hours of dissertation, with a maximum of 26 hours.)	114-124
Total Credit Hours		114-124

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Psychology M.S.

Degree Requirements: 36 Credit Hours

Admission Requirements

New students are admitted to the program in Fall semester only. The program is limited to 12 new students.

Regular Admission

The applicant must have:

1. Completed requirements for the Bachelor's degree in a college accredited by the proper regional accrediting associations.
2. Taken Introduction to Psychology, a statistics course, a research methods course, and at least two additional courses in psychology.
3. A 3.0 (4.0 scale) cumulative grade point average or higher on undergraduate work.
4. Minimum Graduate Record Exam (GRE) scores of 147 on the Verbal section and 146 on the Quantitative section for applicants who took the exam after July 31, 2011.
5. Submitted:
 - a. A personal statement that includes a description of career goals, reasons for applying for graduate study at Georgia Southern University, a list of academic achievements, non-academic achievements, relevant work experience, a self-evaluation of maturity level and character. We strongly encourage students to obtain research experience as an undergraduate.
 - b. Recommendations from three individuals who can speak of the applicant's undergraduate academic performance, potential for graduate study, and maturity level and character. At least one letter must be from a faculty member.

Provisional Admission

For applicants who meet two out of three of the following criteria for regular admission (GRE-V, GRE-Q, GPA), provisional admission may be granted by the departmental graduate faculty based on their consideration of the materials submitted by the applicant.

Program of Study

	Credit Hours
Statistics and Research Design	6
PSYC 7130 Statistics for Psychology	
PSYC 7131 Research Design	
Content courses	15

PSYC 7132	Advanced Learning	
PSYC 7133	Affective and Cognitive Psychology	
PSYC 7134	Physiological Psychology	
PSYC 7331	Advanced Developmental Psychology	
PSYC 7332	Advanced Social Psychology	
Applied research courses and electives		15
PSYC 7390	Development of Original Research	
PSYC 7999	Thesis (must complete minimum of 6 credit hours)	
Elective	(6000-8000 level course)	
Total Credit Hours		36

Other Program Requirements

- All students in the MS program must complete an acceptable thesis, including a successful oral defense.
- The program offers an option Teaching Emphasis, which prepares students to potentially serve as Teaching Assistants at University-level. In choosing this option, students will complete Seminar in Teaching Psychology (PSYC 7631) as well as meet other criteria.

Psychology M.S. (Psy.D. Track)

Degree Requirements: 54 Credit Hours

Admission Requirements

As this is a degree that is part of the Doctor of Psychology (Psy.D.) program, only students enrolled in the Psy.D. program are eligible.

Program Requirements

- All students must have completed the first two years (54 credits) of the Psy.D. program through the Spring semester of the second year and must have successfully completed the Clinical Qualifying Examination.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Psychology M.S. (Concentration in Behavior Analysis)

Degree Requirements: 31 Credit Hours

Admission Requirements

New students are admitted to the program in Fall semester only. The program is limited to 15 new students.

Regular Admission

The applicant must have:

1. Completed requirements for the Bachelor's degree in a college accredited by the proper regional accrediting associations.

2. Taken Introduction to Psychology, Introduction to Special Education, Introduction to Behavior Analysis, or a course in a similar discipline.
3. A 3.0 (4.0 scale) cumulative grade point average or higher on undergraduate work.
4. Minimum Graduate Record Exam (GRE) scores of 147 on the Verbal section and 146 on the Quantitative section for applicants who took the exam after July 31, 2011.
5. Submitted:
 - a. A personal statement that includes a description of career goals, reasons for applying for graduate study at Georgia Southern University, a list of academic achievements, non-academic achievements, relevant work experience, a self-evaluation of maturity level and character. We strongly encourage students to obtain applied clinical or research experience as an undergraduate.
 - b. Recommendations from three individuals who can speak of the applicant's undergraduate academic performance, potential for graduate study, and maturity level and character. At least one letter must be from a faculty member.

Provisional Admission

For applicants who meet two out of three of the following criteria for regular admission (GRE-V, GRE-Q, GPA), provisional admission may be granted by the departmental graduate faculty based on their consideration of the materials submitted by the applicant.

Program of Study

	Credit Hours
Philosophical Underpinnings, Concepts, and Principles of Behavior Analysis	
PSYC 6400	Concepts and Principles of Behavior Analysis
PSYC 6405	Concepts and Principles of Behavior Analysis LAB
PSYC 6480	Behaviorism as a Philosophy of Science
PSYC 6600	Seminar in Behavior Analysis Research
Ethics, Professionalism, and Disciplinary Systems	
PSYC 6450	Ethics for the Behavior Analyst
Assessment and Behavior Change	
PSYC 6430	Assessment and Treatment of Challenging Behavior
PSYC 6440	Establishing and Strengthening Behavior
Research Methods in Behavior Analysis	
PSYC 6410	Measurement in Behavior Analysis
PSYC 6420	Research Methods in Applied Behavior Analysis
Designing and Supervising Behavioral Programming	
PSYC 6460	Instructional Design
PSYC 6490	Designing, Implementing, and Supervising Behavioral Programs
Electives 0-3	
PSYC 6500	Independent Research in Behavior Analysis
PSYC 5700G	Practicum in Behavior Analysis
Total Credit Hours 31	

Other Program Requirements

- Students who are interested in accruing supervised experience hours toward their Board Certified Behavior Analyst (BCBA) credential can

opt to take Practicum in Behavior Analysis (PSYC 5700G) and an elective course. Prior approval by program supervisor required.

- Students interested in pursuing doctoral training can opt to take Independent Research in Behavior Analysis (PSYC 6500) to gain research experience in behavior analysis. Prior approval by program supervisor required as well as a behavior analysis faculty member who will supervise the research.
- The topic area of Seminar in Behavior Analysis Research (PSYC 6600) will rotate on an on-going basis. Students may petition to take the course a second time if the content area is different from the topic offered when they took the course.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Public and Nonprofit Studies

The Department of Public and Nonprofit Studies serves as the focal point for scholarship, teaching, and service in the fields of Public Administration and Public Policy. The department was founded with the mission to advance excellence in public and nonprofit management education.

The Department of Public and Nonprofit Studies offers the NASPAA accredited Master of Public Administration (M.P.A.) degree and an online graduate Certificate in Public and Nonprofit Management. Emphasizing both the theoretical foundations and practical application of the discipline, the Department's academic programs prepare pre-service students for a career in public service, as well as provide advanced training to mid-career practitioners.

Programs

Master's

- Public Administration M.P.A. (p. 78)

Public Administration M.P.A.

Degree Requirements: 39 Credit Hours

Admission Requirements

Regular Admission

A student must have the following items in his or her portfolio:

1. Completed requirements for the Bachelor's degree in a college accredited by proper regional accrediting association.
2. A 2.75 (4.0 scale) cumulative grade point average in undergraduate work.
3. Applicants with an undergraduate GPA of less than 3.0 must submit official scores on the Graduate Record Exam (GRE) or Graduate Management Admission Test (GMAT). Applicants with an

undergraduate GPA of at least 3.0 are not required to submit exam scores.

4. A current resume detailing relevant work experience.
5. Three (3) letters of recommendation from persons familiar with the applicant's academic or employment experience.
6. Statement of career goals and objectives.

Provisional Admission

In the following circumstances, applicants who do not meet the above criteria may be admitted:

- Provisional admission will be considered for applicants who do not meet one or more of the academic requirements listed above if strong evidence of ability to perform well in graduate work is provided through reference to work experience or other means.

Non-Degree Admission

In cases of incomplete admission applications, an applicant must have an undergraduate GPA of 2.75 and will be restricted to a maximum of three courses without gaining provisional or regular admission status.

Program of Study

The graduate student and the MPA Program Director shall jointly develop a Program of Study that includes 24 credits of core courses, twelve (12) credits of emphasis courses, three (3) credits of internship (depending on whether student is pre-service or in-service), and a comprehensive examination.

	Credit Hours
Core Requirements	24
PBAD 7130 Ethics for Public Service Organizations	
PBAD 7134 Advanced Management	
PBAD 7230 Budgeting in Public Service Organizations	
PBAD 7430 Public Human Resource Management	
PBAD 7530 Research Methods For Public Service Organizations	
PBAD 7531 Public Program Evaluation	
PBAD 7532 Public Policy	
PBAD 7631 Foundations of Public Administration	
Emphases Requirements	12
Students complete 12-credit hours in one of the following emphases:	
Public Management	
Nonprofit Management	
Internship	3
PBAD 7730 Internship in Public Administration	
Total Credit Hours	39

Students who are not professionally employed in the public or nonprofit sector while a student in the MPA program will be required to complete an internship in a public agency or nonprofit organization before completing the program. Students must have completed at least nine credits and have a GPA in the MPA program of at least 3.0 before enrolling for credit in the internship.

Students must pass a written comprehensive examination. Students may sit for the comprehensive examination after completing a minimum of 27 credit hours in the MPA program with a cumulative GPA of at least 3.0 and by permission of the MPA Program Director.

Accelerated Bachelors to Masters (MPA-ABM) with Recreation B.S.

Degree Requirements: 39 Credit Hours

The MPA-ABM with Recreation B.S. is designed to allow students to enter the Master of Public Administration (MPA) degree program after completing 90 credit hours. Students admitted into the MPA-ABM program may take up to 12 graduate credit hours within the undergraduate Recreation degree program that will count toward the MPA. There must be a minimum of 150 unique credit hours between the two programs.

Admission Requirements

Regular Admission

Students may be accepted into the MPA-ABM program if all of the criteria are met:

1. Student must have earned a minimum of 90 credit hours and have completed an application for admission to the MPA-ABM program.
2. Student must be a declared major in the Recreation B.S. degree program, with an emphasis in Outdoor Recreation or Tourism and Community Leisure Services.
3. Student must have a minimum GPA of 3.25.
4. Student must meet all of the other criteria for Regular Admission into the MPA program. Provisional Admission will not be allowed.

Program of Study

Students in the MPA-ABM should take the following courses as "Guided Major Electives," preferably during their senior year:

		Credit Hours
PBAD 7130	Ethics for Public Service Organizations	3
PBAD 7230	Budgeting in Public Service Organizations	3
PBAD 7530	Research Methods For Public Service Organizations	3
PBAD 7631	Foundations of Public Administration	3
Total Credit Hours		12

Students may declare a Minor in Public Administration and fulfill the minor requirements by completing an additional PBAD/NMLI course in the minor program. The MPA-ABM courses substitute for courses in the minor program as follows: Ethics for Public Service Organizations (PBAD 7130) for Public Service Values and Ethics (PBAD 4232), Budgeting in Public Service Organizations (PBAD 7230) for Public Budgeting (PBAD 3431), Research Methods For Public Service Organizations (PBAD 7530) for Research Methods and Evaluation (PBAD 4235), and Foundations of Public Administration (PBAD 7631) for Introduction to Public Administration (PBAD 2231).

Accelerated Bachelors to Masters (MPA-ABM) with Child and Family Development B.S. - Family Services Concentration

Degree Requirements: 39 Credit Hours

The MPA-ABM with Child and Family Development B.S. - Family Services Concentration is designed to allow students to enter the Master of Public Administration (MPA) degree program after completing 75 credit hours. Students admitted into the MPA-ABM program may take up to 12 graduate credit hours within the undergraduate Child and Family Development degree program that will count toward the MPA. There must be a minimum of 150 unique credit hours between the two programs.

Admission Requirements

Regular Admission

Students may be accepted into the MPA-ABM program if all of the criteria are met:

1. Student must have earned a minimum of 75 credit hours and have completed an application for admission to the MPA-ABM program.
2. Student must be a declared major in the Child and Family Development B.S., with an emphasis in Family Services.
3. Student must have a minimum GPA of 3.25.
4. Student must meet all of the other criteria for Regular Admission into the MPA program. Provisional Admission will not be allowed.

Program of Study

Students in the MPA-ABM should take the following courses, preferably beginning with six credit hours during the spring semester of their junior year. A total of nine credit hours will fall within the "Guided Major Electives" block of the Child and Family Development degree program. Additionally, students will utilize either a free elective slot or elect to complete a nine (instead of 12) credit hour internship to account for the remaining three graduate credit hours. Students should work with their academic advisor to determine the most appropriate pathway.

		Credit Hours
PBAD 7130	Ethics for Public Service Organizations	3
PBAD 7230	Budgeting in Public Service Organizations	3
PBAD 7530	Research Methods For Public Service Organizations	3
PBAD 7631	Foundations of Public Administration	3
Total Credit Hours		12

Students may declare a Minor in Public Administration and fulfill the minor requirements by completing an additional PBAD/NMLI course in the minor program. The MPA-ABM courses substitute for courses in the minor program as follows: Ethics for Public Service Organizations (PBAD 7130) for Public Service Values and Ethics (PBAD 4232), Budgeting in Public Service Organizations (PBAD 7230) for Public Budgeting (PBAD 3431), Research Methods For Public Service Organizations (PBAD 7530) for Research Methods and Evaluation (PBAD 4235), and Foundations of Public Administration (PBAD 7631) for Introduction to Public Administration (PBAD 2231).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Department of Sociology and Anthropology

The Master of Arts with a major in Social Science offers students a multidisciplinary curriculum for understanding and investigating the social aspects of human behavior, social structure and culture in a global context. The program emphasizes the wide range of skills and perspectives that students need in order to analyze the historical, cultural,

individual, and institutional conditions that shape our lives. We are committed to helping students become informed, responsible, active citizens and ethical workers in diverse communities. Consistent with the University's mission, the program inculcates a culture of engagement that bridges theory with practice, extends the learning environment beyond the classroom, and promotes student growth.

Students in the M.A. Social Science program develop a program of study in conjunction with their advisor. A student will select an area of concentration within one of three areas - Anthropology, Political Science, or Sociology.

Programs

Master's

- Social Science M.A. (p. 80)
- Social Science M.A. (Non-Thesis) (p. 80)

Social Science M.A.

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular Admission

1. An undergraduate degree from an accredited, four-year institution (or a course of study that is the equivalent of such a degree).
2. A statement of purpose expressing student's aspirations.
3. A favorable review by the Social Science Graduate Admissions Committee.

Provisional Admission

Non-traditional students and applicants not meeting the above requirements may be considered for Provisional (Probationary) admission as determined on a case-by-case basis.

Program of Study

	Credit Hours
Required Core Courses	12
SOCI 6638 Proseminar in Social Science or ANTH 6638 Proseminar in Social Science or POLS 6638 Proseminar in Social Science	
Theory (Can be any ANTH, POLS, or SOCI theory course)	
Methods and/or Analysis (Can be any ANTH, POLS, or SOCI methods and/or analysis courses)	
Elective Courses	18
A student will develop a program of study in conjunction with their advisor and approved by the graduate Director. A student will select an area of concentration within one of the three areas: Anthropology, Political Science, or Sociology. An area of concentration requires a minimum of 15 credit hours of coursework from within anthropology, political science, or sociology. With the exception of SOCI/ANTH/POLS 6638, core courses can be used to fulfill the area of concentration requirements.	
Terminal Project:	6
Select one of the following Tracks	
Applied/Public Service Track	

The applied/public service track is for students who plan to enter applied or public service venues. Students may choose among three terminal projects. (Option 1) Students complete six credit hours of course work that has an applied emphasis (e.g. additional classes in methods, statistics, grant writing, program evaluation, public policy, or field research). Specific courses must be approved by the advisor and graduate director. (Option 2) Students complete an internship approved by the advisor and director. Or (Option 3) students take courses to prepare them for a career in teaching at the community college level.

Thesis Track

The research thesis track is strongly recommended for students who plan to continue in graduate or professional education. The thesis may be theoretical or empirical and should represent the student's knowledge of social science theory, methodology and a substantive area as well as the ability to conduct research. Data for empirical research projects may be qualitative and/or quantitative and primary and/or secondary in nature.

Total Credit Hours

36

General Program Requirements

Students can earn six (6) credits from courses at the 5000G level. Students will craft a program of study which draws from at least two of the three fields of study within the Social Sciences program. Enrollment in courses outside anthropology, political science, and sociology is limited to a maximum of twelve (12) credits. Courses that are taken to fulfill a prerequisite for admission may not be used to satisfy course credit hour requirements. All students must complete a portfolio to demonstrate the completion of program objectives.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Social Science M.A. (Non-Thesis)

The Master of Arts in Social Science program offers students a multidisciplinary curriculum for understanding and investigating the social aspects of human behavior, social structure and culture in a global context. The program emphasizes the wide range of skills and perspectives that students need in order to analyze the historical, cultural, individual, and institutional conditions that shape our lives. We are committed to helping students become informed, responsible, active citizens and ethical workers in diverse communities. Consistent with the University's mission, the program inculcates a culture of engagement that bridges theory with practice, extends the learning environment beyond the classroom, and promotes student growth.

Students in the M.A. Social Science program develop a program of study in conjunction with their advisor. A student will select an area of concentration within one of four three areas: Anthropology, Political Science, or Sociology.

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular

1. An undergraduate degree from an accredited, four-year institution (or a course of study that is the equivalent of such a degree).
2. A statement of purpose expressing student's aspirations.
3. A favorable review by the Social Science Graduate Admissions Committee.

Consideration is also given to the student's statement of purpose and potential for succeeding in the program.

Provisional

Non-traditional students and applicants not meeting the above requirements may be considered for Provisional (Probationary) admission as determined on a case-by-case basis.

Plan of Study

	Credit Hours
Required Core Courses	
SOCI 6638 Proseminar in Social Science	3
or ANTH 6638 or POLS 6638	
Theory (Can be any ANTH, POLS, or SOCI course)	3
Methods and /or Analysis (Can be any ANTH, POLS, or SOCI methods and/or analysis courses)	6
Elective Courses	18
A student will develop a program of study in conjunction with their advisor and approved by the graduate Director. A student will select an area of concentration within one of the three areas: Anthropology, Political Science, or Sociology. An area of concentration requires a minimum of 15 credit hours of coursework from within anthropology, political science, or sociology. With the exception of SOCI 6638, core courses can be used to fulfill the area of concentration requirements.	
Terminal Project:	
Applied /Public Service Track	6
The applied/public service track is for students who plan to enter applied or public service venues. Students may choose among three terminal projects. (Option 1) Students complete six credit hours of course work that has an applied emphasis (e.g. additional classes in methods, statistics, grant writing, program evaluation, public policy, or field research). Specific courses must be approved by the advisor and graduate director. (Option 2) Students complete an internship approved by the advisor and director. Or (Option 3) students take courses to prepare them for a career in teaching at the community college level.	
Total Credit Hours	36

General Program Requirements

Students can earn six (6) credits from courses at the 5000G level. Students will craft a program of study which draws from at least two of the six three fields of study within the Social Sciences program. Enrollment in courses outside anthropology, political science, and sociology is limited to a maximum of twelve (12) credits. Courses that are taken to fulfill a prerequisite for admission may not be used to satisfy course credit hour requirements. All students must complete a portfolio to demonstrate the completion of program objectives.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Parker College of Business

The Parker College of Business at Georgia Southern University is part of a comprehensive, regional university. At the undergraduate level, we provide the Bachelor of Business Administration degree with majors in accounting, economics, finance, information systems, supply chain management, management, and marketing. At the graduate level, we provide the Master of Business Administration, online MBA, Master of Accounting, WebMACC, and online Master of Science in Applied Economics degrees, as well as a Graduate Certificate Applied Economics, a Graduate Certificate in Fraud Examination, a Graduate Certificate in Forensic Accounting, a Graduate Certificate in Taxation, and a Graduate Certificate in Enterprise Resources Planning (ERP), to prepare students for accounting and management positions of significant responsibility. Our degree programs are accredited by the AACSB, an affiliation that underscores the College's dedication to continuous improvement and commitment to excellence. Our accounting programs hold separate AACSB accreditation.

Mission

The Parker College of Business seeks to produce career-ready professionals by offering a broad array of high-quality undergraduate and select graduate programs within a learning environment characterized by inspired teaching, relevant research, and meaningful service. We search for new knowledge, both theoretical and practical, and insightful learning opportunities for our students, guided by common values of continuous improvement, excellence, integrity, accountability, respect, and sustainability.

Teaching in the Parker College:

We endeavor to prepare career-ready professionals. This motivates our teaching. We equip students with the knowledge, critical thinking skills, and relevant tools for professional success. Our curriculum is driven by and evolves with informed theory and best practices. The learning environment we create within the classroom and beyond attracts students to the Parker College and inspires them to learn. This rich learning environment creates demand for our graduates.

Research in the Parker College:

Our desire to produce career-ready professionals motivates the growth of our intellectual capital through rigorous and meaningful inquiry. Our scholarship supports our distinctiveness and represents the source of our expertise in the classroom and in the academic and business communities. We value scholarship that informs theory, practice, and teaching. Our inquiry is validated through a diverse portfolio of scholarly and professional activities.

Service in the Parker College:

Service is a professional activity and is an important way by which we renew ourselves. We value service activities that leverage our position and expertise as teacher-scholars and researchers. Service provides benefits for our students, the professions they will enter, and the brand, the Parker

College or University. Because not all service activities are equal, we assess and recognize our service in terms of its overall impact.

College Structure

- Office of Graduate Programs (p. 82)

Internships

Internship opportunities are available through the Office of Experiential Learning and Student Engagement in the College of Business Building, room 3300B. Internships are supervised work-study programs, designed to allow students an opportunity to receive practical experience in their chosen field of study. Prerequisites include a review of academic qualifications and approval of the Director. Students should contact Danielle Smith, Director of Experiential Learning & Student Engagement, for further information.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Programs

Master's

- Accounting M.Acc. (p. 83)
- Accounting WebM.Acc. (The Web-Based Master of Accounting) (p. 85)
- Applied Economics M.S. (p. 88)
- Business Administration M.B.A. (p. 89)
- Business Administration M.B.A. (The Georgia WebMBA) (p. 90)

Doctoral

- Business Administration Ph.D (Logistics and Supply Chain Management) (p. 91)

Certificates

- Applied Economics Certificate (Online) (p. 87)
- Enterprise Resources Planning (ERP) Certificate Program (Online) (p. 94)
- Forensic Accounting Certificate (p. 95)
- Graduate Certificate in Taxation (p. 96)

Dean: Allen C. Amason
Business Room 2254
P.O. Box 8002
(912) 478-2622
E-mail address: aamason@georgiasouthern.edu

Associate Dean of Academic & Faculty Affairs: Rand W. Ressler
Business Room 2253C
P.O. Box 8002
(912) 478-5107
E-mail address: rressler@georgiasouthern.edu

Associate Dean of Student and External Relations: Britton McKay
College of Business Room 2253D
P.O. Box 8002
(912) 478-5107
E-mail address: bmckay@georgiasouthern.edu

Office of Graduate Programs

Structure

Doctoral Program	Dr. Alan Mackelprang, Director
Graduate Studies	Dr. Lowell Mooney, Director
Program Advisors:	
Accounting	Dr. Stephanie Hairston
Business Administration	Dr. Lowell Mooney
Economics	Dr. Amanda King
Enterprise Resources Planning	Dr. Camille Rogers

Programs and Certificates

Ph.D. in Logistics and Supply Chain Management

The Ph.D. Program in Logistics and SCM trains students for academic positions in logistics and supply chain management. The program builds on the College of Business's nationally ranked undergraduate degree program in Logistics and Intermodal Transportation. Graduates will be prepared to generate new knowledge, as well as to communicate a deep understanding of logistics and supply chain management to wide ranging audiences. The program requires 60 credit hours of coursework, provided the student has an appropriate master's degree. Course work in the degree is expected to be completed within two years. After successful completion of a Comprehensive Exam, students will then transition to completing their dissertation. Core classes focus on advanced courses in logistics, sourcing, operations management, and supply chain management providing a broad-based and integrative foundation to the discipline.

Master of Business Administration

The purpose of the MBA program at Georgia Southern University is to prepare men and women for careers in business and non-profit organizations in an increasingly complex and changing world. It emphasizes the fundamental knowledge and skills underlying modern administration and management and applies these with emphasis upon the area of managerial and executive decision-making.

Georgia Southern University has offered the Master of Business Administration degree since 1969 with graduates going on to pursue successful careers in banking and finance, marketing, manufacturing, and international organizations. The MBA program is designed to accommodate part-time students. Classes are moderate in size to create an optimal environment for effective learning and thought-provoking discussions.

Master of Accounting

The Master of Accounting (MAcc) program focuses on the knowledge and skills students need for careers in public accounting and consulting. The curriculum includes 18 credit hours of accounting and law and 12 credit hours of electives designed to allow students to customize their program of study to fit their personal career objectives. The WebMAcc is an online 30-credit-hour program designed for working professionals and the diploma WebMAcc students earn is identical to that of on-campus students. Combined with the BBA Accounting degree, both the MAcc and WebMAcc programs meet Georgia's 150-hour requirement for certification

as a CPA. Graduate Certificate options in Tax and Forensic Accounting allow students to set themselves apart from other graduates and increase their versatility in the workforce.

Master of Science in Applied Economics

The Master of Science in Applied Economics (MSAE) is offered exclusively online. The MSAE consists of 30 credit hours and features a rigorous core curriculum consisting of Micro-economic Theory, Macroeconomic Theory, International Economics and Applied Econometrics. The program's graduates are expected to be competitive for employment in private enterprise, including financial institutions, industry, utility companies and governmental organizations engaged in regulation and economic development.

Graduate Certificate in Enterprise Resources Planning (ERP)

The Enterprise Resources Planning (ERP) Certificate is an online program for working professionals and recent graduates who want to deepen their understanding of ERP systems and integrated business processes within organizations. This 15-credit hour lockstep program offers students the opportunity to gain hands on experience with SAP® ERP and to earn an Associate Level SAP® Certification (SAP Certified Application Associate - Business Process Integration with SAP). This certification is recognized globally and validates broad understanding of integrated business processes within the world's most widely used ERP software. Admission to the program is competitive and the size of each cohort is limited.

Graduate Certificate in Forensic Accounting

The Graduate Certificate in Forensic Accounting program is designed to provide the advanced knowledge and skills graduates need to investigate asset theft and financial statement fraud, to design internal control systems that detect and/or prevent fraud, and to serve effectively as expert witnesses in a court of law.

Graduate Certificate in Taxation

The Graduate Certificate in Taxation imparts a basic knowledge of the major technical, conceptual, and research issues in the area of tax and taxation, and provides training in the practical and procedural aspects of taxation. Students explore the ethical and legal obligations of practicing in the area of taxation. The Certificate program prepares students to be professional tax advisers and consultants, tax executives in private and public enterprises and leaders in the field.

Programs

Master's

- Accounting M.Acc. (p. 83)
- Accounting WebM.Acc. (The Web-Based Master of Accounting) (p. 85)
- Applied Economics M.S. (p. 88)
- Business Administration M.B.A. (p. 89)
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Doctoral

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- Applied Economics Certificate (Online) (p. 87)
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- Forensic Accounting Certificate (p. 95)
- Graduate Certificate in Taxation (p. 96)

Accounting M.Acc.

Degree Requirements: 30 Credit Hours

Admission Requirements

The Master of Accounting (MAcc) program focuses on the knowledge and skills students need for careers in public accounting. The curriculum includes 18 credit hours of accounting and 12 credit hours of electives designed to allow students to personalize their program of study to fit their career objectives. Combined, the Georgia Southern University BBA in Accounting and Master of Accounting programs meet Georgia's 150-hour requirement for certification as a Certified Public Accountant (CPA) and can be completed in five years. A prospective student who has earned a baccalaureate degree and plans to take courses in the program must be admitted under one of the following classifications: Degree Student Regular Admission, Degree Student Provisional Admission, Non-Degree Enrichment Student, or Non-Degree Limited Student.

Degree Student

Applicants who are admitted to the College of Graduate Studies with the expressed intent of following a program leading to a graduate degree are classified as degree students. When admitted as a degree student, the applicant will be placed in one of the following categories: Regular Admission or Provisional Admission.

Regular Admission

A prospective candidate for the MAcc degree who meets all requirements for unqualified admission and has been recommended by the MAcc Program Advisor and approved by the College of Graduate Studies is classified as a regular degree student. Student transcripts are evaluated for prerequisite requirements during the review of the admission packet. The requirement to make up deficiencies in prerequisite courses is listed on the notification of acceptance as a condition of acceptance.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of coursework after admission and meet other stipulations outlined by the School of Accountancy to be converted to regular status. The requirement to make up deficiencies in the prerequisite courses is listed on the notification of acceptance as a condition of acceptance.

Non-Degree Student

An applicant may be admitted to the College of Graduate Studies as a non-degree student to earn credit in graduate courses without working toward a degree. Admission as a non-degree student does not guarantee subsequent admission to a graduate degree program; that is a separate process and different criteria must be met. Applicants who are admitted as a non-degree student may apply to a degree program at any time. Upon the MAcc Program Advisor's recommendation, non-degree courses may be included in the graduate degree program of study should the student gain reclassification as a degree student. An applicant may be admitted as a Non-Degree Enrichment Student or Non-Degree Limited Student.

Enrichment

Applicants admitted in this category may take up to eighteen (18) graduate accounting credit hours for enrichment with the approval of the MAcc Program Advisor on a space available basis. An enrichment student may apply for admission as a Degree Student and may count a maximum of nine (9) credit hours toward graduate degree program requirements if recommended by the MAcc Program Advisor and approved by the College of Graduate Studies. The requirement to make up deficiencies in the prerequisite courses is listed on the notification of acceptance as a condition of acceptance.

Limited

Applicants admitted in this category may take up to nine (9) credit hours of graduate courses in any seven contiguous years. A non-degree limited student may count a maximum of nine (9) credit hours toward graduate degree program requirements if recommended by the MAcc Program Advisor and approved by the College of Graduate Studies. The requirement to make up deficiencies in the prerequisite courses is listed on the notification of acceptance as a condition of acceptance.

Application Deadlines

The deadlines for completed applications are as follows:

	Fall	Spring	Summer
Priority	March 15	October 15	March 15
Final	July 15	November 15	April 15

Admission to the program is competitive and decisions are made shortly after a complete application has been received. Since seats are filled as decisions are made, applicants are encouraged to complete their application as soon as possible so that there is enough time to address any application deficiencies well ahead of the final deadline. In addition, those who apply by the Priority Deadline are given priority for graduate assistantships.

Graduate Transfer or Transient Credit

The Parker College of Business accepts graduate transfer or transient credit hours only from AACSB accredited programs not to exceed six (6) credits subject to review and approval by the MAcc Program Advisor.

A student currently enrolled in the MAcc or WebMAcc program can, under special circumstances, apply for admission to the other program and request that credit hours be transferred. The request to transfer courses must be approved by the MAcc Program Advisor or the Graduate Curriculum and Programs Committee.

Admission Factors

Admission to the MAcc program is competitive. The MAcc Program Advisor reviews applications on an individual basis looking at both the quantitative and qualitative aspects of the applicant's academic background and professional experience (if applicable). The Advisor seeks to assess each applicant's potential for academic success in a graduate program based on the following:

- **Statement of Purpose Essay:** Because the admissions process may not allow for personal interviews, this essay is a crucial reflection of the applicant's written communication skills.
- **Past Academic Performance:** Current competitive GPA: While there is no minimum undergraduate grade point average (GPA) requirement, the MAcc Program Advisor views past grades as an important indicator of the applicant's future academic performance. The Advisor may also consider the ranking and reputation of the applicant's undergraduate institution.

- **Professional Experience:** There is no work experience requirement although work experience will be viewed positively by the MAcc Program Advisor.
- **Letters of Recommendation:** Letters are optional but may boost an applicant's chances for admission. References should speak to the applicant's personal qualities, career potential, and potential to succeed in the classroom.

In addition to the applicant's potential of success, space availability in the program may also impact admissions decisions. Decisions are made in as timely a manner as possible.

Admission Appeals

Applicants who are denied admission may appeal to the Parker College of Business Graduate Curriculum and Programs Committee (GCPC). Factors that the GCPC may consider for admission will include (but are not limited to) the following:

1. Probability of success in the program.
2. The diversity the applicant brings to the degree program.
3. Space availability in the program.

The GCPC will make its decision based on the best interests of the program. Its options include, but are not limited to, the following: admit with no restrictions, admit with restrictions, or deny.

Program of Study

Prerequisites

A student admitted to the College of Graduate Studies as a prospective candidate for the Master of Accounting degree must present evidence of satisfactory completion (a minimum grade of "C") of the following course content:

Accounting:

- Intermediate Accounting
- Managerial Accounting
- Income Tax
- Accounting Information Systems
- Auditing

General Business:

- Financial Accounting Principles
- Managerial Accounting Principles
- Macroeconomics
- Microeconomics
- Corporate Finance
- Legal and Ethical Issues in Business
- Management Principles
- Marketing Principles
- Business Statistics

Accelerated Bachelors to Masters Program (ABM)

Degree Requirements: 30 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The MAcc-ABM program combines 124 hours from the BBA Accounting program and 30 hours from the MAcc program, exceeding the required 150 unique hours between undergraduate and graduate degree programs by 4 hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, MAcc-ABM students may share a maximum of 4 credit hours

of graduate level courses in satisfying the requirements of both degree programs.

Admission Requirements

Provisional Admission

The MACC-ABM program is designed for students who have achieved a high level of undergraduate performance in business and accounting coursework which validates their ability to be successful graduate students. Provisional Admission will not be allowed.

Regular Admission

For regular admission into the Accelerated Bachelors in Accounting to Masters of Accountancy degree program the applicant must:

1. Be enrolled as a current Georgia Southern undergraduate student majoring in Accounting.
2. Have earned at least 75 credit hours, including ACCT 3131.
3. Have an earned GPA of 3.0/4.0 or better in all undergraduate coursework.
4. Have an earned GPA of 3.0/4.0 or better in accounting undergraduate coursework.

Program of Study

Students admitted into the ABM program will register for Taxation of Corporations and Partnerships (ACCT 7330) instead of an undergraduate elective, thus reducing the number of graduate hours needed for graduation from 30 to 27.

Program Requirements

Required Courses	Credit Hours
ACCT 7130 Seminar in Financial Accounting	18
ACCT 7330 Taxation of Corporations and Partnerships	
ACCT 7430 Seminar in Auditing	
ACCT 7530 Seminar in Accounting Information Systems	
ACCT 7634 Fraudulent Financial Reporting	
LSTD 7230 Law and Ethics for Accountants	
Electives	
Any graduate level course offered in the University that is approved by the Program Advisor.	12
Total Credit Hours	30

Progression Requirements

1. Students must have a GPA of 3.0 in all required accounting and legal studies (LSTD) courses in order to graduate (in addition to the 3.0 overall GPA required by the university).
2. Students cannot retake a required course in the MAcc program more than once.

As stated in the University's Mission and Values Statements, "Georgia Southern University creates a caring, respectful environment that is deeply committed to ethical decision-making in the spirit of collegiality." In addition, students are expected to adhere to the University Honor Code. Failing to uphold the University's values or violating the Honor Code may result in a student's dismissal from the program

Parker Graduate Academic Intervention Policy

Graduate business students who are placed on academic probation by the university will be placed on **Academic Intervention** by the Parker College of Business until they are no longer on probation. Within 30 days of being notified by the Registrar's office or Graduate School, the student must complete and submit the Parker Graduate Academic Improvement Plan (PGAIP) form to his/her program advisor. The form requires students to identify the top two factors contributing to their academic difficulty and then requires them to list two specific actions that they will take during the next semester to address those factors. Next, the form requires students to determine the actions that are required to return to good academic standing. The form is reviewed by the program advisor who will meet with the student if necessary. The student's progress on the PGAIP will guide the program when making decisions on academic exclusion or appeal for reinstatement. Failure to complete the PGAIP form will weigh negatively toward the program's decision to support a reinstatement appeal.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Accounting WebM.Acc. (The Web-Based Master of Accounting)

Degree Requirements: 30 Credit Hours

Admission Requirements

The Web-Based Master of Accounting (WebMAcc.) program consists of ten 3-credit hour courses. The courses are offered to support the following progression: two courses each fall and spring term and one course each summer for two consecutive years. Georgia Southern University considers the WebMAcc to be a full-time program.

The WebMAcc program focuses on the knowledge and skills students need for careers in public accounting. The curriculum includes 30 credit hours of coursework. The 30 credit hours include 18 credit hours of required courses; the remaining 12 credit hours of electives must be approved by the MAcc Program Advisor. The Georgia Southern University WebMAcc program is designed to assist students in meeting Georgia's 150-hour requirement to obtain a CPA License. A prospective student who has earned a baccalaureate degree and plans to take courses in the program must be admitted to the College of Graduate Studies as one of the following types: Degree Student Regular Admission, Degree Student Provisional Admission, Non-Degree Enrichment Student, or Non-Degree Limited Student.

Degree Student

Applicants who are admitted to the College of Graduate Studies with the expressed intent of following a program leading to a graduate degree are classified as degree students. When admitted as a degree student, the applicant will be placed in one of the following categories: Regular Admission or Provisional Admission.

Regular Admission

An applicant who meets all requirements for unqualified admission and has been recommended by the MAcc Program Advisor and approved by the College of Graduate Studies is classified as a regular degree student. The requirement to make up deficiencies in prerequisite courses is listed on the notification of acceptance as a condition of acceptance.

Provisional

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of coursework after admission and meet other stipulations outlined by the School of Accountancy to be converted to regular status. The requirement to make up deficiencies in the prerequisite courses is listed on the notification of acceptance as a condition of acceptance.

Non-Degree Student

An applicant may be admitted to the College of Graduate Studies as a non-degree student to earn credit in graduate courses without working toward a degree. Admission as a non-degree student does not guarantee subsequent admission to a graduate degree program; that is a separate process and different criteria must be met. Applicants who are admitted in a non-degree category may apply to a degree program at any time. Upon the MAcc Program Advisor's recommendation, non-degree courses may be included in the graduate degree program of study should the student gain reclassification as a degree student. An applicant may be admitted as a non-degree enrichment student or non-degree limited student.

Enrichment

Non-degree enrichment students may complete up to eighteen (18) graduate accounting credit hours with the approval of the MAcc Program Advisor on a space available basis. A student may count a maximum of nine (9) credit hours toward graduate degree program requirements if recommended by the Advisor and approved by the College of Graduate Studies.

Limited

Non-degree limited students may complete up to a maximum of nine (9) credit hours in graduate courses in any seven contiguous years. A student may count a maximum of nine (9) credit hours toward graduate degree program requirements if recommended by the MAcc Program Advisor and approved by the College of Graduate Studies.

Application Deadlines

The deadlines for completed applications are as follows:

	<u>Fall</u>	<u>Spring</u>	<u>Summer</u>
Priority	March 15	October 15	March 15
Final	July 15	November 15	April 15

Admission to the program is competitive and decisions are made shortly after a complete application has been received. Since seats are filled as decisions are made, applicants are encouraged to complete their application as soon as possible so that there is enough time to address any application deficiencies well ahead of the final deadline.

Graduate Transfer or Transient Credit

The Parker College of Business only accepts graduate transfer or transient credit hours from AACSB accredited programs not to exceed six (6) credit hours subject to review and approval by the MAcc Program Advisor. A student currently enrolled in the MAcc or WebMAcc program can, under special circumstances, apply for admission to the other program and request that credit hours be transferred. The request to transfer

courses must be approved by the MAcc Program Advisor or the Graduate Curriculum and Programs Committee.

Admission Factors

Admission to the WebMAcc program is competitive. The MAcc Program Advisor reviews applications on an individual basis looking at both the quantitative and qualitative aspects of the applicant's academic background and professional experience (if applicable). The Advisor seeks to assess each applicant's potential for academic success in a graduate program based on the following:

- **Statement of Purpose Essay:** Because the admissions process may not allow for personal interviews, this essay is a crucial reflection of the applicant's written communication skills.
- **Past Academic Performance:** Current competitive GPA: While there is no minimum undergraduate grade point average (GPA) requirement, the MAcc Program Advisor views past grades as an important indicator of the applicant's future academic performance. The Advisor may also consider the ranking and reputation of the applicant's undergraduate institution.
- **Professional Experience:** There is no work experience requirement although work experience will be viewed positively by the MAcc Program Advisor.
- **Letters of Recommendation:** Letters are optional but may boost a candidate's chances for admission. References should speak to the applicant's personal qualities, career potential, and potential to succeed in the classroom.

In addition to the applicant's potential for success, space availability in the program may also impact admissions decisions. Decisions are made in as timely a manner as possible. .

Admission Appeals

Applicants who are denied admission may appeal to the Parker College of Business Graduate Curriculum and Programs Committee (GCPC). Factors that the GCPC may consider for admission will include (but are not limited to) the following:

1. Probability of success in the program.
2. The diversity the applicant brings to the degree program.
3. Space availability in the program.

The GCPC will make its decision based on the best interests of the program. Its options include, but are not limited to, the following: admit with no restrictions, admit with restrictions, or deny.

Program of Study

Prerequisites

A student admitted to the College of Graduate Studies as a prospective candidate for the WEBMAcc. degree must present evidence of satisfactory completion (a minimum grade of "C") of the following course content:

Accounting:

Intermediate Accounting
 Managerial Accounting
 Income Tax
 Accounting Information Systems
 Auditing

General Business:

No general business courses are required for the WebMAcc. program, but individual elective courses may require prerequisite courses. Students are responsible for meeting course prerequisites prior to admission to

the program. In addition, for candidates who plan to take the Uniform CPA Examination, most jurisdictions have general business course requirements as part of the education requirement to take this exam. Applicants should check with their respective jurisdiction (state boards, etc.) for particular requirements.

Requirements

	Credit Hours
Core Courses	18
WLST 7230 Current Legal Issues	
WMAC 7130 Seminar in Financial Accounting	
WMAC 7334 Tax Research	
WMAC 7430 Seminar in Auditing	
WMAC 7530 Seminar in Accounting Information Systems	
WMAC 7634 Fraudulent Financial Reporting	
Elective Courses	12
Any graduate level course offered by the university that is approved by the Program Advisor.	
Total Credit Hours	30

Residency and Testing Requirements

Additional test security measures as deemed necessary by the faculty will be required and students will be given appropriate notice of those additional security measures. Online tools for proctored testing may include ProctorU, Respondus Lockdown Browser, Respondus Monitor, or other tools the university makes available or the instructor requires. Note that these services typically charge a small cost which must be paid by the student.

Progression Requirements

1. Students must have a GPA of 3.0 in all required accounting and legal studies (LSTD) courses in order to graduate (in addition to the 3.0 overall GPA required by the university).
2. Students cannot retake a required course in the MAcc program more than once.

As stated in the University's Mission and Values Statements, "Georgia Southern University creates a caring, respectful, environment that is deeply committed to ethical decision-making in the spirit of collegiality." In addition, students are expected to adhere to the University Honor Code. Failing to uphold the University's values or violating the Honor Code may result in a student's dismissal from the program.

Parker Graduate Academic Intervention Policy

Graduate business students who are placed on academic probation by the university will be placed on **Academic Intervention** by the Parker College of Business until they are no longer on probation. Within 30 days of being notified by the Registrar's office or Graduate School, the student must complete and submit the Parker Graduate Academic Improvement Plan (PGAIP) form to his/her program advisor. The form requires students to identify the top two factors contributing to their academic difficulty and then requires them to list two specific actions that they will take during the next semester to address those factors. Next, the form requires students to determine the actions that are required to return to good academic standing. The form is reviewed by the program advisor who will meet with the student if necessary. The student's progress on the PGAIP will guide the program when making decisions on academic exclusion or appeal for reinstatement. Failure to complete the PGAIP form will weigh negatively toward the program's decision to support a reinstatement appeal.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Applied Economics Certificate (Online)

Certificate Requirements: 18 Credit Hours

Admission Requirements

The graduate Certificate in Applied Economics is designed to provide students with analytical capabilities in theoretical and applied economics. In addition, students who complete the certificate will meet the SACSCOC faculty credentials requirement of 18 graduate hours in economics, without completing the 30 hours required for the Online Master of Science in Applied Economics (MSAE) program. Applicants must be admitted to the College of Graduate Studies as Regular admission students.

Regular Admission

Admission into the Applied Economics Certificate program is competitive. To be considered for regular admission students must satisfy the following requirements:

1. Bachelor's degree from an accredited college or university
2. Undergraduate GPA: minimum of 3.00 on a 4.00 point scale
3. Competitive GRE scores
4. Completed courses in calculus, statistics, macroeconomics, and microeconomics with a minimum grade of "C" in each course and a minimum GPA of 3.00 on a 4.00 scale in these courses

The GRE requirement may be waived at the discretion of the Program Director for applicants holding a graduate degree in a quantitative field.

Application Deadlines

The deadlines for completed applications are as follows:

	Fall	Spring	Summer
Final	July 15	November 15	Does not admit

Admission to the program is competitive and decisions are made shortly after a complete application has been received. Since seats are filled as decisions are made, applicants are encouraged to complete their application as soon as possible so that there is enough time to address any application deficiencies well ahead of the final deadline.

Program of Study

	Credit Hours
Required Courses	12
ECON 7130 Math for Applied Economics	
ECON 7131 Microeconomics	
ECON 7132 Macroeconomics	
ECON 7232 History of Economic Thought	
Electives	

Select two of the following courses:

ECON 7133	International Economics
ECON 7331	Applied Econometrics I
ECON 7332	Applied Econometrics II
ECON 7333	Economic Forecasting
ECON 7431	Regional Economic Development
ECON 7531	Industrial Organization
ECON 7631	Advanced Financial Economics
ECON 7632	Financial Economics and Risk
ECON 8131	Health Economics
ECON 8231	Behavioral Economics
ECON 8331	Applied Dynamic Optimization

Total Credit Hours

18

Parker Graduate Academic Intervention Policy

Graduate business students who are placed on academic probation by the university will be placed on **Academic Intervention** by the Parker College of Business until they are no longer on probation. Within 30 days of being notified by the Registrar's office or Graduate School, the student must complete and submit the Parker Graduate Academic Improvement Plan (PGAIP) form to his/her program advisor. The form requires students to identify the top two factors contributing to their academic difficulty and then requires them to list two specific actions that they will take during the next semester to address those factors. Next, the form requires students to determine the actions that are required to return to good academic standing. The form is reviewed by the program advisor who will meet with the student if necessary. The student's progress on the PGAIP will guide the program when making decisions on academic exclusion or appeal for reinstatement. Failure to complete the PGAIP form will weigh negatively toward the program's decision to support a reinstatement appeal.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Applied Economics M.S.

Degree Requirements: 30 Credit Hours

Admission Requirements

The Online Master of Science in Applied Economics (MSAE) program objective is to provide graduates with analytical capabilities in economic development, financial economics, and regulatory issues. Applicants must be admitted as Degree Student Regular Admission.

Regular Admission

Admission into the Master of Science in Applied Economics program is competitive. To be considered for regular admission students must satisfy the following requirements:

1. Bachelor's degree from an accredited college or university
2. Undergraduate GPA: minimum of 3.00 on a 4.00 point scale
3. Competitive GRE score

6. 4. Completed courses in calculus, statistics, macroeconomics, and microeconomics with a minimum grade of "C" in each course and a minimum GPA of 3.00 on a 4.00 scale in these courses.

The GRE requirement may be waived at the discretion of the MSAE Program Advisor for applicants holding a graduate degree in a quantitative field.

Application Deadlines

The deadlines for completed applications are as follows:

	Fall	Spring	Summer
Final	July 15	November 15	Does not admit

Admission to the program is competitive and decisions are made shortly after a complete application has been received. Since seats are filled as decisions are made, applicants are encouraged to complete their application as soon as possible so that there is enough time to address any application deficiencies well ahead of the final deadline.

Graduate Transfer or Transient Credit

The Parker College of Business only accepts graduate transfer or transient credit hours from AACSB accredited programs not to exceed six (6) credit hours subject to review and approval by the MSAE Program Advisor.

Admission Appeals

Applicants who are denied admission may appeal to the Parker College of Business Graduate Curriculum and Programs Committee (GCPC). Factors that the GCPC may consider for admission will include (but are not limited to) the following:

1. Probability of success in the program.
2. The diversity the applicant brings to the degree program.
3. Space availability in the program.

The GCPC will make its decision based on the best interests of the program. Its options include, but are not limited to, the following: admit with no restrictions, admit with restrictions, or deny.

Program of Study

	Credit Hours
Required Courses	15
ECON 7130	Math for Applied Economics
ECON 7131	Microeconomics
ECON 7132	Macroeconomics
ECON 7331	Applied Econometrics I
ECON 7332	Applied Econometrics II
Electives	
Select five of the following courses:	15
ECON 7133	International Economics
ECON 7232	History of Economic Thought
ECON 7333	Economic Forecasting
ECON 7431	Regional Economic Development
ECON 7531	Industrial Organization
ECON 7631	Advanced Financial Economics
ECON 7632	Financial Economics and Risk
ECON 8131	Health Economics
ECON 8231	Behavioral Economics

ECON 8331 Applied Dynamic Optimization	
Total Credit Hours	30

Parker Graduate Academic Intervention Policy

Graduate business students who are placed on academic probation by the university will be placed on **Academic Intervention** by the Parker College of Business until they are no longer on probation. Within 30 days of being notified by the Registrar's office or Graduate School, the student must complete and submit the Parker Graduate Academic Improvement Plan (PGAIP) form to his/her program advisor. The form requires students to identify the top two factors contributing to their academic difficulty and then requires them to list two specific actions that they will take during the next semester to address those factors. Next, the form requires students to determine the actions that are required to return to good academic standing. The form is reviewed by the program advisor who will meet with the student if necessary. The student's progress on the PGAIP will guide the program when making decisions on academic exclusion or appeal for reinstatement. Failure to complete the PGAIP form will weigh negatively toward the program's decision to support a reinstatement appeal.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Business Administration M.B.A.

Degree Requirements: 36 Credit Hours

Admission Requirements

The Master of Business Administration (MBA) program seeks to create organizational leaders who have strong analytical and technical skills, business and functional skills, and people and leadership skills and who evaluate business decisions through the lens of ethics, integrity, and professionalism. Our 36-credit hour program uses a cohort model and therefore admits only degree seeking students.

Admission to the MBA Program is competitive. The admissions committee looks at a variety of criteria that measure the candidate's potential for being a successful graduate student and organizational leader. To apply, applicants must have:

- Minimum 2 years of relevant work experience (following completion of a bachelor's degree);
- Undergraduate degree from an accredited institution (Official transcripts from all credit-granting institutions attended must be submitted);
- Resume detailing both work experience and education;
- Essay describing applicant's potential for success in the program;
- TOEFL or IELTS scores (if applicant does not hold a degree from a program or university where English is the official language of instruction); and
- Completed application form (including a \$50 nonrefundable application fee paid online at time of application submission).

Georgia Southern is a military-friendly institution. Additional consideration is given to applicants with service in any military branch, reserve unit, or National Guard (active, retired, or prior service; Form DD 214 #4 required).

Additional consideration is also given to applicants who possess an undergraduate business degree from an AACSB-accredited institution. Admission decisions are made shortly after a complete application has been received. Submit the application online at the College of Graduate Studies website.

Application Deadlines

The deadlines for completed applications are as follows:

	Fall	Spring	Summer
Priority	March 15	Does not admit	Does not admit
Final	July 15	Does not admit	Does not admit

Since seats are filled as decisions are made, applicants are encouraged to complete their application as soon as possible so that there is enough time to address any application deficiencies well ahead of the final deadline. In addition, those who apply by the Priority Deadline are given priority for graduate assistantships.

Graduate Transfer or Transient Credit

The Parker College of Business accepts graduate transfer or transient credit only from AACSB accredited programs not to exceed nine (9) credit hours subject to review and approval by the MBA Program Advisor.

The MBA program is a cohort-based lock-step program. Therefore, the program does not accept transient students.

MBA Program Requirements

Requirements in the Program of Study leading to the Master of Business Administration include prerequisite work in four areas, thirty hours of required coursework designed to strengthen both hard skills and soft skills, and six hours of electives.

Program of Study: M.B.A. Degree

Prerequisites

Applicants admitted to the College of Graduate Studies as a prospective candidate for the Master of Business Administration degree must present evidence of satisfactory completion (a minimum grade of "C") of the following undergraduate course content in Business Administration:

- Financial Accounting Principles
- Principles of Corporate Finance
- Principles of Microeconomics
- Business Statistics

The prerequisite requirements for admission to the MBA program may be completed by taking the appropriate undergraduate courses from Georgia Southern University or from other accredited institutions. The prerequisites may also be satisfied by other approved methods. Contact the MBA Program Advisor for more information

Program Requirements

MBA Requirements			Credit Hours
MBA	7610	Effective Managerial Communications	30
MBA	7611	Leadership: Motivating, Inspiring, and Team Building	
MBA	7620	Negotiation and Conflict Resolution	30
MBA	7621	Leadership: Coaching, Driving Results, and Managing Change	
MBA	7630	Managerial Business Analytics	30

MBA 7631	Accounting: The Framework for Decision-Making	
MBA 7632	Economic Analysis for Business Decisions	
MBA 7633	Marketing Decision Making	
MBA 7634	Financial Analysis	
MBA 7635	Managing Information Technology	
MBA 7636	Managing Operations for Competitive Advantage	
MBA 7637	Strategy and Competitive Advantage	
MBA Electives		6
Graduate level courses offered by Georgia Southern University that are approved by the MBA Program Advisor		
Total Credit Hours		36

Parker Graduate Academic Intervention Policy

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Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Business Administration M.B.A. (The Georgia WebMBA)

Degree Requirements: 30 Credit Hours

The online Georgia WebMBA® curriculum consists of 10 courses completed two courses each term for five consecutive terms. A preprogram orientation is required. Convenient and affordable, the WebMBA® provides quality instruction in a Web-based virtual setting. The program is administered through a consortium of seven University System of Georgia institutions comprising the Georgia WebMBA®.

Admission Requirements

Students who are admitted to the College of Graduate Studies with the expressed intention of following a program leading to a graduate degree are classified as degree students.

Degree Student

When admitted as a degree student, the applicant will be placed in one of the following categories: Regular Admission or Provisional Admission.

Regular Admission

1. Complete the Graduate Admission Application Form at <http://cogs.georgiasouthern.edu/>.
2. Pay a \$50.00 application fee.
3. Send an official transcript from all colleges and universities attended to:
Georgia Southern University
College of Graduate Studies
Admissions Office
P.O. Box 8113
Statesboro, GA 30460-8113
(912) 478-0587
4. Submit your résumé.
5. Submit your TOEFL or IELTS score (international students only).

Provisional Admission

Applicants may be approved for provisional admission if all criteria are not met to gain regular admission. Provisional students must earn grades of "B" or higher on their first nine (9) credit hours of course work after admission and must meet any other stipulations outlined by the MBA Program Advisor to be converted to regular status.

Application Deadlines

The deadlines for completed applications are as follows:

	Fall	Spring	Summer
Final	July 15	November 15	Does not admit

Admission decisions are made shortly after a complete application has been received. Since seats are filled as decisions are made, applicants are encouraged to complete their application as soon as possible so that there is enough time to address any application deficiencies well ahead of the application deadline.

Graduate Transfer or Transient Credit

The Online MBA program is a cohort-based lock-step program. Therefore, the program does not accept transient students. The Parker College of Business accepts graduate transfer or transient credit only from AACSB accredited programs not to exceed six (6) credit hours subject to review and approval by the MBA Program Advisor or the College of Business Graduate Curriculum and Programs Committee.

Admission Factors

Admission to the Online MBA program is competitive. The Program looks at a variety of criteria that measure the candidate's potential for being a successful graduate student and business leader. Factors used in determining admission include past academic performance and professional work experience.

Admission Appeals

Applicants who are denied admission may appeal to the Parker College of Business Graduate Curriculum and Programs Committee (GCPC). Factors that the GCPC may consider for admission will include (but are not limited to) the following:

1. Probability of success in the program.
2. The diversity the applicant brings to the degree program.
3. Space availability in the program.

The GCPC will make its decision based on the best interests of the program. Its options include, but are not limited to, the following: admit with no restrictions, admit with restrictions, or deny.

Program Requirements

Prerequisites

A prospective candidate must present evidence of satisfactory completion (a minimum grade of “C”) of the following undergraduate equivalent course content in Business Administration or take the graduate prerequisites or undergraduate equivalents before enrolling in 6000 level coursework:

Financial Accounting Principles
 Principles of Corporate Finance
 Principles of Microeconomics
 Business Statistics

The prerequisite requirements may also be completed by successfully completing online course content modules. Modules information is available on request from the Office of Graduate Programs.

Program of Study

	Credit Hours
WebMBA® Requirements	30
WMBA 6000 Human Behavior in Organizations	
WMBA 6010 Managerial Accounting	
WMBA 6030 Global and International Business	
WMBA 6040 Managerial Decision Analysis	
WMBA 6050 Strategic Marketing	
WMBA 6060 Managerial Finance	
WMBA 6070 Entrepreneurship-New Venture Analysis	
WMBA 6080 Management Information Systems	
WMBA 6100 Operations and Supply Chain Management	
WMBA 6110 Business Strategy	
Total Credit Hours	30

Parker Graduate Academic Intervention Policy

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Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.

Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu

Business Administration Ph.D (Logistics and Supply Chain Management)

Degree Requirements: 60 Credit Hours

Program Mission Statement

The program’s intended outcomes are to provide students with:

1. Advanced understanding of the core areas of study within the field of supply chain management, including logistics and transportation
2. Advanced knowledge, skills, and values in at least one of the core areas (operations management, marketing, or information systems) for specialized roles within supply chain management
3. Advanced analytical and assessment skills
4. Advanced capability to develop, conduct, and manage applied research streams
5. Ethical decision-making and integrity
6. Professional and personal responsibility
7. Understanding of, and respect for, persons from diverse cultural, socioeconomic, educational, and professional backgrounds
8. Commitment to improving the economy, employment levels and competitiveness of the state of Georgia

Admission Requirements

Applicants to the PhD program must submit the following:

- Completed online graduate application form (<http://cogs.georgiasouthern.edu/admission/start/applynow/>)
- \$50 application fee
- Official transcript(s) from colleges and universities attended, showing courses completed, grades earned, dates, and degree(s) awarded.
- Three letters of recommendation. At least one letter must be from a graduate school faculty member.
- Official score from the GMAT taken in the last five years. An original copy of the test score, sent by the testing agency to the Office of Admissions, is required before final action will be taken on an application. A copy of the score provided to the student and subsequently forwarded is not acceptable for final admission decisions. The GRE will only be considered in exceptional cases.
- All international applicants, including resident and nonresident aliens, whose native language is not English, are required to submit official TOEFL scores taken within the year immediately preceding the requested semester of admission. An original copy of the test score, sent by the testing agency to the Office of Admissions, is required before final action is taken on an application. A copy of the score provided to the student and subsequently forwarded is not acceptable. International students that have a degree from a US university may have this requirement waived;
- Statement of purpose that includes a description of professional goals and a rationale for how the Ph.D. program will further the student’s career objectives.
- A current resume that includes, as a minimum, all academic programs, completed an employment history, and any professional certifications or other significant achievements and honors.
- Applicants whose submitted application packages merit closer consideration may be asked to participate in an interview and/or

submit additional information before a final decision is reached concerning their acceptance.

Acceptance decisions will be made, subject to budgetary constraints, first within the Parker College of Business and ultimately at the College of Graduate Studies. After reviewing application materials, the Program Director may accept applicants who meet all of the following conditions:

- Successfully completed BBA or MBA from an AACSB-accredited program; an MBA is strongly preferred
- Scored at least a 550 on the GMAT or for exceptional cases where the GRE will be considered, the score must be above 1200
- If English is not the applicant's native language, scored above 80 on TOEFL

The Program Director will submit all remaining applications, along with his/her recommendations, to the Ph.D. Advisory Committee for their decision. Once a decision has been made within the Parker College of Business, the Program Director will forward all applications to the College of Graduate Studies for final disposition.

Accepted applicants who have not completed an AACSB-accredited MBA or an appropriately-accredited Master's Degree in a field closely related to Logistics/Supply Chain Management may be required to complete all specified prerequisite courses (or courses determined by the Program Director to be equivalent) with grades of "C" or better before taking appropriate doctoral-level courses.

Applicants who wish to apply for a graduate assistantship must also complete the Electronic Graduate Assistantship Application (<http://cogs.georgiasouthern.edu/new-current-students/graduate-assistantships-information/>) and submit it to the Jack N. Averitt College of Graduate Studies.

Program Requirements

Graduate Transfer or Transient Credit

The Parker College of Business accepts graduate transfer or transient credit only from AACSB accredited programs. A maximum of two courses not to exceed six (6) credits may be considered for graduate transfer or transient credit.

Coursework

Students will be required to complete the courses specified in the Program of Study shown below with an overall GPA of 3.0 or better. One time only, a student may receive a grade of "C", but will be required to re-take the course and earn a "B" or better and will also have to still achieve a cumulative GPA of 3.0 by the time they've completed their coursework. More than one "C" or any grade lower than a "C" will be grounds for elimination from the program. Any prerequisite courses must be completed within one calendar year of the student's acceptance into the program. All required coursework (i.e. core, research, and concentration courses) must be completed within three years of the time the student enters the program or completes prerequisite coursework, whichever is later. (Students in violation of policies on grades or time limits may submit a written appeal to the Ph.D. Advisory Committee via the Program Director, explaining why they believe their situation merits an exception to the policy.)

Comprehensive Examinations

Students will be required to pass one or more comprehensive examinations covering all coursework specified in the Program of Study before they may begin any dissertation activities (to include formation of the committee). The Program Director will be responsible for the creation, administration, and evaluation of these exams, although he/she may delegate associated tasks to other faculty members. At the discretion of the Program Director, all coursework may be covered by a single comprehensive exam or up to three separate exams may be given for the

categories of core courses, research courses, and concentration courses, as differentiated in the Program of Study. Comprehensive exams may include both written and oral components and will be evaluated on a Pass/Fail basis. The Program Director will notify students in writing of whether they have passed and, if not, what areas require further study. Students may re-take any comprehensive exam once, if needed. Failure to pass any comprehensive exam after two attempts will result in termination of the student's enrollment in the program. When a student has completed all required comprehensive exams, he/she will be considered a candidate for the Ph.D.

Dissertation

Following successful completion of all required comprehensive exams, candidates will formulate an appropriate dissertation topic that is likely to produce high-quality research publications. The candidate will then contact potential committee members to ascertain their suitability and willingness to serve on a Dissertation Committee for that topic. (The size and composition of the committee, as well as eligibility requirements for committee chairs and members will be defined in a Parker College of Business Policy statement that is consistent with the College of Graduate Studies dissertation committee and appointment policy and will be made available to candidates by the Program Director no later than the time they are notified of having passed their comprehensive exams.) As soon as verbal commitments have been obtained, the candidate will submit the proposed dissertation topic and committee composition in writing to the Program Director. The Director will review the proposal for compliance with program and college policies, inform the student of any needed changes, and ultimately approve the proposal. Students must register for Dissertation (LSCM 9999), Dissertation credit hour during each semester the dissertation is in progress, earning a minimum of 18 credit hours of Dissertation by the end of their program. Furthermore, the students must register continuously in Dissertation (LSCM 9999) until the Dissertation is successfully defended. As soon as the Dissertation Committee Chair considers the intended research to be sufficiently developed, the student will conduct a formal defense of his/her dissertation proposal, supported by substantial preliminary research. As a minimum, the proposal will include a detailed description of the proposed research objectives, methodology, and value. It must also include a thorough literature review showing how the proposal relates to previously published research and a timeline for the project's completion. The Committee chair will notify the candidate in writing of the committee's assessment, to include any changes or additional tasks that need to be accomplished and whether another proposal defense will be needed. No earlier than the following semester and no later than two years from the semester in which the proposal was successfully defended, the candidate must conduct a formal defense of the completed dissertation. The Committee chair will notify the candidate in writing of whether the final defense was successful and what additional actions the Committee requires (to include the possibility of another formal defense). The candidate is responsible for submitting the completed dissertation in electronic format style consistent with that required by the Parker College of Business dissertation publication and consistent with the required College of Graduate Studies front-matter style per the College of Graduate Studies Electronic Thesis and Dissertation (ETD) policy.

Leave of Absence

If it is necessary to interrupt progress toward the degree, the student may petition for a non-medical leave of absence of up to one year. The petition must be submitted at least one month before the effective date of leave. The major professor, the department chair, and the Dean of the College of Graduate Studies must grant approval. The Graduate Studies Dean will establish the conditions of the leave. An extension of a leave of absence beyond one year may be granted by the Dean of the College of Graduate Studies upon recommendation of the student's dissertation committee. Students approved for a leave of absence are not required to be registered during the approved leave period and the leave time does not count in the degree time limit. Students seeking a Medical Leave of

Absence may apply for Medical Leave as outlined under the Hardship Withdrawal (p. 555) section.

Time Limits

- Completion of all prerequisite coursework must be completed no later than one year from acceptance into program
- Completion of all required coursework beyond prerequisites (i.e. core, research, and concentration courses) must be completed no later than three years from acceptance into program or completion of prerequisite coursework, whichever is later
- Successful completion of comprehensive exam(s) must be completed no later than two semesters from completion of required coursework
- Approval of dissertation topic and committee must be completed no later than two semesters from completion of comprehensive exams
- Successful defense of dissertation proposal must be completed no later than two semesters from topic/committee approval or three semesters from completion of comprehensive exams, whichever is sooner
- Successful final defense of dissertation must be completed no later than two years from successful proposal defense
- Satisfaction of all requirements for submission of completed dissertation must be completed no later than one semester from successful final dissertation defense
- Completion of all program requirements, to include coursework, practicum, and dissertation must be completed no later than seven years from beginning of required coursework beyond prerequisites

NOTES:

1. Students in violation of policies on grades or time limits may submit a written appeal to the Ph.D. Advisory Committee via the Program Director, explaining why they believe their situation merits an exception to the policy.
2. Enrollment and participation are expected to be continuous from a student's acceptance into the program. A student who needs to be excused from enrollment for one semester due to unusual circumstances should submit a written request and explanation to the Program Director. The Director may grant one such excusal, but anything more will require consideration by the Parker College of Business Graduate Curriculum and Programs Committee.

Annual Reviews

At the conclusion of each Spring semester, the Program Director will solicit feedback from all faculty who've had any significant professional interaction with any of the program's students during the preceding year. Combining this feedback with his/her direct observations, the Director will accomplish a written review of each student's performance during the preceding year. The review will culminate with a recommendation as to whether the student should be retained in the program. Students will be given the option of offering a written response within three workdays. If, after considering any written response, the Program Director still believes a student should be eliminated from the program, he/she will submit the recommendation (with all supporting materials) for a decision by the Ph.D. Advisory Committee. At the same time, the Director will submit key data for all students enrolled in the program to that committee for review. As a minimum, the data for each student will include a list of all courses taken, all grades earned, and the start and completion date for each major stage of the program, i.e. prerequisite coursework, required coursework, comprehensive exams, dissertation topic/committee approval, proposal defense, final defense, and submission of completed dissertation. Based on this data, the Director will ask the committee to consider the elimination of all students in violation of any program policy on grades or time limits, including any appeals submitted by those students.

Program of Study: Ph.D. in Logistics and Supply Chain Management Degree

A student admitted to the College of Graduate Studies as a prospective candidate for the Ph.D. in Logistics and Supply Chain Management degree must present evidence of satisfactory completion (a grade of "C" or better) of the following "Prerequisite" course content in Business or graduate equivalents, unless a waiver is obtained from the Ph.D. Program Director.

Prerequisites

			Credit Hours
Prerequisites			12
MBA	7630	Managerial Business Analytics	
MBA	7633	Marketing Decision Making	
MBA	7635	Managing Information Technology	
MBA	7636	Managing Operations for Competitive Advantage	
Total Credit Hours			12

Program of Study

			Credit Hours
Required Courses			54
BUSA	9332	Applied Multivariate Methods for Business Research	
BUSA	9333	Advanced Multivariate Methods for Business	
BUSA	9334	Qualitative Research Methods in Business	
LSCM	9131	Logistics Management	
LSCM	9331	Analysis of Secondary Data for Supply Chain Management Research	
LSCM	9630	Supply Chain Management Theories	
LSCM	9631	Research Processes and Philosophies in Supply Chain Management	
LSCM	9632	Operations Management	
LSCM	9633	Research Trends in Logistics	
LSCM	9634	Supply Chain Management Research	
LSCM	9635	Supply Management	
LSCM	9801	Comprehensive Exam Preparation	
LSCM	9999	Dissertation (A minimum of 18 total hours)	
Focused Methods			3
Additional depth in any method suitable for LSCM research in the Parker College of Business or across GSU. To be arranged and subject to program's administrative approval.			
Directed Study			3
Project-based, independent, special topics or other studies available and approved prior to or along with dissertation work. Must be suitable for LSCM research and offered in the Parker College of Business or across GSU. To be arranged and subject to program's administrative approval.			
Total Credit Hours			60

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more

information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Enterprise Resources Planning (ERP) Certificate Program (Online)

Certificate Requirements: 15 Credit Hours (Online)

Program

The ERP Certificate program consists of five 3-credit hour graduate-level CISM courses, all of which will be delivered online. Students completing the ERP Certificate Program have the opportunity to earn the SAP TS410 Business Process Integration Certification.

The ERP Certificate program is a lock-step program and admitted students are assigned to a cohort for which there will be prescribed courses. Students in the ERP Certificate program who enter other graduate programs at the university, such as the MBA, MAcc, and MS in Applied Engineering may be able to use some or all of the ERP Certificate courses to satisfy degree requirements.

The ERP Certificate Program focuses on the knowledge and skills students need for careers in organizations that rely on ERP systems to support key business processes. Students in the program will receive a solid, applied enterprise systems educational experience and will exit the program with a realistic overview of ERP systems and hands-on experience using SAP.

The ERP Certificate program is also designed to assist students preparing for and passing SAP's TS410 certification exam. Students who pass the certification test will be listed in SAP's database of certified business practitioners. The TS410 certification is recognized worldwide and a continuing global shortage of skilled SAP workers will enable students who earn the ERP Certificate to compete for a wide range of jobs.

Admission Requirements

Admission to the ERP Certificate program is competitive. The ERP Certificate program's admission committee reviews applications on an individual basis looking at both the quantitative and qualitative aspects of the applicant's academic background and professional experience (if applicable). The committee seeks to assess each applicant's potential for academic success in an online graduate program based on the following:

1. Admission to the Georgia Southern University College of Graduate Studies as a Non-Degree Certificate student. This requires the following:
 - a. Completion of a Bachelor's degree or equivalent from a college accredited by the proper regional association with a 2.7 (4.0 scale) cumulative grade point average or higher on undergraduate work.
 - b. Official copies of all undergraduate and graduate, if appropriate, transcripts.
 - c. An updated resume that includes the following:
 - i. Work history,
 - ii. Education history,
 - iii. Professional experiences related to the academic program, and
 - iv. Contact information for a minimum of three references.

- d. A personal statement that includes a description of career goals and reasons for applying to the graduate ERP Certificate program.
- e. Students whose first language is not English and who have not studied extensively in English must submit official TOEFL scores. TOEFL scores of at least 80 (internet-based), 213 (computer-based), or 550 (paper-based) are required for admission to the ERP Certificate program. TOEFL scores must be sent directly from the Educational Testing Service (ETS) to Georgia Southern University.
- f. Students who are not U.S. citizens must provide a photocopy of their VISA or permanent resident alien cards and satisfy all other admission requirements specified by COGS for international students.
- g. Students interested in applying course credit earned while completing the ERP Certificate toward the requirements for an MBA, MAcc, or MS in Applied Engineering degree must also satisfy the admission requirements for that degree program.

NOTE: Contact the Office of Graduate Admissions for other admission related information.

Admission Appeals

Students who wish to appeal an admission decision must follow the College of Graduate Studies appeal procedures.

Graduate Transfer or Transient Credit

Due to the lock-step nature of the program, credit hour will not be granted for courses taken outside of the ERP Certificate program.

Program of Study

Prerequisites

Students accepted to the program must have previous accounting experience or related coursework. Prospective students without accounting experience or related coursework can take (ACCT 6130) or its undergraduate equivalent, Survey of Accounting (ACCT 2030), prior to Fall Semester.

		Credit Hours
Course requirements		12
CISM 7231	ERP Business Process Analysis Using SAP	
CISM 7331	Enterprise Systems Analysis	
CISM 7335	Business Intelligence and Performance Management Systems	
CISM 7339	ERP Certification Review	
Select one of the following Prescribed Electives will be scheduled for each cohort:		3
CISM 7235		
CISM 7336	Enterprise Information Systems	
Total Credit Hours		15

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)

Email: gradschool@georgiasouthern.edu

Forensic Accounting Certificate

Certificate Requirements: 12 Credit Hours Program

The Graduate Certificate in Forensic Accounting program is designed to provide the advanced knowledge and skills graduates need to investigate asset theft and financial statement fraud, to design internal control systems that detect and/or prevent fraud, and to serve effectively as expert witnesses in a court of law.

Admission Requirements

Applicants must be admitted to the College of Graduate Studies as one of the following types: Degree with Certificate or Certificate Only.

Degree with Certificate

The Forensic Accounting Certificate Program is open to any qualified, degree-seeking graduate student at Georgia Southern University. Both a degree-seeking application and an application to the Certificate program must be submitted.

Master of Accounting program students may apply for admission to the degree program and the certificate program simultaneously to earn the Certificate as an extension of their MAcc program of study. A degree seeking application and an application to the Certificate program must be submitted. As part of the MAcc application process, the MAcc Program Advisor reviews applications on an individual basis looking at both the quantitative and qualitative aspects of the applicant's academic background and professional experience (if applicable). The Advisor seeks to assess each applicant's potential for academic success and future professional growth based on the following:

- *Statement of Purpose Essay: This essay is an optional component which allows the faculty to consider the applicant's motivation as well as written communication skills.*
- *Past Academic Performance: While there is no minimum undergraduate grade point average (GPA) requirement, the MAcc Program Advisor views past grades as an important indicator of the applicant's future academic performance. The Advisor may also consider the ranking and reputation of the applicant's undergraduate institution.*
- *Extracurricular Activities: Public, community, or military service; travel experiences; extracurricular activities, hobbies and special aptitudes; and any honors or recognitions received are all important indicators of the applicant's motivation and character.*
- *Letters of recommendation: Letters are optional but may boost a candidate's chances for admission. References should speak to the applicant's personal qualities, career potential, and potential to succeed in the classroom.*

As permitted by their degree program, students may apply coursework to both the certificate program and their degree. It is not required that the certificate and degree be completed simultaneously, however, students must be enrolled to take classes and the seven-year limitation on the application of prior coursework to either the degree or the certificate must be satisfied. Upon recommendation of the MAcc Program Advisor and approval from the College of Graduate Studies, credit earned in a certificate program may be applied to a graduate degree program.

Certificate Only

Students seeking only the Graduate Certificate or the Graduate Certificate independent of another degree program, may be admitted by the College of Graduate Studies (COGS) under a Non-Degree Certificate admission

status. Admission as Non-Degree Certificate does not guarantee subsequent admission to a graduate degree program. Applying to a graduate program is a separate process and different criteria must be met. Certificate program admissions decisions are based on applicants' prior academic work and other factors that indicate their potential for program success and enrichment of the learning environment. Upon recommendation of the graduate program director and approval of the College of Graduate Studies, a maximum of six (6) credits earned before the student entered the certificate program may be applied to that program.

The minimum grade requirements for the graduate certificate are the same as those for graduate degrees. For graduate credit, the grade in a course must be "C" or higher. To remain in good standing, a student must maintain a cumulative GPA of 3.0 or higher. To be awarded a graduate certificate, students:

1. must not be on probation;
2. must have a cumulative GPA of 3.0 or higher on graduate coursework and on coursework applied to the certificate;
3. must meet all the requirements of COGS and the student's certificate program; and
4. must be enrolled during the semester in which the certificate requirements are completed.

COGS residence requirements and the requirements for a comprehensive final examination do not apply to the graduate certificate program.

Application Deadlines

The deadlines for completed applications are as follows:

	Fall	Spring	Summer
Priority	March 15	October 15	March 15
Final	July 15	November 15	April 15

Admission to the program is competitive and decisions are made shortly after a complete application has been received. Since seats are filled as decisions are made, applicants are encouraged to complete their application as soon as possible so that there is enough time to address any application deficiencies well ahead of the final deadline.

Program of Study

Prerequisites

Applicants admitted to the College of Graduate Studies as a prospective candidate for the Certificate in Forensic Accounting must present evidence of satisfactory completion (a minimum grade of "C") of the following undergraduate course content:

Accounting:

- Intermediate Accounting
- Managerial Accounting
- Income Tax
- Accounting Information Systems
- Auditing

General Business:

- Financial Accounting Principles
- Managerial Accounting Principles
- Macroeconomics
- Microeconomics
- Corporate Finance
- Legal and Ethical Issues in Business
- Management Principles

Marketing Principles
Business Statistics

Fraud Examination:

Fraud Examination
Fraud Schemes
White Collar Crime
Forensic Interviews and Interrogations

The Fraud Examination prerequisite courses are offered face to face on campus during the academic year and online in the summer. Successful completion of the ACFE exam or fraud examination boot camp (when offered) may be considered sufficient for completion of the fraud examination course prerequisites for admission into the Forensic Accounting program.

	Credit Hours
Required Courses	9
ACCT 7634 Fraudulent Financial Reporting	
ACCT 7636 Expert Witnessing	
ACCT 7637 Forensic Accounting Capstone	
Electives	3
Select one of the following courses:	
ACCT 7131 Selected Topics in Accounting	
ACCT 7638 Business Valuation	
ACCT 7730 Internship in Accounting	
CRJU 5003G Cyber Forensics	
CRJU 5010G Applied Digital Forensics I	
CRJU 5020G Applied Digital Forensics II	
CRJU 5060G Special Topics in Cybercrime	
CRJU 5360G Hackers, Malware, and Online Economic Crime	
CRJU 5361G	
Total Credit Hours	12

On an exception basis with written student petition and prior approval of the Director of the School of Accountancy or the Graduate Curriculum and Programs Committee, other graduate courses may be substituted for required certificate courses.

Parker Graduate Academic Intervention Policy

Graduate business students who are placed on academic probation by the university will be placed on **Academic Intervention** by the Parker College of Business until they are no longer on probation. Within 30 days of being notified by the Registrar's office or Graduate School, the student must complete and submit the Parker Graduate Academic Improvement Plan (PGAIP) form to his/her program advisor. The form requires students to identify the top two factors contributing to their academic difficulty and then requires them to list two specific actions that they will take during the next semester to address those factors. Next, the form requires students to determine the actions that are required to return to good academic standing. The form is reviewed by the program advisor who will meet with the student if necessary. The student's progress on the PGAIP will guide the program when making decisions on academic exclusion or appeal for reinstatement. Failure to complete the PGAIP form will weigh negatively toward the program's decision to support a reinstatement appeal.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Graduate Certificate in Taxation

Certificate Requirements: 12 Credit Hours Program

The Graduate Certificate in Taxation imparts a basic knowledge of the major technical, conceptual, and research issues in the area of tax and taxation and provides training in the practical and procedural aspects of taxation. Students explore the ethical and legal obligations of practicing in the area of taxation. The Certificate program prepares students to be professional tax advisers and consultants, tax executives in private and public enterprises and leaders in the field.

Admission Requirements

Applicants must be admitted to the College of Graduate Studies as one of the following types: Degree with Certificate or Certificate Only.

Degree with Certificate

The graduate Certificate in Taxation program is open to any qualified, degree-seeking graduate student at Georgia Southern University. Both a degree seeking application and an application to the Certificate program must be submitted. Master of Accounting program students may apply for admission to the degree program and the certificate program simultaneously to earn the Certificate as an extension of their MAcc program of study. As part of the MAcc application process, the MAcc Program Advisor reviews applications on an individual basis looking at both the quantitative and qualitative aspects of the applicant's academic background and professional experience (if applicable). The Advisor seeks to assess each applicant's potential for academic success and future professional growth based on the following:

- **Statement of Purpose Essay:** This essay is an optional component which allows the faculty to consider the applicant's motivation as well as written communication skills.
- **Past Academic Performance:** While there is no minimum undergraduate grade point average (GPA) requirement, the MAcc Program Advisor views past grades as an important indicator of the applicant's future academic performance. The Advisor may also consider the ranking and reputation of the applicant's undergraduate institution.
- **Extracurricular Activities:** Public, community, or military service; travel experiences; extracurricular activities, hobbies and special aptitudes; and any honors or recognitions received are all important indicators of the applicant's motivation and character.
- **Letters of recommendation:** Letters are optional but may boost a candidate's chances for admission. References should speak to the applicant's personal qualities, career potential, and potential to succeed in the classroom.

As permitted by their degree program, students may apply coursework to both the certificate program and their degree. It is not required that the certificate and degree be completed simultaneously, however, students must be enrolled to take classes and the seven-year limitation on the application of prior coursework to either the degree or the certificate must be satisfied. Upon recommendation of the MAcc Program Advisor and approval from the College of Graduate Studies, credit earned in a certificate program may be applied to a graduate degree program.

Certificate Only

Students seeking only the Graduate Certificate or the Graduate Certificate independent of another degree program, may be admitted by the College of Graduate Studies (COGS) under a Non-Degree Certificate admission status. Admission as Non-Degree Certificate does not guarantee subsequent admission to a graduate degree program. Applying to a graduate program is a separate process and different criteria must be met. Certificate program admissions decisions are based on applicants' prior academic work and other factors that indicate their potential for program success and enrichment of the learning environment. Upon recommendation of the graduate program director and approval of the College of Graduate Studies, a maximum of six (6) credits earned before the student entered the certificate program may be applied to that program.

Application Deadlines

The deadlines for completed applications are as follows:

	Fall	Spring	Summer
Priority	March 15	October 15	March 15
Final	July 15	November 15	April 15

Admission to the program is competitive and decisions are made shortly after a complete application has been received. Since seats are filled as decisions are made, applicants are encouraged to complete their application as soon as possible so that there is enough time to address any application deficiencies well ahead of the final deadline.

Program of Study

The minimum grade requirements for the graduate certificate are the same as those for graduate degrees. For graduate credit, the grade in a course must be "C" or higher. To remain in good standing, a student must maintain a cumulative GPA of 3.0 or higher. To be awarded a graduate certificate, students:

1. must not be on probation;
2. must have a cumulative GPA of 3.0 or higher on graduate coursework and on coursework applied to the certificate;
3. must meet all the requirements of COGS and the student's certificate program; and
4. must be enrolled during the semester in which the certificate requirements are completed.

COGS residence requirements and the requirements for a comprehensive final examination do not apply to the graduate certificate program.

Program of Study

Prerequisites

Applicants admitted to the College of Graduate Studies as a prospective candidate for the Certificate in Taxation must present evidence of satisfactory completion (a minimum grade of "C") of the following undergraduate course content:

Accounting:

- Intermediate Accounting
- Managerial Accounting
- Income Tax
- Accounting Information Systems
- Auditing

General Business:

- Financial Accounting Principles
- Managerial Accounting Principles

- Macroeconomics
- Microeconomics
- Corporate Finance
- Legal and Ethical Issues in Business
- Management Principles
- Marketing Principles
- Business Statistics

Program Requirements

	Credit Hours
Required Courses	6
ACCT 7330 Taxation of Corporations and Partnerships	
ACCT 7334 Tax Research	
Electives	6
Select two of the following courses:	
ACCT 7131 Selected Topics in Accounting	
ACCT 7331 Taxation of Pass-Through Entities	
ACCT 7638 Business Valuation	
ACCT 7730 Internship in Accounting	
ACCT 7899 Directed Study in Accounting	
On an exceptional basis with written student petition and prior approval of the MAcc Program Advisor, other graduate courses may be substituted for required or elective certificate courses.	
Total Credit Hours	12

Parker Graduate Academic Intervention Policy

Graduate business students who are placed on academic probation by the university will be placed on **Academic Intervention** by the Parker College of Business until they are no longer on probation. Within 30 days of being notified by the Registrar's office or Graduate School, the student must complete and submit the Parker Graduate Academic Improvement Plan (PGAIP) form to his/her program advisor. The form requires students to identify the top two factors contributing to their academic difficulty and then requires them to list two specific actions that they will take during the next semester to address those factors. Next, the form requires students to determine the actions that are required to return to good academic standing. The form is reviewed by the program advisor who will meet with the student if necessary. The student's progress on the PGAIP will guide the program when making decisions on academic exclusion or appeal for reinstatement. Failure to complete the PGAIP form will weigh negatively toward the program's decision to support a reinstatement appeal.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

College of Education

Vision

We envision a College of Education that continues to grow in its national recognition for excellence and innovation in teaching, scholarship, and outreach; and becomes the choice for novice and experienced

professionals desiring a high quality, flexible education to help them meet their individual intellectual and career goals.

Mission

The mission of the College of Education is to prepare students to teach, lead, counsel, and model life-long learning; engage in scholarship that provides new pathways to meet the needs of a dynamic, diverse society; and facilitate access to learning opportunities that are authentic, student-centered, and technology-rich.

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Advisement

Graduate students are advised by a professional staff advisor or faculty member from their program. Graduate students should reach out to their graduate program director or the Graduate Academic Services Center for information regarding the structures in place to facilitate advisement.

For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can contact the Graduate Academic Services Center for more information about their program director or advisor. Phone: 912-478-1447

Email: gasc@georgiasouthern.edu

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Admission and Retention in College of Education Programs

A student must be formally admitted to the graduate degree program for which he/she intends to earn a degree. Refer to the College of Graduate Studies for limits on the number of courses that may be applied to a program for non-degree seeking students.

In order to be admitted in a graduate education program, a student must meet all admission criteria as identified for the specific graduate program (degree and non-degree).

Prior to a structured field placement (i.e., an internship, practicum, and on-going experience that is more than a one-time classroom project), a graduate student must:

1. Meet all admission and retention requirements for the graduate education program.
2. Have a disciplinary record clear of any actions which might be a detriment to placement and successful performance in a school or other educational/community agency internship setting.
3. Disclose any previous misconduct or professional ethics violations or any pending professional ethics violations (e.g., pending PSC investigations).
4. Exhibit appropriate mental, emotional, and physical health skills and capabilities needed to meet the expectations of the profession.
5. Confirm that he/she continues to hold tort liability insurance coverage.
6. If required by the program, a graduate student must have completed a criminal background check upon admission to the program or

must possess a Preservice Certificate from the Georgia Professional Standards Commission. Note: Certain programs may require criminal background rechecks prior to placements if more than two years have elapsed since the last criminal background check.

7. Participate in any required orientation activities for the internship.

All of the following requirements must be met for retention in a graduate education program:

1. Maintain required GPA.
2. Successfully complete all key assessments required by the program.
3. Successfully complete all field experiences required by the program.
4. Maintain an active account with the College of Education's electronic assessment and data management system while enrolled as a graduate student.
5. Successfully complete all requirements specified by the program and be making satisfactory progress toward achieving program outcomes. Programs will be responsible for monitoring student progress and providing guidance to students who may be having difficulty meeting retention requirements.
6. Must not have violated the Georgia Professional Standards Commission's Code of Ethics for Professional Educators. Must not have a past reprimand, monitoring, or warning statement in the educator's certification file. Failure to report any violation of state or federal law to the Georgia Professional Standards Commission within 90 days is grounds for exclusion from a program.
7. Maintain validity of Georgia Educator certificate required for program admission.
8. Must not have been found in violation of the Georgia Southern University Student Conduct Code. Reviews will be made on a case-by-case basis based on the seriousness of the violation and with regard to consistency.
9. Maintain liability insurance.
10. Students who are required to participate in structured field placements as part of their graduate program are required to have completed a criminal background recheck upon admission to the program. Students enrolled in the M.A.T. program who are not hired as teachers must apply for and receive a Preservice Certificate from the Georgia Professional Standards Commission: <https://coe.georgiasouthern.edu/advisement/certification/pre-service-certification/>. Note: Certain programs may require criminal background rechecks prior to placements if more than two years have elapsed since the last criminal background check.
11. Meet all retention criteria established by the College of Graduate Studies.

Be sure to check the specific program page in the catalog for additional requirements.

Admission and Retention in the Teacher Education Program

Admission to the Teacher Education Program (TEP) is required for those students wishing to pursue the M.A.T. degree or related non-degree program that leads to initial teacher certification. (See the Undergraduate Catalog (<http://catalog.georgiasouthern.edu/undergraduate/>) for undergraduate TEP requirements.)

In order to be admitted into the Teacher Education Program (TEP), a **graduate student** must have:

1. Earned a minimum cumulative GPA of 2.50 or better on all previously attempted coursework
2. Completed English composition and college algebra courses (or equivalents) with a minimum grade of "C."

3. Successfully completed the GACE Program Admission Assessment or be exempted by SAT/ACT/GRE scores.
4. Successfully completed the appropriate GACE Content Assessment. (Not required for MAT Concentration in Elementary Education, Health and Physical Education, or Special Education.)
5. Successfully completed the Georgia Educator Ethics (360) Assessment.
6. Acknowledge "Disclosure and Affirmation" statements that address the Georgia Code of Ethics for Educators and the need for tort liability insurance.
7. Submitted proof of liability insurance.
8. Created a MyPSC account with the Georgia Professional Standards Commission and claim Georgia Southern University as your program provider.
9. Received a Preservice Certificate or Provisional Certificate from the Georgia Professional Standards Commission.
10. Meet all program admission requirements.

All of the following requirements must be met for **retention** in the Teacher Education Program:

1. Students must maintain a cumulative GPA of 3.0 or higher, in the MAT program.
2. Students must earn a minimum grade of "C" in all professional education and all teaching field course work.
3. Students must successfully complete all field and clinical experiences.
4. Students must not have been found in violation of the Georgia Southern Student Conduct Code. Reviews will be made on a case-by-case basis based on the seriousness of the violation and with regard to consistency.
5. Students must not have violated the Georgia Professional Standards Commission's Code of Ethics for Professional Educators.
6. Students must be making satisfactory progress toward meeting program objectives. Programs will be responsible for monitoring student progress and providing guidance to students who may be having difficulty meeting retention requirements.
7. Maintain validity of Georgia educator certificate required for program admission.
8. Students must maintain liability insurance.
9. Students must maintain an active account with the College of Education's electronic assessment and data management system.
10. Students must meet all additional program requirements.

Admission to Graduate Clinical Practice

Clinical practice is required in all teacher preparation programs at the initial certification level. In order to participate in the student teaching/internship program, a teacher candidate in a MAT or graduate non-degree certification program must:

1. Meet all admission and retention requirements for the Teacher Education Program.
2. If not required for program admission, attempt the GACE Content Assessment for the field of certification.
3. Possess valid liability insurance.
4. Pass the Georgia Educator Ethics (360) Assessment (if not completed for program admission).
5. If not employed as a Teacher of Record, possess a Preservice Certificate from the Georgia Professional Standards Commission.
6. Candidates employed as Teachers of Record must be teaching full-time in the area of certification they are seeking during the semester of clinical practice/internship.

7. Apply for clinical practice by the established deadline one academic semester prior to registration for the course.
8. Note: School districts may have additional requirements for student teachers/interns placed in their schools. Student teachers/interns must meet these additional requirements.

Certification

The programs offered by the College of Education at the graduate level are designed to prepare teachers and other school personnel for certification in the State of Georgia. The College of Education, in accordance with the Georgia Professional Standards Commission, provides courses for individuals who wish to reinstate expired certificates, add fields, and update certificates. For individuals who hold a bachelor's degree, initial teaching certification may be obtained through the Master of Arts in Teaching (M.A.T.) program or similar non-degree graduate programs of study. Note: It is the students' responsibility to confirm that their academic plans meet current certificate requirements of the Georgia Professional Standards Commission.

All College of Education candidates completing programs that qualify and plan to seek initial certification in Georgia must file an application for an induction certificate. This will include opening a MyPSC account with the Georgia Professional Standards Commission and claiming Georgia Southern University as the program provider. The applications for initial certification along with the verification of legal presence (forms are available at www.gapsc.com (<http://www.gapsc.com>)) will be filed through the candidates MyPSC account or through the candidate's Board of Education. The Certification Officer will verify program completion to the Georgia Professional Standards Commission.

College of Education candidates who are employed as educators in the State of Georgia will complete the application for certification process through their local units of administration (LUA). Program completion will be verified to the Georgia Professional Standards Commission through the College of Education Certification Officer, Ms. Angela Mills-Fleming, 912-344-2552 or amills@georgiasouthern.edu.

Department of Curriculum, Foundations, and Reading

The Department of Curriculum, Foundations, and Reading provides a service function to all other programs in the College. Undergraduate and graduate level courses are offered in the areas of educational foundations, educational psychology, curriculum theory and development, reading education, and educational research. The Department also offers several graduate degree programs: A master's degree program in reading education and in evaluation, assessment, research, and learning; an education specialist degree program in reading education; and a doctoral degree program in curriculum studies. In addition to degree programs, the department offers the reading endorsement, the urban education endorsement, and graduate certificates in applied research and evaluation and in curriculum and pedagogy for social justice.

Programs

Doctoral

- Curriculum Studies Ed.D. (p. 101)

Education Specialist

- Reading Education (K-12) Ed.S. (Online) (p. 103)

Master's

- Evaluation, Assessment, Research, and Learning M.Ed. (Online) (p. 104)
- Reading Education M.Ed. (Online) (p. 104)

Certificates

- Applied Research and Evaluation Certificate Program (Online) (p. 105)
- Curriculum and Pedagogy for Social Justice Certificate (Online) (p. 106)

Endorsements

- Reading Endorsement: Classroom Teacher of Reading Program (Online) (p. 106)
- Urban Education Graduate Endorsement (Online) (p. 107)

Curriculum Studies Ed.D.

Degree Requirements: 66-78 (Minimum of 66 Credit Hours beyond Master's Including Dissertation, 60 Credit Hours beyond Master's Excluding Dissertation)

Admission Requirements

The following minimum admission requirements must be met:

1. Complete requirements for a master's degree from a regionally accredited institution.
2. Present a minimum grade point average of 3.25 (4.0 scale) in all graduate work attempted (or other appropriate evidence of scholarly aptitude necessary for doctoral study).
3. International Students who have not earned a degree at an institution of higher education in the United States must also submit the results of the TOEFL Examination.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Submit three (3) letters of recommendation from persons well acquainted with the applicant's academic and/or professional performance.
6. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.
7. Complete a writing sample. For more information, please visit the Ed.D. Curriculum Studies program's website. (<https://coe.georgiasouthern.edu/cs/>)
8. Complete an interview, if requested.

Applicants' credentials will be evaluated by the Ed.D. in Curriculum Studies Admissions Committee in order to identify the candidates in that applicant pool to recommend for admission; admission is competitive. The number of applicants accepted each year will be dependent upon available resources. Applications will be evaluated once per year for Summer admissions. Students seeking a certificate upgrade must identify a concentration (i.e., certification field) on the Ed.D. admission application.

Some students might enter the program carrying course work beyond the master's degree. Once admitted and a Candidacy Committee Chair is identified, up to 9 credit hours of applicable and appropriate post-master's

work may apply toward degree requirements with the approval of the student's Candidacy Committee Chair.

Enrollment

Continuous enrollment in dissertation phase is required.

Time Limit

Doctoral students must pass the Candidacy Exam within five years from the first Ed.D. admission registration term and no later than the last semester of Ed.D. course work or the following semester. All degree requirements must be completed within five (5) years of passing the Candidacy Exam. After successful completion of the Candidacy Exam, students have five years to finish program requirements, including the Dissertation; otherwise, the Candidacy Exam must be retaken.

Areas of Study

This degree program consists of work in five areas:

1. Curriculum Studies Foundations,
2. Research and Inquiry,
3. Curriculum and Pedagogy Courses,
4. Emphasis Area, and
5. Dissertation.

The first two areas require a combined minimum of 39 credit hours of course work, the third area requires a minimum of 9 credit hours of course work, the fourth area requires a minimum of 12 credit hours, and the fifth area requires a minimum of 6 credit hours. The complete program requires a minimum of 60 credit hours of course work plus a minimum of 6 credit hours of dissertation.

Students may opt-out of the Ed.D Curriculum Studies program and instead receive an Educational Specialist's (Ed.S.) Degree in Curriculum Studies upon completion of all 60 credit hours of required Ed.D. coursework and satisfaction of the Candidacy Exam. Please contact the program director for more information. ¹

Curriculum Studies Foundations

This is the nexus of the program. As such, it contains courses to be taken by all doctoral students. The Core intertwines the theoretical, ethical, and historical concepts underpinning curriculum work with advanced theories of design, development, and implementation.

Research and Inquiry

This portion of the program is designed to create scholars who might apply their knowledge base to the solving of problems encountered in daily education work. Both components of the Research and Inquiry Core are understood to be essential in the preparation of doctoral students who will engage in meaningful, productive investigations into critical issues in curriculum. The Research component provides for advanced study into specific methodologies and their appropriate applications. The Inquiry component addresses theoretical questions of orientation of various research paradigms so that the doctoral student might make an informed decision as to the general approach (i.e., quantitative or qualitative) he/she will wish to pursue in order to effectively address a topic or problem in curriculum.

Curriculum and Pedagogy Courses

This praxis-oriented segment of the program of study provides opportunities for students to apply curriculum theory in their professional work environments. Curriculum and pedagogy courses satisfy the

advanced pedagogy requirement for students seeking a certificate upgrade.

Emphasis Areas

This program offers three interdisciplinary emphasis areas covering a broad terrain of scholarly inquiry and educational application.

1. Cultural Curriculum Studies

This emphasis area provides intensive exposure to critical aspects of the Curriculum Studies field. It also centers on the study of popular culture in its many manifestations and the implications of the ways in which the study of these educational sites impact the social construction of identity and the intersections of popular culture on pedagogy and curriculum theory.

2. Learning, Development, and Curriculum

This emphasis area meets the needs of many practicing professionals including curriculum directors, staff development personnel, instructional coordinators, high school department chairs, and lead teachers as well as others in teaching or administrative positions at the P-12 level or in higher education.

3. Multicultural and Social Justice Education

This emphasis area reflects the growing importance of addressing issues of culture, diversity, and social justice at all levels of education. The emphasis area allows examination of the needs of culturally diverse groups, the relationship between culture and academic achievement, and processes and mechanisms for realizing social justice aims within formal and informal educational environments.

Grade Average

To be eligible for graduation, a student must maintain a cumulative 3.25 grade point average. A student will be excluded from the program upon earning grades of "C" or below in two or more courses.

Program of Study

NOTE: All electives must be approved by committee chair.

	Credit Hours
Curriculum Studies Foundations	21
EDUC 8130 Curriculum Theories and Design	
EDUC 9130 Contemporary Curriculum Theorists	
EDUC 9230 Power and Schooling	
EDUC 9631 Advanced Seminar in Curriculum Theory	
EDUF 8831 Philosophies of Education	
EDUF 9131 Ethical Dimensions of Education	
EDUF 9132 History of American Curriculum	
Research and Inquiry	18
EDUC 9232 Forms of Curriculum Inquiry	
EDUC 9630 Doctoral Writing Seminar I	
EDUC 9632 Doctoral Writing Seminar II	
EDUF 9133 Theories of Educational Inquiry	
EDUR 8131 Educational Statistics I	
or EDUR 9231 Qualitative Research in Education	
Note: EDUR 7130 Educational Research is a prerequisite for EDUR 9231 and EDUR 8131	
EDUR 9232 Advanced Qualitative Research	
or EDUR 8132 Educational Statistics II	
Curriculum and Pedagogy Courses	2

ITEC 8630 Advanced Seminar in Instructional Technology ³	
Select two of the following options:	6
EDUC 8105 Hip Hop Pedagogy ³	
EDUC 8605 Critical Media Literacy ³	
EDUC 9131 Inquiry and Development of Educational Practices ³	
EDUC 9233 Advanced Critical Pedagogy	
Emphasis Area	
Select one of the following Emphasis Areas:	12
Cultural Curriculum Studies	
EDUC 9130 Contemporary Curriculum Theorists	
EDUC 9132 Critical Reading in Curriculum	
EDUF 9631 Seminar in Cultural Studies	
Elective- Select 3 credit hours of graduate-level electives (8000 or above) in the following subjects: EDUC, EDUF, EDUR, ITEC, or READ	
Learning, Development, and Curriculum	
Required:	
EDUF 8130 Advanced Study of Learning Theories and Applications	
Select two of the following options (select three of the following if EDUF 8130 or equivalent was previously satisfied):	
EDUC 8230 Curriculum Design and Evaluation	
EDUF 8131 Theories of Adolescence	
EDUF 8133 Interaction and Learning	
EDUF 8134 Models of Motivation	
EDUF 8135 Thinking and Problem Solving	
EDUF 8136 Theories of Human Development	
Elective- Select 3 credit hours of graduate-level electives (8000 or above) in the following subjects: EDUC, EDUF, EDUR, ITEC, or READ	
Multicultural and Social Justice Education	
Required:	
EDUF 8631 Foundations for Social Justice Education	
Select three of the following:	
EDUC 9130 Contemporary Curriculum Theorists	
EDUC 9132 Critical Reading in Curriculum	
EDUF 7230 Understanding Diverse Students through Case Study	
READ 8530 Critical Issues in Literacy Education with Diverse Populations	
Following completion of all coursework in the Ed.D. Program and Candidacy Exam, students may opt out of the Ed.D. degree at this time and instead receive the Ed.S. Curriculum Studies Degree. Please consult the program director for more information. ¹	
Dissertation	6-18
EDUC 9999 Dissertation (minimum of 6 variable credit hours)	
Total Credit Hours	66-78

¹ Students who opt out of the Doctorate of Education (Ed.D.) and are conferred the Educational Specialist (Ed.S.) degree may not also earn the Ed.D. degree through this program.

- ² Candidates are eligible for a certificate upgrade in any Georgia Professional Standards Commission approved certification area. Students seeking a certificate upgrade must identify a concentration (i.e., certification field) during the Ed.D. admission process in order for the concentration to appear on their transcript.
- ³ Students must apply coursework to their certification field.

Other Program Requirements

- Must successfully complete assessments identified at each program transition point.
 - Key Assessments are conducted at the end of EDUC 9230, Candidacy Exam, Prospectus and Dissertation Defense.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Reading Education (K-12) Ed.S. (Online)

Degree Requirements: 33 Credit Hours

Certificate upgrade information: The educator who holds a level five certificate in Reading, Middle Grades Reading, Early Childhood Education, or Special Education with a cognitive area in Reading will qualify for a level six certificate upgrade upon successful completion of all program requirements.

Admission Requirements

Regular

1. Complete requirements for a master's degree from a regionally accredited institution.
2. Possess or be eligible for a Georgia level five certificate in an eligible concentration area, or possess an equivalent out-of-state teaching certificate in the concentration area. Candidates who have completed all requirements for the Georgia level five teaching certificate have until the end of the first semester to obtain certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Present a 3.25 or higher GPA on all graduate work attempted.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work

after admission and meet any other stipulations outlined by the department to be converted to regular status.

Prerequisite Coursework

		Credit Hours
EDUF 7130	Learning Theories and Applications	3
EDUR 7130	Educational Research	3

Program of Study

		Credit Hours
Core Requirements		18
EDUR 8131	Educational Statistics I	
EDUR 8231	Applied Qualitative Research Methods	
ITEC 8231	Transforming Learning with Technology	
READ 8430	Current Research in Trends and Issues in Literacy Education ¹	
READ 8431	Literacy Leaders in Today's Schools	
READ 8530	Critical Issues in Literacy Education with Diverse Populations	
Content Specific Requirements ³		9
EDUR 8434	Field-Based Educational Research ⁴	
ESED 8132	Curriculum and Instruction ²	
READ 8839	Field Project in Reading ⁵	
Restricted Electives		6
Select 6 credit hours from the following:		
READ 7630	Teaching the Literature of Social Reflection	
READ 8130	Linking Literacy Assessment with Instruction II (field experience required)	
READ 8230	Organization and Supervision of Reading Programs	
READ 8630	Critical Readings in Reading/Literacy Education	
TCLD 6233	Applied Linguistics for ESOL/TCLD	
Total Credit Hours		33

- ¹ Must be taken during the first nine (9) credits; Prerequisite(s): Admission into the Ed.S. in Reading Education.
- ² Prerequisite(s): Current Research in Trends and Issues in Literacy Education (READ 8430) or concurrently enrolled.
- ³ Ed.S. candidates must complete the Content Specific Requirements in Reading Education.
- ⁴ Prerequisite(s): Educational Statistics I (EDUR 8131) Applied Qualitative Research Methods (EDUR 8231), Current Research in Trends and Issues in Literacy Education (READ 8430), Curriculum and Instruction (ESED 8132), Transforming Learning with Technology (ITEC 8231)
- ⁵ Prerequisite(s): Educational Statistics I (EDUR 8131) (Applied Qualitative Research Methods (EDUR 8231), Field-Based Educational Research (EDUR 8434), Current Research in Trends and Issues in Literacy Education (READ 8430), Literacy Leaders in Today's Schools (READ 8431), Curriculum and Instruction (ESED 8132), Transforming Learning with Technology (ITEC 8231)

Other Program Requirements

- Successful completion of the Ed.S. Comprehensive Exit Assessment; involves constituting a three faculty advisory committee to guide field study, and requires the completion and oral presentation of a major field-based action research paper.

- Must successfully complete assessments identified at each program transition point.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your My PSC Account during your first term of enrollment (see information under My PSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Evaluation, Assessment, Research, and Learning M.Ed. (Online)

Degree Requirements: 36 Credit Hours

Admission Requirements

1. Complete requirements for a bachelor's degree from a regionally accredited institution. This program is a non-certification program and does not lead to a certificate upgrade.
2. Present a cumulative 3.0 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
3. Submit a personal statement of purpose, between 500 and 1000 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.

Program of Study

	Credit Hours
Core Requirements	6
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
Specific Program Requirements	24
EDUR 8131 Educational Statistics I	
EDUR 8132 Educational Statistics II	
EDUR 8231 Applied Qualitative Research Methods	
EDUR 8331 Applied Measurement	
ITEC 8435 Program Evaluation	
EDUR 8530 Introduction to Mixed Methods Research	
Choose two of the following courses:	
EDUF 8131 Theories of Adolescence	
EDUF 8133 Interaction and Learning	
EDUF 8134 Models of Motivation	
EDUF 8135 Thinking and Problem Solving	
EDUF 8136 Theories of Human Development	

Electives

6

Select 6 credit hours of graduate-level electives (7000 or above) in the following subjects: EDLD, EDUC, EDUF, EDUR, or ITEC

Total Credit Hours

36

Additional Program Requirement

Successfully complete assessments identified at each program transition point.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Reading Education M.Ed. (Online)

Degree Requirements: 36 Credit Hours

Certificate Upgrade Information: The educator will qualify for a level 5 Georgia certificate upgrade with a new Field program upon successful completion of all program requirements, achieving a passing score on the required GACE Content Assessments for Reading, and applying for and successfully adding the Reading Education Program to the educator's GaPSC certificate.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Possess or be eligible for a Georgia level four or higher Induction, Professional, Advanced Professional, or Lead Professional teaching certificate in an eligible concentration area, or possess an equivalent out-of-state teaching certificate in the concentration area. Candidates who have completed all requirements for the Georgia level four teaching certificate have until the end of the first semester to obtain certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credit hours of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

	Credit Hours
Professional Education Core Requirements	6
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
Specific Requirements	24
READ 7131 Approaches to Literacy Instruction	
READ 7132 Linking Literacy Assessment with Instruction (field experience required)	
READ 7230 Issues and Trends in Literacy	
READ 7330 Literacy in the Content Areas	
READ 7431 Digital Literacies in the 21st Century	
READ 7432 Teaching Literacy with English Learners (field experience required)	
READ 7433 Teaching Writers Through Reading	
READ 8734 Capstone in Literacy Instruction (field experience required)	
Restricted Electives	3
Select 3 credit hours from the following:	
EDUC 8130 Curriculum Theories and Design	
ELEM 7232 Children's Literature	
ITEC 8231 Transforming Learning with Technology	
MSED 7331 Early Adolescent Literature	
READ 7630 Teaching the Literature of Social Reflection	
READ 8130 Linking Literacy Assessment with Instruction II (field experience required)	
READ 8530 Critical Issues in Literacy Education with Diverse Populations	
SPED 7136 Language Development	
WRIT 7620 Writing Project	
Free Elective	
Select 3 credit hours of Free Elective	3
Total Credit Hours	36

Other Program Requirements

- Must successfully complete assessments identified at each program transition point including the Literacy Exit Experience.
- All students in the M.Ed. program must pass the GACE to obtain initial certification in Reading Education.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Applied Research and Evaluation Certificate Program (Online)

Degree Requirements: 15 Credit Hours

Program Description

The Applied Research and Evaluation Certificate program consists of five 3-credit hour graduate-level courses in the College of Education, all of which will be delivered online. This certificate offers students the opportunity to develop fundamental research strategies and apply this knowledge in various situations. Courses in the program provide students with hands-on experience collecting and analyzing data, interpreting data, and preparing findings for research reports. These skills will be useful for individuals seeking or employed in a professional position where evaluation and assessment are required to monitor and maintain high quality services.

This graduate certificate can be completed as a stand-alone program or in conjunction with a complementary master's degree. Example academic disciplines where a master's degree may be heightened by an Applied Research and Evaluation certificate include psychology, sociology, mental health, criminology, public health, or education.

Admission Requirements

1. Complete requirements for a Bachelor's degree from a regionally accredited institution.
2. Present a cumulative 3.0 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
3. Submit a personal statement of purpose, approximately 500 words, that identifies the applicant's reasons for pursuing certificate program.

Program of Study

	Credit Hours
Certificate Requirements	15
EDUR 7130 Educational Research	
EDUR 8131 Educational Statistics I	
EDUR 8231 Applied Qualitative Research Methods	
EDUR 8331 Applied Measurement	
ITEC 8435 Program Evaluation	
Total Credit Hours	15

Students who complete this certificate in good standing (cumulative grade point average of at least 3.0) may apply to the online M.Ed. program in Evaluation, Assessment, Research, and Learning. Successful applicants will receive credit for certificate coursework (15 hours) toward the M.Ed. degree if the Applied Research and Evaluation certificate has been completed within the last 3 years. The M.Ed. requires a total of 36 hours with advanced coursework in evaluation, assessment, research, and learning.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Curriculum and Pedagogy for Social Justice Certificate (Online)

Degree Requirements: 18 Credit Hours

Program Description

The Curriculum and Pedagogy for Social Justice Certificate consists of six graduate level education courses designed to provide educators with the theoretical foundations, historical knowledge, practical experience, and supportive infrastructure needed to become reflective practitioners who successfully integrate social justice education into their classrooms. This graduate certificate can be completed as a stand-alone program or along with any of the master's degrees offered in the College of Education. An underlying assumption of this graduate certificate is that educators who engage in social justice education will be able to identify dehumanizing sociopolitical conditions that undermine good teaching and academic achievement and will actively engage in pedagogical practices to alter those conditions to educate all students to reach their highest potential.

Admission Requirements

1. Complete requirements for a bachelor's degree from a regionally accredited institution or an equivalent at a recognized national or international university.
2. Present a cumulative 3.0 (4.0 scale) grade point average or higher on all undergraduate and/or graduate coursework.
3. Submit a personal statement of purpose, not to exceed 500 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.

Program of Study

The Graduate Certificate program requires a total of 18 credit hours. There are five required courses and one elective course. All of the courses are online. The courses are rotated on a three-semester cohort model that begins in the Summer and ends with two capstone courses in the Spring.

	Credit Hours
Required Courses	15
EDUC 8230 Curriculum Design and Evaluation	
EDUC 8632 Curriculum and Pedagogy for Social Justice	
EDUC 8633 Social Justice Inquiry	
EDUF 7235 Multicultural Education	
EDUF 8631 Foundations for Social Justice Education	
Elective	3
Choose one of the following:	
EDUF 7230 Understanding Diverse Students through Case Study	
READ 8530 Critical Issues in Literacy Education with Diverse Populations	
Total Credit Hours	18

Course Rotation

Summer

Required

EDUF 7235 Multicultural Education (3)

EDUC 8230 Curriculum Design and Evaluation (3)

Fall

Required

EDUF 8631 Foundations for Social Justice Education (3)

Elective

READ 8530 Critical Issues in Literacy Education with Diverse Populations (3) *or*

EDUF 7230 Understanding Diverse Students through Case Study (3)

Spring

Required

EDUC 8632 Curriculum and Pedagogy for Social Justice (3) (*Capstone Experience*)

EDUC 8633 Social Justice Inquiry (3) (*Capstone Experience*)

After earning the certificate, students who complete this non-degree program in good standing (cumulative grade point average of at least 3.0) may wish to apply to the following related degree or certificate programs:

- Teaching Culturally and Linguistically Diverse Students Certificate Program
- Curriculum Studies, Ed.D.
- Educational Leadership Ed.D.
- Master of Arts in Teaching M.A.T.
- Master of Education M.Ed.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Reading Endorsement: Classroom Teacher of Reading Program (Online)

Degree Requirements: 9 Credit Hours

Purpose

Prepares individuals to teach reading at the grade levels of their certification.

Requirements

1. Hold a bachelor's degree from a regionally accredited institution.
2. Possess a valid, level four or higher Induction, Professional, Advanced Professional, or Lead Professional teaching certificate.
3. Complete 9 credit hours of prescribed course work.
4. Successfully complete all program key assessments.

Program of Study

Course Requirements			Credit Hours
READ	7131	Approaches to Literacy Instruction	9
READ	7132	Linking Literacy Assessment with Instruction	
READ	7330	Literacy in the Content Areas	
Total Credit Hours			9

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Urban Education Graduate Endorsement (Online)

Endorsement Requirements: 9 Credit Hours

Program Description: The Urban Education endorsement program is fully online and consists of three courses (cross listed at the undergraduate and graduate levels) that provide candidates with: (1) exposure to foundational and emergent scholarship in culturally relevant and culturally sustaining pedagogies; (2) field experiences engaging with youth and families within urban community contexts; and (3) experiences in designing curriculum for culturally and linguistically diverse learners in urban settings. Successful completers of this endorsement will be able to employ multi-faceted understandings of urban educational contexts and principles of culturally relevant and culturally sustaining pedagogies to identify and leverage informal and formal educational resources within urban schools and communities to empower learners.

Admission Requirements

1. Complete requirements for a bachelor's degree from a regionally accredited institution
2. Possess or be eligible for a renewable Georgia level 4 teaching certificate or possess an equivalent out-of-state teaching certificate. Candidates who have completed all requirements for the Georgia level 4 teaching certificate have until the end of the first semester to obtain certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Other Program Requirements

Urban Education Endorsement courses must be taken in sequence with candidates earning a "C" or better to continue in the program.

Program of Study

Course Requirements			Credit Hours
EDUF	5201G	Understanding the Context of Urban Education	9
EDUF	5202G	Culturally Relevant Curriculum and Pedagogy in Urban Schools	
EDUF	5203G	The City as Curriculum: Partnerships and Community Engagement in Urban Schools	
Total Credit Hours			9

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Department of Elementary and Special Education

The Department of Elementary and Special Education at Georgia Southern University offers undergraduate degree programs that lead to initial teacher certification in the areas of birth through kindergarten (B-K), elementary education (P-5), special education (P-12), and elementary education and special education combined (P-5). All three areas also offer non-certification tracks that provide students interested in education the opportunity to take coursework with planned minors and concentrations. At the graduate level, the department offers initial certification Master of Arts in Teaching (M.A.T.) degrees in elementary education (P-5) and special education (P-12), Master of Education (M.Ed.) degrees in elementary education (P-5) and special education (P-12), with concentrations in either general or adaptive curriculum, a Teaching and Learning Education Specialist (Ed.S) degree with concentrations in elementary education (P-5) and special education (P-12), Endorsements in autism, and positive behavior intervention support. The department also offers an M.Ed. in Curriculum and Instruction that is part of a USG collaborative with Valdosta State and Columbus State Universities. Many graduate programs offered by the department are 100% online. All programs are based upon the concept of developmentally appropriate practices and value diverse, intensive field experiences in a range of grade levels and school settings.

Programs

Education Specialist

- Elementary Education (Grades P-5) Ed.S. (Online) (p. 109)
- Special Education (Grades P-12) Ed.S. (Online) (p. 111)

Master's

- Curriculum and Instruction - Accomplished Teaching M.Ed. (Online) (p. 108)

- Elementary Education (Grades P-5) M.Ed. (Online) (p. 110)
- Special Education (Grades P-12) M.Ed. (Online) (p. 112)
- Teaching M.A.T. (Concentration in Elementary Education P-5) (Online) (p. 113)
- Teaching M.A.T. (Concentration in Special Education P-12) (Online) (p. 114)

Endorsements

- Autism Endorsement (Online) (p. 108)
- Positive Behavior Intervention and Supports Endorsement (Online) (p. 111)

Autism Endorsement (Online)

Program Requirements: 9 Credit Hours

Program Purpose

The Autism Endorsement program develops highly skilled special education autism certified teachers who can demonstrate and explicitly explain:

- how to plan systematic instruction based on learner characteristics, interests, and ongoing assessment;
- specialized instruction to enhance social participation across environments to include formal and informal social interactions;
- how to plan instruction for independent functional life skills and adaptive behavior;
- how to plan and implement instruction and related services – with enhanced knowledge of assistive technology - for individuals with autism spectrum disorders that is both age-appropriate and ability-appropriate;
- specialized curriculum designed to meet the needs of individuals with autism spectrum disorders;
- how to involve individuals with autism spectrum disorders in the transition planning process; and
- how to plan instruction for independent functional life skills and adaptive behavior.

Admission Requirements

1. Complete requirements for a bachelor's degree from a regionally accredited institution
2. Present a 2.5 or higher GPA on all undergraduate and graduate work combined.
3. Possess a renewable Georgia level four induction certificate or higher in any teaching field.
4. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Program of Study

Total Credit Hours		Credit Hours
SPED 8531	Nature and Needs of Students with Autism	9
SPED 8532	Implementing Evidence Based Practices in Teaching Students with Autism Spectrum Disorder	

SPED 8533	Assessment and Procedures for Students with Autism Spectrum Disorder	9
Total Credit Hours		

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Curriculum and Instruction - Accomplished Teaching M.Ed. (Online)

Degree Requirements: 36 Credit Hours

(Collaborative Degree with Valdosta State University and Columbus State University)

Certificate Upgrade Information: This program adds the new field of Curriculum and Instruction to a Professional certificate. This is an advanced professional program which can only be added to a level four or higher renewable Professional certificate in any field. The educator can apply and be admitted to the program with an Induction certificate; however, in order to add the new field and receive a certificate upgrade, the candidate must hold a level four or higher renewable Professional certificate.

The educator who is in possession of a level four or higher renewable Professional certificate will qualify for a level 5 Georgia certificate upgrade with a new Field program upon successful completion of all program requirements, achieving a passing score on the required GACE Content Assessments for Curriculum and Instruction, and applying for and successfully adding Curriculum and Instruction to the educator's GaPSC certificate.

This program is approved by the Georgia Professional Standards Commission as a program leading to certification in Curriculum and Instruction. Completing the program will prepare candidates for certification, but candidates should consult with program faculty, the College of Education Graduate Academic Services Center, or the Georgia Professional Standards commission regarding current certification rules upon entering the program.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from an accredited institution.
2. Possess a valid, level four or higher Induction, Professional, Advanced Professional, or Lead Professional teaching certificate, leadership certificate, service field certificate, or Life certificate.
3. Present a 2.75 or higher GPA on all undergraduate and graduate work combined.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of “B” or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status. Candidates with a GPA below 2.6 will not be considered for admission.

Program of Study

			Credit Hours
Professional Education Core			9
EDAT 6159	Multicultural Studies across the Curriculum ¹		
EDAT 7100	Research Methodology in Education		
EDAT 7133	Trends, Issues, & Research in Education ³		
Content-Specific Requirement⁴			12
EDAT 6001	Using Assessment to Improve Teaching and Learning ²		
EDAT 6226	Curriculum Design for Student Achievement ¹		
EDAT 7131	Enhancing Student Performance ³		
EDAT 7132	Framework for Teaching ³		
Specific Program Requirements			6
EDAT 6000	Professional Decision Making ²		
EDAT 6115	Knowledge of Students and Their Learning ¹		
Approved Electives			
Select 9 credit hours of Approved Electives			9
Total Credit Hours			36

- ¹ Taught by Columbus State University
- ² Taught by Valdosta State University
- ³ Taught by Georgia Southern University
- ⁴ Candidates must complete the Content-Specific Requirements in their area of certification/content field.

Culminating Project: Electronic Portfolio

Program Exit Experience

- Successful completion of electronic portfolio.
- Successful completion of each key assessment identified at each program transition point.

Other Program Requirements

- The candidate’s progress will be evaluated after the first 9 credits of course work, including the GPA and performance on the key assessments embedded in the courses, including dispositions.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more

information visit the Graduate Academic Advisement (p. 35) catalog page.

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Elementary Education (Grades P-5) Ed.S. (Online)

Degree Requirements: 33 Credit Hours

Certificate Upgrade Information: An educator who holds a level five Georgia certificate in Elementary Education will qualify for a level six certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification).

Admission Requirements

Regular

1. Complete requirements for a master’s degree from a regionally accredited institution.
2. Possess or be eligible for a Georgia level five teaching certificate in Elementary Education or possess an equivalent out-of-state teaching certificate in Elementary Education. Candidates who have completed all requirements for the Georgia level five teaching certificate have until the end of the first semester to obtain certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Present a 3.25 or higher GPA on all graduate work attempted.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant’s reasons for pursuing graduate study and how admission into the program relates to the applicant’s professional aspirations.
5. Submit a completed “Disclosure and Affirmation Form” that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of “B” or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Prerequisites

			Credit Hours
Prerequisite Coursework			
EDUF 7130	Learning Theories and Applications		3
EDUR 7130	Educational Research		3
or EDUR 7140	Action Research in Elementary Settings		

Program of Study

			Credit Hours
Core Requirements			12
EDUR 8131	Educational Statistics I		
EDUR 8231	Applied Qualitative Research Methods		
or EDUR 8331	Applied Measurement		

ESED 8131	Teacher Leadership	
ESED 8330	Teaching and Learning in Diverse P-12 Contexts	
Content Specific Requirements ¹		9
ESED 8130	Research on Current Trends and Issues ²	
ESED 8132	Curriculum and Instruction ³	
ESED 8839	Problem of Practice	
Electives		12
Select 12 credit hours of graduate-level electives (5000G or above) in the following subjects: EDUC, EDUF, EDUR, ELEM, ESED, ITEC, MGED, MSED, READ, SPED, or TCLD		
Total Credit Hours		33

- ¹ Ed.S. candidates must complete the Content Specific Requirements in Concentration Areas Research on Current Trends and Issues (ESED 8130), Curriculum and Instruction (ESED 8132), and Problem of Practice (ESED 8839).
- ² ESED 8130 Research on Current Trends and Issues must be taken before ESED 8132 Curriculum and Instruction
- ³ ESED 8132 Curriculum and Instruction must be taken semester before ESED 8839 Problem of Practice

Other Program Requirements

- Must successfully complete assessments identified at each program transition point.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment(see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

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Elementary Education (Grades P-5) M.Ed. (Online)

Degree Requirements: 36 Credit Hours

Certificate Upgrade Information: An educator who holds a level four Georgia certificate in Elementary Education will qualify for a level five certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification).

Admission Requirements

1. Complete requirements for a bachelor’s degree from a regionally accredited institution.
2. Possess or be eligible for a renewable Georgia level four certificate in Elementary Education, or possess an equivalent out-of-state teaching certificate in Elementary Education. Candidates who have completed

- all requirements for the Georgia level four teaching certificate have until the end of the first semester to obtain the certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
 4. Submit a personal statement of purpose, not to exceed 500 words, that identifies the applicant’s reasons for pursuing graduate study and how admission into the program relates to the applicant’s professional aspirations.
 5. Submit a completed “Disclosure and Affirmation Form” that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of “B” or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

	Credit Hours
Professional Education Core Requirements	9
EDUF 7150 Learning Theories and Assessment	
EDUR 7140 Action Research in Elementary Settings	
ITEC 8231 Transforming Learning with Technology	
Specialized Content for Teaching	18
(Professional Education Prerequisites)	
ELEM 7230 Advanced Language Arts Methods	
ELEM 7233 Teaching Writing in the Elementary School	
ELEM 7234 Teaching Communication Across Cultures	
ELEM 7330 Advanced Mathematics Methods	
ELEM 7430 Advanced Science Methods	
ELEM 7530 Advanced Social Studies Methods	
Electives toward endorsement or certificate (Complete the 9 hours to earn one of the listed endorsements or complete 9 hours toward the Curriculum & Pedagogy for Social Justice Certificate) ¹	9
Total Credit Hours	36

¹ **Endorsements or Certificate Electives:**
English for Speakers of Other Languages (ESOL) Endorsement: Applied Linguistics for ESOL/TCLD (TCLD 6233), Cultural Diversity and ESOL/TCLD (TCLD 6231), and Methods for Teaching ESOL/TCLD (TCLD 6235);
Online Teaching and Learning Endorsement: Theories and Models of Instructional Design (ITEC 8134), Pedagogy of Online Learning (ITEC 8135), and Field Experience in Online Teaching and Learning (ITEC 8136).
Reading Endorsement: Approaches to Literacy Instruction (READ 7131), Linking Literacy Assessment with Instruction (READ 7132), and Literacy in the Content Areas (READ 7330).
Curriculum and Pedagogy for Social Justice Certificate: Foundations for Social Justice Education (EDUF 8631), Multicultural Education (EDUF 7235), Curriculum Design and Evaluation (EDUC 8230), Curriculum and Pedagogy for Social Justice (EDUC 8632), Social Justice Inquiry (EDUC 8633), and either Critical Issues in Literacy Education with Diverse Populations (READ 8530) or Understanding Diverse Students through Case Study (EDUF 7230).
Gifted In-Field Graduate Endorsement: Nature and Needs of Gifted and Talented Learners (ESED 5130G)Curriculum for Gifted and Talented Learners (ESED 5131G)Methods for Teaching Gifted and Talented Learners (ESED 5132G)Assessment and Procedures for Teaching Gifted and Talented Learners (EDUF 5133G)

Other Program Requirements

- Successfully complete assessments identified at each program transition point.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

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 Email: gradschool@georgiasouthern.edu

Positive Behavior Intervention and Supports Endorsement (Online)

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from an accredited institution.
2. Possess a valid, level four or higher Induction, Professional, Advanced Professional, or Lead Professional teaching certificate, leadership certificate, service field certificate, or Life certificate.
3. Present a 2.75 or higher GPA on all undergraduate and graduate work combined.
4. GRE or MAT scores will not be required for applicants who hold a clear renewable certification in a teaching, service, or leadership field; instead the applicants must submit passing GACE or PRAXIS scores.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher through all course work after admission and meet any other stipulations outlined by the department.

Program of Study

Course Requirements		Credit Hours
PBIS 8130	Administration in Positive Behavior Interventions and Supports	9
PBIS 8131	Critical Issues in Positive Behavior and Supports	
PBIS 8839	Data Methods in Positive Behavior Intervention and Support	
Total Credit Hours		9

Advisement

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 Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Special Education (Grades P-12) Ed.S. (Online)

Degree Requirements: 33 Credit Hours

Concentrations

Candidates must select one area of concentration from the areas in which they are currently certified: Adaptive Curriculum or General Curriculum.

Certificate Upgrade Information: An educator who holds a level five Georgia certificate in Special Education Adaptive Curriculum or General Curriculum will qualify for a level six certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification.)

Admission Requirements

Regular

1. Complete requirements for a master's degree from a regionally accredited institution.
2. Possess or be eligible for a Georgia level five certificate in Special Education or possess an equivalent out-of-state teaching certificate in Special Education. Certification must be in one of the concentration areas: Adaptive Curriculum or General Curriculum. Candidates who have completed all requirements for the Georgia level five teaching certificate have until the end of the first semester to obtain certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Present a 3.25 or higher GPA on all graduate work attempted.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and

how admission into the program relates to the applicant's professional aspirations.

- Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Prerequisite Coursework

	Credit Hours
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
or EDUR 7140 Action Research in Elementary Settings	

Program of Study

	Credit Hours
Core Requirements	12
EDUR 8131 Educational Statistics I	
EDUR 8231 Applied Qualitative Research Methods	
or EDUR 8331 Applied Measurement	
ESED 8131 Teacher Leadership	
ESED 8330 Teaching and Learning in Diverse P-12 Contexts	
Content Specific Requirements ¹	9
ESED 8130 Research on Current Trends and Issues ²	
ESED 8132 Curriculum and Instruction ³	
ESED 8839 Problem of Practice	
Electives	12
Select 12 credit hours of graduate-level electives (5000G or above) in the following subjects: EDUC, EDUF, EDUR, ELEM, ESED, ITEC, MGED, MSED, READ, SPED, or TCLD	
Total Credit Hours	33

¹ Ed.S. candidates must complete the Content Specific Requirements in Concentration Areas Research on Current Trends and Issues (ESED 8130), Curriculum and Instruction (ESED 8132), and Problem of Practice (ESED 8839).

² ESED 8130 Research on Current Trends and Issues must be taken before ESED 8132 Curriculum and Instruction

³ ESED 8132 Curriculum and Instruction must be taken semester before ESED 8839 Problem of Practice

Other Program Requirements

- Must successfully complete assessments identified at each program transition point.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

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Email: gradschool@georgiasouthern.edu

Special Education (Grades P-12) M.Ed. (Online)

Degree Requirements: 36 Credit Hours

Concentrations

Candidates must select one area of concentration from the areas in which they are currently certified: Adaptive Curriculum or General Curriculum.

Certificate Upgrade Information: An educator who holds a level four Georgia certificate in Special Education Adaptive Curriculum or General Curriculum will qualify for a level five certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification.)

Admission Requirements

Regular Admission

- Complete requirements for a bachelor's degree from a regionally accredited institution.
- Possess or be eligible for a Georgia level four certificate or equivalent. Certification must be in Special Education: Adaptive Curriculum or Special Education: General Curriculum.
- Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
- Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
- Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study for Certification Areas

	Credit Hours
Core Requirements Completed by Candidates in Both Concentrations	15
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
SPED 7333 Special Education Leadership	
SPED 7411 Assistive Technology for Students with Disabilities	

SPED 7630	Seminar in Special Education	21
Concentration Area Courses		
Select one of the following Curriculum Areas in which one is currently certified: ¹		
Moderate-Severe Disabilities-Adaptive Curriculum		
SPED 7448	Augmentative and Alternative Communication for Students with Multiple/Severe Disabilities	
SPED 7634	Characteristics and Assessment of Low Incidence Populations	
SPED 7635	Methods for Low Incidence Populations	
SPED 8410	Career Development and Transition Planning	
Autism Endorsement ²		
Mild Disabilities - General Curriculum		
READ 7132	Linking Literacy Assessment with Instruction	
SPED 8531	Nature and Needs of Students with Autism	
SPED 7133	Collaboration Across the Life Span	
SPED 7334	Advanced Behavior Management	
SPED 7335	Instructional Approaches in Special Education	
Autism Endorsement ³		
or Reading Endorsement ⁴		
Total Credit Hours		36

¹ Concentration must be in a curriculum area in which one is currently certified: Adaptive Curriculum or General Curriculum.

² Nature and Needs of Students with Autism (SPED 8531), Implementing Evidence Based Practices in Teaching Students with Autism Spectrum Disorder (SPED 8532), and Assessment and Procedures for Students with Autism Spectrum Disorder (SPED 8533)

³ Implementing Evidence Based Practices in Teaching Students with Autism Spectrum Disorder (SPED 8532) and Assessment and Procedures for Students with Autism Spectrum Disorder (SPED 8533).

⁴ Approaches to Literacy Instruction (READ 7131) and Literacy in the Content Areas (READ 7330)

Other Program Requirements

- All new master's level candidates must schedule and meet with their assigned Special Education Advisor for a brief advisement orientation meeting prior to their first semester of course work in order to meet the registration requirements of the program.
- Candidates must take courses in sequenced order to meet Special Education Program Key Assessment criteria.
- Successfully complete assessments identified at each program transition point.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) (<https://>

catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/)catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Teaching M.A.T. (Concentration in Elementary Education P-5) (Online)

Degree Requirements: 45 Credit Hours

Program Intent and Admission Requirements:

The Master of Arts in Teaching (MAT) leads to initial teaching certification in Elementary Education (P-5) and a master's degree for those persons who hold a bachelor's degree from a regionally accredited institution.

The program of study is designed to meet all content and methods requirements for initial certification in 45 credit hours. Candidates are required to complete supervised field experiences in Georgia schools to meet certification requirements.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate coursework.
3. Submit passing scores on the GACE Program Admission Assessment or be exempt by acceptable SAT, ACT, or GRE or GACE Basic Skills scores.
4. Submit a passing score on the state-required Georgia Educator Ethics Assessment.
5. Qualify for a Georgia Pre-Service certificate or Provisional certificate (see Certification section in the Graduate Catalog).
6. Submit a letter of intent that identifies the applicant's reasons for pursuing graduate study and describes their commitment to explore, acknowledge, and appreciate the home and community culture of their future students, and explains their desire to learn strategies that integrate cultural experiences, values, and understanding into the P-5 teaching and learning environment.
7. One (1) Initial Disposition Assessment. Assessment to be completed by the applicant.
8. Acknowledge "Disclosure and Affirmation" statements that address the Code of Ethics for Educators and the need for tort liability insurance.
9. International applicants and U.S. citizens whose native language is not English must demonstrate competence in English. Applicants must take and pass the Test of English as a Foreign Language (TOEFL). The official TOEFL score may not be more than two years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus prior to admission to the program.

Program of Study

Credit Hours

Admission criteria to the Teacher Education Program (TEP), must be met for progression in Program of Study

Step One:	6
EDUF 7133 Instruction-Based Assessment	
ELEM 6130 Culturally Responsive Pedagogy & Classroom Management	
STEP Two:	9
EDUF 7132 Critical Approaches to Early Childhood Development and Learning and Practicum I	
ELEM 7332 Problem Solving and Mathematical Representations in the Elementary Classroom	
READ 6131 Literacy Instruction and Diagnosis	
STEP Three:	9
ELEM 6440 MAT Elementary Mathematics Methods	
ELEM 6700 Critical Pedagogy & Practicum II	
READ 6330 Literacy in the Content Areas for Elementary Learners	
Step Four:	6
SPED 6130 Introduction to Special Education	
ELEM 6250 Language Arts and Creative Activities	
Step Five:	9
Choose from:	
ELEM 6430 MAT Elementary Science Methods	
ELEM 6530 MAT Elementary Social Studies Methods	
ELEM 6733 MAT Internship I	
Step Six:	6
ELEM 6799 MAT Internship II (for candidates who are not teaching full time)	
ELEM 7799 Professional Internship (for candidates who are currently teaching full time on a Provisional Certificate)	
Upon successful completion of the required courses for certification, (Steps 1-6), successful completion of the GACE content assessment, and successful completion of the state-required Educator Ethics Assessment (if not completed for program admission), candidates may apply for a level 5 Induction Certificate.	
Total Credit Hours	45

- All new MAT candidates must attend an on-campus orientation meeting in order to meet registration requirements.
- Candidates must take courses in the sequenced order to meet Education Program Key Assessment criteria.
- EDUF 7235 Multicultural Education is a pre-approved alternative for ELEM MAT graduate-level courses for admitted students who have previously taken a program required course. This substitution would not be for transferred credits outside of Georgia Southern University.

Other Program Requirements

- Per the Georgia Professional Standards Commission Rule, candidates must earn a minimum grade of "B" in SPED 6130.
- Candidates must successfully complete key assessments at each program transition point.
- Candidates must successfully complete all field experiences.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more

information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Teaching M.A.T. (Concentration in Special Education P-12) (Online)

Degree Requirements: 45 Credit Hours

Program Intent and Admission Requirements:

The Master of Arts in Teaching (MAT) leads to initial teaching certification in Special Education General Curriculum (P-12) and a master's degree for those persons who hold a bachelor's degree in counseling, child and family development, English, mathematics, psychology, science, social science, or a closely-related field from a regionally accredited institution.

The total credit hours for the degree are dependent on previous course work completed in the area of certification. A transcript evaluation by the College of Education's Graduate Academic Services Center is required. Prerequisite content course work, based on the transcript evaluation, must be completed as a non-degree student before admission into the program.

This is a fully online program. Candidates are required to complete supervised field experiences in Georgia schools to meet certification requirements.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Present a transcript evaluation by the College of Education's Director of the Graduate Academic Services Center with completion of specified prerequisite content coursework for one or more content areas.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Present a total adjusted GPA of 2.75 or higher on all teaching field course work.
5. Submit passing scores on the GACE Program Admission Assessment or be exempt by acceptable SAT, ACT, or GRE scores.
6. Submit a passing score on the state-required Georgia Educator Ethics Assessment.
7. Qualify for a Georgia Pre-Service certificate or Provisional certificate (see Certification section in the Graduate Catalog)
8. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
9. Acknowledge "Disclosure and Affirmation" statements that address the Code of Ethics for Educators and the need for tort liability insurance.
10. International applicants and U.S. citizens whose native language is not English must demonstrate competence in English. Applicants must take and pass the Test of English as a Foreign Language (TOEFL).

The official TOEFL score may not be more than two years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus prior to admission to the program.

- If an applicant was previously enrolled in an initial teacher preparation program, an interview must be completed with the Program Coordinator prior to admission

Program of Study

	Credit Hours
Step One: The steps represent one way to progress through the program but other schedules are possible.	6
SPED 6130 Introduction to Special Education	
SPED 6231 Special Education Laws and Procedures	
(Georgia Pre-Service certificate must be obtained for progression to Step Two.)	
Step Two:	6
READ 7131 Approaches to Literacy Instruction	
SPED 7631 Perspectives on Mild Disabilities	
Step Three:	9
SPED 6230 Assessment and Procedures in Special Education	
SPED 7632 Methods for Mild Disabilities	
SPED 7736 Internship in SPED General Curriculum	
Step Four:	9
EDUF 7130 Learning Theories and Applications	
SPED 6330 Classroom Management	
SPED 6332 Remediation and Supports for Students with Disabilities in Mathematics	
Step Five:	6
Select one of the following:	
SPED 6766 Student Teaching: SPED	
SPED 7766 Internship in Special Education	
Step Six:	9
EDUR 7130 Educational Research	
SPED 7133 Collaboration Across the Life Span	
TCLD 6231 Cultural Diversity and ESOL/TCLD	
Total Credit Hours	45

- Upon successful completion of the required courses for certification, (Steps 1-5), successful completion of the GACE content assessment, and successful completion of the state-required Educator Ethics Assessment (if not completed for program admission), candidates who are teaching full time with a provisional certificate may apply for a level 4 Induction Certificate.
- Upon successful completion of Step 6 and all other program and certification requirements listed above, candidates may apply for a level 5 Induction Certificate.

Specific Program Requirements

- All new MAT candidates must schedule and meet with their assigned Special Education Advisor for a brief advisement orientation meeting prior to entering Step Two of the program in order to meet registration requirements.
- Candidates must take courses in sequenced order (steps one-six) to meet Special Education Program Key Assessment criteria. The need to repeat or skip a course may delay program completion.

- Candidates are required to complete 900 clinical hours to meet certification requirements. These clinical hours are included in the courses in this program of study.

Other Program Requirements

- Must successfully complete assessments identified at each program transition point.
- Must earn a minimum grade of "B" or higher in Introduction to Special Education (SPED 6130)

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Department of Leadership, Technology, and Human Development

The Department of Leadership, Technology, and Human Development offers a broad range of programs that provide school/system-wide and student-oriented support services for traditional and alternative settings. A diverse selection of graduate programs prepare school and community agency personnel in the areas of school and clinical mental health counseling, educational leadership, higher education administration, instructional technology, and school psychology. A doctoral degree program in educational leadership is also offered by this department. In addition to degree programs, the department offers certificate programs in educational leadership, instructional technology and school library media, and the teacher leader and the online teaching and learning endorsements. The department also houses the Instructional Design and Technology minor.

Programs

Doctoral

- Educational Leadership Ed.D. (p. 116)

Education Specialist

- Instructional Technology Ed.S. (Online) (p. 117)
- School Psychology Ed.S. (p. 118)

Master's

- Counselor Education M.Ed. (p. 119)
- Educational Leadership M.Ed.(Online) (p. 121)
- Higher Education Administration M.Ed. (Hybrid) (p. 121)
- Instructional Technology M.Ed. (Georgia ONmyLINE) (p. 122)

Certificates

- Educational Leadership Tier I Certificate Program (Online) (p. 124)
- Instructional Technology Certificate Program (Online) (p. 125)
- School Library Media Certificate Program (Online) (p. 125)

Endorsements

- Online Teaching and Learning Endorsement (Online) (p. 126)
- Teacher Leadership Endorsement (Online) (p. 127)

Educational Leadership Ed.D.

Degree Requirements: 39-69 Graduate Credit Hours beyond Master’s including Dissertation (60 Graduate Credit Hours of coursework, Plus Minimum of 9 Dissertation Credit Hours).

Admission Requirements

1. Select a concentration : Higher Education Leadership or P-12 Educational Leadership
2. Complete requirements for a master’s degree or higher from a regionally accredited institution.
 - Higher Education Leadership candidates:
 - i. For admission to Tier I, candidates must possess a master’s degree. For admission to Tier II, candidates must possess a terminal degree in a related field.
 - P-12 Educational Leadership candidates:
 - i. There is no admission into Tier I. For admission to Tier II, candidates must possess an Ed.S. degree in Educational Leadership or another related field and certification in Educational Leadership - Tier II.
3. Present a minimum grade point average of 3.25 (4.0 scale) in previous graduate work.
4. Present current official scores from the Graduate Record Examination (GRE).
5. Submit a current resume or CV that highlights the personal and professional achievements of the applicant.
6. Submit a personal statement of purpose, not to exceed 1000 words, that identifies the applicant’s reasons for pursuing graduate study and how admission into the program relates to the applicant’s professional aspirations.
7. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.
8. Complete a writing sample. For more information, please visit the program’s website.
9. Complete an interview. For more information, please visit the program’s website.

Enrollment

Continuous enrollment is required throughout Tier II coursework. A minimum of 9 credits of Dissertation (EDLD 9999) is required beyond other coursework.

Time Limit

Doctoral students admitted to Tier I must pass the Candidacy Exam within six years from the first Ed.D. admission registration term and no later than the last semester of Ed.D. coursework. Doctoral students admitted to Tier II must pass the Candidacy Exam within three years from the first Ed.D. admission registration term and no later than the last semester of Ed.D. coursework. Dissertation must be completed within five years of passing the Candidacy Exam. When extenuating circumstances exist, students may apply for an extension of the time requirement. If an extension is granted, degree requirements must be completed that are consistent with the conditions and terms specified in the time extension notification.

Grade Average

To be eligible for graduation, a student must maintain a cumulative 3.25 grade point average. A student will be excluded from the program upon earning grades of “C” or below in two or more courses.

Candidacy Examinations

A student must pass formal, comprehensive written and/or oral examinations before being admitted to candidacy for the degree. These examinations will be administered in accordance with policies in effect in the College of Graduate Studies and the candidate’s department. The results of the examination(s) will be reported to the College of Graduate Studies. If a student fails the candidacy examination for a second time, he/she will be removed from the program.

Doctoral Dissertation Paperwork

Upon successful completion of the Candidacy Exam, the student will confirm his/her committee with his/her committee chair. In conjunction with his or her Dissertation Chair, the student is responsible for submitting doctoral paperwork at each stage of the dissertation process.

Program of Study

	Credit Hours
Tier I Content Courses-P-12 Educational Leadership	30
1. ED.S. IN EDUCATIONAL LEADERSHIP/ ADMINISTRATION OR IN A FIELD OTHER THAN EDUCATIONAL LEADERSHIP, AND POSSESSION OF CERTIFICATION IN EDUCATIONAL LEADERSHIP - TIER II: EDUR 8131 (Educational Statistics) or equivalent must be completed during the first semester of Tier II if not previously satisfied.	
Tier I Content Courses - Higher Education Leadership	
Satisfaction of Tier I requirements for the P-12 Educational Leadership concentration and admission to Tier II may be met through the following pathway:	
1. TERMINAL DEGREE IN RELATED FIELD: EDUR 8131 (Educational Statistics) or equivalent must be completed during the first semester of Tier II if not previously satisfied.	
2. ADMITTED POST-MASTER’S DEGREE, WITHOUT TERMINAL DEGREE IN A RELATED FIELD: Completion of Tier I Higher Education Leadership program (30 graduate credits). This pathway will satisfy the requirements of Tier I but will NOT result in a degree being conferred. Candidates should follow the Tier 1 Program of Study as prescribed here:	
Research Core	
EDUR 8131	Educational Statistics I (Prerequisite to EDUR 8434)
EDUR 8434	Field-Based Educational Research (Prerequisite to EDLD 8839)

EDLD	8839	Directed Research in Educational Leadership (Taken in final spring semester of Tier I)
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Leadership Core

EDLD	8135	Educational Planning
EDLD	8436	Grant Development/Administration
EDLD	8536	Assessment and Evaluation in Higher Education
EDLD	8537	Globalization and Higher Education

Higher Education Professional Core

Select three of the following:

EDLD	8431	Higher Education Law
EDLD	8432	Higher Education Finance
EDLD	8433	Higher Education Governance
EDLD	8434	The Community College
EDLD	8435	Higher Education Policy
EDLD	8439	Politics of Higher Education
ITEC	8435	Program Evaluation

Substitutions may be authorized with the advisor's approval.

Tier II Core Courses **30**

Higher Education Leadership and P-12 Educational Leadership students complete the same Tier II courses.

EDLD	9434	Transformative Educational Leadership Practice I
EDLD	9435	Transformative Educational Leadership Practice II
EDLD	9531	Educational Leadership in the 21st Century
EDLD	9534	Emerging Pedagogical Approaches in Educational Leadership
EDLD	9631	Research Seminar I
EDLD	9632	Research Seminar II
EDLD	9633	Research Seminar III
EDLD	9634	Research Seminar IV
EDUR	9131	Doctoral Research Methods
EDUR	9231	Qualitative Research in Education

Tier III Dissertation **9**

EDLD	9999	Dissertation
Total Credit Hours		39-69

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Instructional Technology Ed.S. (Online)**Degree Requirements: 30 Credit Hours****Concentrations**

Candidates must select a concentration in their area of certification. Candidates certified in other fields may select Instructional Technology to pursue certification in that field.

- Instructional Technology
- School Library Media

The courses in this program are offered 100% online.

This program will lead to a Georgia level six certificate upgrade for candidates with a Georgia level five certificate in Instructional Technology or School Library Media. Candidates will select the concentration that matches their field of certification (Instructional Technology or School Library Media). This program is approved by the Georgia Professional Standards Commission as a program leading to initial certification in Instructional Technology. Candidates with a Georgia level five certificate in another field may add Instructional Technology to their certificate and upgrade to a level 6 by completing the Instructional Technology concentration and successfully completing the GACE Content assessment in Instructional Technology. Note: It is the students' responsibility to confirm that their academic plans meet current certificate requirements of the Georgia Professional Standards Commission.

Admission Requirements**Regular Admission**

1. Complete requirements for a master's degree from a regionally accredited institution.
2. Present a 3.25 or higher GPA on all graduate work attempted.
3. Possess or be eligible for a renewable Georgia level five or higher teaching, service or leadership certificate; or possess an equivalent out-of-state certificate. Candidates who have completed all requirements for the Georgia level five teaching certificate have until the end of the first semester to obtain the certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion. **Candidates for the School Library Media concentration must hold certification in the School Library Media content area.**
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, criminal background check, the Code of Ethics for Educators, and tort liability insurance.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

Concentration: Instructional Technology or School Library Media

	Credit Hours
Research Sequence Requirements	6
EDUR 8131 Educational Statistics I ¹	
EDUR 8231 Applied Qualitative Research Methods ¹	
Major Requirements	15
ITEC 8133 Current Trends and Issues in Instructional Technology	
ITEC 8134 Theories and Models of Instructional Design ²	
ITEC 8135 Pedagogy of Online Learning ³	
ITEC 8636 Technology, Leadership, and Change	
ITEC 8739 Capstone in Instructional Technology ⁴	
Electives	
Select 9 credit hours of Electives (must include 6 hours of ITEC electives) ⁵	9
Total Credit Hours	30

¹ Educational Research (EDUR 7130) or Action Research in Elementary Settings (EDUR 7140) or equivalent or permission of the instructor is required.

² *Prerequisite(s): Instructional Design (ITEC 7430) or a course in Instructional Design*

³ *Prerequisite(s): Theories and Models of Instructional Design (ITEC 8134)*

⁴ *Students seeking Media Specialist certification upgrade need to focus their course work on School Library Media related topics and students seeking Instructional Technology certification upgrade need to focus their course work on Instructional Technology related topics.*

⁵ *Candidates must select electives in consultation with their advisor or the program coordinator. **Candidates who have not previously taken EDUR 7130 (or equivalent) must take this course as an elective.***

Other Program Requirements

- Candidates seeking initial certification in Instructional Technology must focus required course activities in Current Trends and Issues in Instructional Technology (ITEC 8133), Theories and Models of Instructional Design (ITEC 8134) and Capstone in Instructional Technology (ITEC 8739) on their field of initial certification.
- All program requirements, including the Comprehensive Exit Assessment, will be completed online using appropriate technologies.
- Instructional Technology Foundations (ITEC 7530 (<https://catalog.georgiasouthern.edu/search/?P=ITEC%207530>) or equivalent) may not be used toward the Instructional Technology Ed.S. Program elective.
- Must successfully complete assessments identified at each program transition point.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information

regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

School Psychology Ed.S.

Degree Requirements: 78 Credit Hours

Program Intent

This program provides training to serve children and adolescents with learning, behavioral, or emotional problems in educational settings. After successful completion of 36 credits of course work and passing a written comprehensive examination, students may be awarded an interim M.Ed. degree and continue on in the program to complete the remaining requirements of the Ed.S. degree. The 36 credits required for the interim M.Ed. include the following courses: Professional Education Core Requirements (6 credits), Specific Requirements (27 credits), and Educational Research (EDUR 7130) (3 credits). Professional entry-level in the field of School Psychology requires Level Six (S-6) Certification which is acquired after successful completion of the prescribed Ed.S. Program of Study and a passing score on the GACE examination in School Psychology.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree in the social sciences or in education from a regionally accredited institution.
2. Present a cumulative 3.00 (4.0 scale) or higher GPA on all undergraduate and graduate work (if any) combined.
3. Submit a personal statement of purpose that includes reasons for selecting school psychology as a career, self evaluation of personal qualities that would be brought into the program, and the impacts the applicant believes school psychologists should have on the lives of children.
4. Submit three letters of recommendation from persons well acquainted with the applicant's academic and/or professional performance.
5. Participate in an on-campus, phone, or virtual interview if notified.
6. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, criminal background check, the Code of Ethics for Educators, and tort liability insurance. Students who are accepted into the program must agree to abide by the ethical principles established by the National Association of School Psychologists. Documentation of professional liability insurance must be submitted to the assigned advisor at the beginning of the first semester.
7. Submit passing scores on the GACE Program Admission Assessment or be exempt by acceptable SAT, ACT, or GRE scores.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

	Credit Hours
Professional Education Core Requirements	6
EDUC 8130 Curriculum Theories and Design or READ Approaches to Literacy Instruction 7131	
EDUF 7130 Learning Theories and Applications	
Specific Requirements	27
COUN 7332 Theories of Counseling	
COUN 7333 Counseling Skills and Techniques	
COUN 7338 Lifespan Development	
ESPY 7130 Professional School Psychology	
ESPY 7131 Behavioral Interventions	
ESPY 7132 Classroom-based Performance and Psychometrics	
ESPY 7133 Implications of Child Psychopathology in Schools	
ESPY 7230 Developmental Diagnosis in Early Childhood	
ITEC 7430 Instructional Design	
Research Sequence Requirements	12
EDUR 7130 Educational Research	
EDUR 8131 Educational Statistics I	
EDUR 8331 Applied Measurement	
ESPY 8330 Program Evaluation for School Psychologists	
Specialized School Psychology Content Requirements	24
ESPY 8130 Curriculum-based Assessment and Response-to-Intervention	
ESPY 8131 Individual Intellectual Assessment	
ESPY 8132 Addressing Diversity in School-based Conceptualization	
ESPY 8133 Personality and Behavioral Assessment in the Schools	
ESPY 8135 Crisis Intervention and Prevention	
ESPY 8136 School, Home, and Community Partnering	
ESPY 8230 Consulting in Educational Settings	
ESPY 8631 Seminar in School Psychology	
Applied School Psychology Content Requirements	9
ESPY 8737 Practicum in School Psychology	
ESPY 8738 School Psychology Internship I	
ESPY 8739 School Psychology Internship II	
Total Credit Hours	78

Other Program Requirements

- Successful completion of 36 credits and written School Psychology Comprehensive exam are required to obtain the interim M.Ed. degree. Students may only take this exam twice and must pass it to receive the M.Ed. degree and to continue on in the program.
- Must successfully complete assessments identified at each program transition point.
- Must successfully complete key assessments in the program.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

NOTE: Successful completion of GACE Examination required for S-6 Certification in School Psychology.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Counselor Education M.Ed.

Degree Requirements: 60 Credit Hours

Program Intent

The Counselor Education program prepares counselors to work in school and clinical settings. There are two degree program concentrations based on educational background and career goals, and both concentrations are accredited by CACREP:

Concentration One

School Counseling - This concentration is designed for people who wish to work as school counselors. The concentration is designed for graduates to meet the requirements for school counseling certification in Georgia.

Concentration Two

Clinical Mental Health Counseling - This concentration is designed for people who wish to work as clinical mental health counselors in community agency settings (public, private, or non-profit).

Admission Requirements

Note: Admission to the graduate program is required. Non-degree status to achieve initial certification is not permitted.

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
3. Submit a personal statement of purpose, not to exceed 1000 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional goals and aspirations.
4. Submit a current resume.
5. Submit two letters of recommendation.
6. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, criminal background check, the Code of Ethics for Educators, and tort liability insurance.
7. Participate in an on-campus interview.
8. For Concentration One, School Counseling, pass the GACE Program Admission Assessment.

Provisional Admission

Consideration for provisional admission available for Concentration Two, Clinical Mental Health Counseling, only. Applicants may be approved

for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of B or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Acquiring School Counseling Certification for People who Already Hold a Master's Degree

1. People who hold a master's degree in an area other than School Counseling may qualify for the School Counselor Level Five Certificate by completing the 60 credit M.Ed. in Counselor Education, School Counseling Concentration One. Up to three courses from a previous master's program may be applied toward degree requirements.

Program of Study

Concentration One: School Counseling, 60 Credit Hours

	Credit Hours
Professional Education Core Requirements	6
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
Specific Requirements	24
COUN 7332 Theories of Counseling	
COUN 7333 Counseling Skills and Techniques	
COUN 7334 Group Counseling and Group Work	
COUN 7335 Counseling Assessment and Appraisal	
COUN 7336 Career Counseling	
COUN 7337 Multicultural Counseling	
COUN 7338 Lifespan Development	
COUN 7737 Counseling Practicum	
School Counseling Requirements ¹	30
COUN 7233 Family Counseling or SPED Introduction to Special Education 6130	
COUN 7234 Counseling Psychodiagnosis	
COUN 7235 Short Term Counseling Strategies	
COUN 7445 Foundations of School Counseling	
COUN 7437 School Counseling Program Coordination and Curriculum	
COUN 7448 Leadership, Consultation and Intervention in the Schools	
COUN 7738 Counseling Internship I	
COUN 7739 Counseling Internship II	
COUN 8533 Professional Practice and Ethics	
ESPY 8135 Crisis Intervention and Prevention	
Total Credit Hours	60

¹ All candidates for Concentration One, School Counseling, must take SPED 6130 or equivalent unless they have already earned prior credit for the course as approved by their advisor, in which case they may instead take COUN 7233. SPED 6130 is an additional state special education requirement for certified employees for the purposes of certification.

Concentration Two: Clinical Mental Health Counseling, 60 Credit Hours

	Credit Hours
Professional Education Core Requirements	6
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
Specific Requirements	24
COUN 7332 Theories of Counseling	
COUN 7333 Counseling Skills and Techniques	
COUN 7334 Group Counseling and Group Work	
COUN 7335 Counseling Assessment and Appraisal	
COUN 7336 Career Counseling	
COUN 7337 Multicultural Counseling	
COUN 7338 Lifespan Development	
COUN 7737 Counseling Practicum	
Clinical Mental Health Counseling Requirements	30
COUN 7231 Foundations of Clinical Mental Health Counseling	
COUN 7232 Addictions Counseling	
COUN 7233 Family Counseling	
COUN 7234 Counseling Psychodiagnosis	
COUN 7235 Short Term Counseling Strategies	
COUN 7236 Counseling and Sexuality	
COUN 7738 Counseling Internship I	
COUN 7739 Counseling Internship II	
COUN 8533 Professional Practice and Ethics	
ESPY 8135 Crisis Intervention and Prevention	
Total Credit Hours	60

Other Program Requirements

- For all concentrations, successful completion of assessments identified at each program transition point and successful completion of a Professional Portfolio Examination.
- Maintain an active account with the COE electronic data management system.
- For Concentration One, claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Educational Leadership M.Ed. (Online)

Degree Requirements: 36 Credit Hours

Completion of all program requirements leads to an M.Ed. as approved by Georgia Southern University's, Educational Leadership Tier 1 certification, and a Teacher Leader Endorsement as approved by the Georgia Professional Standards Commission (GaPSC).

Admission Requirements

Regular Admission

1. Complete requirements for a Bachelor's degree from a regionally accredited institution.
2. Possess a Professional Level Four Certificate or higher in a teacher, service, or leadership field.
3. Present a cumulative 2.75 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Acknowledge Disclosure and Affirmation questions within the application that address misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.
6. Submit The Principal's Assurance Form.
7. Submit a current resume or CV that highlights the personal and professional achievements of the applicant. Candidate must be employed in a P-12 school setting in order to complete required field experience hours.
8. Submit a passing score on the state-required Georgia Educator Ethics for Educational Leadership Assessment.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

	Credit Hours
Leadership Professional Core Requirements	21
EDLD 7531 Legal and Ethical Issues in School Leadership	
EDLD 7532 Managing Human Capital	
EDLD 7539 Finance for Educational Leaders	
EDLD 7540 Politics of P-12 Public Education	
EDLD 7737 Supervised Field Experience I	
EDLD 7738 Supervised Field Experience II	
EDLD 7739 Supervised Field Experience III	
Teacher Leadership Endorsement Core Requirements	9
EDLD 7530 Transformational School Leadership	
EDLD 7535 Utilizing Data in Leadership	
EDLD 7536 Developing Professional Learning Communities	
Professional Education Core Requirements	6
EDUF 7140 Learning, Cognition, and Curriculum	

EDUR 7130 Educational Research

Total Credit Hours

36

Other Program Requirements

- Candidate's local Unit of Administration (LUA) is required to have entered into an agreement with Georgia Southern University that outlines the agreements related to Tier I Leadership preparation. Said agreement must state that the LUA and school agree to allow candidates to complete 250 hours of clinical practice (Supervised Field Experience) and to provide supporting documents, as well as access to opportunities to lead and participate in leadership functions as appropriate for completion of leadership performances. Additional requirements are listed below; additionally, candidates must comply with any rule changes and/or additions instituted by the GaPSC affecting Educational Leadership certification.
- Passing scores on the Georgia Assessments for the Certification of Educators® (GACE®) Educational Leadership assessment.
- All candidates must pass the Georgia Ethics for Educational Leadership Assessment prior to completion (if not completed for program admission).
- Upon admission, candidates must claim Georgia Southern University as their provider. Candidates must log into their MyPSC account (<https://mypsc.gapsc.org/Home.aspx>) and claim Georgia Southern University as their provider.

***It is important to note that admission to and completion of Tier 1 does not ensure employment in a leadership position. Under state law, completion of an approved Tier 1 program will not lead to additional pay until employed by a Local Unit of Administration (LUA) in a leadership position that requires Tier 1 certification. ***

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Higher Education Administration M.Ed. (Hybrid)

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Present a cumulative 2.75 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
3. Submit a personal statement of purpose that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
4. Submit a current professional resume or CV.

- Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

	Credit Hours
Professional Education Core Requirements	9
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
ITEC 7539 Technology for Higher Education Leaders	
Higher Education Administration Core	18
EDLD 7430 American Higher Education	
EDLD 7431 Higher Education Administration	
EDLD 7432 History of American Higher Education	
EDLD 8431 Higher Education Law	
EDLD 8535 College Student Development	
EDLD 8735 Higher Education Practicum (Must be taken in final semester)	
Specialized Content Courses	9
Select three of the following in consultation with advisor	
EDLD 7331 Foundations of Student Affairs in Higher Education	
EDLD 8432 Higher Education Finance	
EDLD 8433 Higher Education Governance	
EDLD 8434 The Community College	
EDLD 8439 Politics of Higher Education	
EDLD 8536 Assessment and Evaluation in Higher Education	
EDLD 8537 Globalization and Higher Education	
EDUF 7235 Multicultural Education	
ITEC 7430 Instructional Design	
ITEC 7530 Instructional Technology Foundations	
Total Credit Hours	36

Other Program Requirements

- Successful completion of a professional portfolio with practicum
- Must successfully complete key assessments related to specific courses in the Program of Study.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Instructional Technology M.Ed. (Georgia ONmyLINE)

Degree Requirements: 36-42 Credit Hours

The courses in this program are offered 100% online.

This program is approved by the Georgia Professional Standards Commission as a program leading to certification in Instructional Technology. Completing the program will prepare candidates for certification, but candidates should consult with program faculty, the College of Education Graduate Academic Services Center, or the Georgia Professional Standards commission regarding current certification rules upon entering the program.

Admission Requirements

Regular Admission

- Complete requirements for a bachelor's degree from a regionally accredited institution.
- For admission into the **Instructional Technology concentration** or the **Dual Certification concentration**, candidates must possess or be eligible for a renewable Georgia level four or higher Induction, Professional, Advanced Professional, or Lead Professional teaching certificate, leadership certificate, service field certificate, or Life certificate; or possess an equivalent out-of-state level four or higher certificate. Candidates who have completed all requirements for the Georgia level four teaching certificate have until the end of the first semester to obtain the certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
For admission into the **School Library Media Specialist concentration**, candidates may or may not possess a teaching certificate:
 - Candidates who possess or are eligible for a renewable Georgia level four or higher certificate, or who possess an equivalent out-of-state certificate should submit a copy of their certification. Candidates who have completed all requirements for the Georgia level four teaching certificate have until the end of the first semester to obtain certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
 - Candidates may also pursue this concentration without prior Georgia certification as initial certification in Georgia. Persons seeking initial certification must submit passing scores on the GACE Program Admission Assessment, or be exempt by acceptable SAT, ACT, GRE, or GACE Basic Skills scores. Additionally, candidates may be subject to additional course requirements for certification.
- Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
- Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, criminal background check, the Code of Ethics for Educators, and tort liability insurance.

Program of Study

Concentration: Instructional Technology, 36 Credit Hours

Concentration Intent: This program meets the content requirements for a level five Service Certificate in Instructional Technology in Georgia.

	Credit Hours
Professional Education Core Requirements	6
FRER 7130 Educational Research	
FRLT 7130 Learning Theories and Applications	
Specific Requirements	24
FRIT 7231 Instructional Design	
FRIT 7232 Visionary Leadership in Instructional Technology	
FRIT 7233 Selection and Development of Digital Tools and Resources	
FRIT 7234 Information Fluency and Inquiry Learning	
FRIT 7235 Digital Learning Environments ¹	
FRIT 7236 Technology-Based Assessment and Data Analysis	
FRIT 7237 Evaluation of Educational Needs and Programs	
FRIT 7739 Practicum in Instructional Technology ²	
Content Electives	6
Select 6 credit hours of Content Electives (Must have Advisor approval.)	
Total Credit Hours	36

- ¹ Requires Instructional Design (FRIT 7231) as a prerequisite.
- ² Admission into Practicum in Instructional Technology (FRIT 7739) requires completion of all program specific required courses and acceptable level performance on all program key assessments.

Other Program Requirements

- Must maintain an account on the College's electronic data-management system.
- Must successfully complete assessments identified at each program transition point.
- Instructional Technology Foundations (ITEC 7530) -or equivalent- may not be used toward the Instructional Technology M.Ed. Program elective.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (See information under MyPSC Account in the Graduate Catalog).

Program of Study

Concentration: School Library Media Specialist, 36 Credit Hours

Concentration Intent: This program meets the content requirements for level five Service certification as a media specialist in Georgia.

	Credit Hours
Professional Education Core Requirements	6
FRER 7130 Educational Research	
FRLT 7130 Learning Theories and Applications	
Specific Requirements	21
FREC 7232 Children's Literature or FRMS 7331 Early Adolescent Literature	
FRIT 7231 Instructional Design	
FRIT 7233 Selection and Development of Digital Tools and Resources	
FRIT 7234 Information Fluency and Inquiry Learning	

FRIT 7235 Digital Learning Environments ¹	
FRIT 7331 Leadership of the School Library Media Program	
FRIT 7332 The School Library Literacy Environment	
Select one of the following:	3-6
FRIT 7734 Practicum in School Library Media ²	
FRIT 7765 Clinical Practice in School Library Media ^{2,3}	
Content Electives	3-6
Select 3-6 credit hours of Content Electives	
Total Credit Hours	36

- ¹ Requires Instructional Design (FRIT 7231) as a prerequisite.
- ² Admission into Practicum in School Library Media (FRIT 7734) or Clinical Practice in School Library Media (FRIT 7765) requires completion of all program-specific required courses and acceptable level performance on all program key assessments.
- ³ Candidates who are not certified to teach in Georgia enroll in Clinical Practice in School Library Media (FRIT 7765) in place of Practicum in School Library Media (FRIT 7734) and one content elective instead of two content electives.

Other Program Requirements

- If the student does not possess a level four certificate in a teaching field, a course in the identification and instruction of children with special needs is required for school library certification (S-5). This course should be selected following consultation with an advisor.
- Must maintain an account on the College's electronic data-management system.
- Must successfully complete assessments identified at each program transition point.
- Instructional Technology Foundations (ITEC 7530) -or equivalent- may not be used toward the Instructional Technology M.Ed. Program elective.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (See information under MyPSC Account in the Graduate Catalog).

Dual Certification Concentration: School Library Media Specialist and Instructional Technology, 42 Credit Hours

	Credit Hours
Professional Education Core Requirements	6
FRER 7130 Educational Research	
FRLT 7130 Learning Theories and Applications	
Specific Requirements	36
FREC 7232 Children's Literature or FRMS 7331 Early Adolescent Literature	
FRIT 7231 Instructional Design	
FRIT 7232 Visionary Leadership in Instructional Technology	
FRIT 7233 Selection and Development of Digital Tools and Resources	
FRIT 7234 Information Fluency and Inquiry Learning	
FRIT 7235 Digital Learning Environments ¹	
FRIT 7236 Technology-Based Assessment and Data Analysis ¹	

FRIT 7237	Evaluation of Educational Needs and Programs ¹	
FRIT 7331	Leadership of the School Library Media Program	
FRIT 7332	The School Library Literacy Environment	
FRIT 7734	Practicum in School Library Media ²	
FRIT 7739	Practicum in Instructional Technology ³	
Total Credit Hours		42

¹ Requires Instructional Design (FRIT 7231) as a prerequisite.

² Admission into Practicum in School Library Media (FRIT 7734) requires completion of all program specific required courses and acceptable level performance on all program key assessments.

³ Admission into Practicum in Instructional Technology (FRIT 7739) requires completion of all program specific required courses and acceptable level performance on all program key assessments.

Candidates completing this course of study do not take any electives.

Other Program Requirements

- Must maintain an account on the College's electronic data-management system.
- Must successfully complete assessments identified at each program transition point.
- Instructional Technology Foundations (ITEC 7530) -or equivalent- may not be used toward the Instructional Technology M.Ed. Program elective.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (See information under MyPSC Account in the Graduate Catalog).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Educational Leadership Tier I Certificate Program (Online)

Degree Requirements: 18 Credit Hours

Completion of all program requirements leads to an Educational Leadership Tier I certification and a Teacher Leader Endorsement as approved by the GaPSC.

Admission Requirements

Regular Admission

1. Complete requirements for a master's degree from a regionally accredited institution.
2. Possess or be eligible for a Professional Level Five Certificate or higher in a teaching, service, or leadership field.
3. Present a cumulative 2.75 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.

4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Acknowledge Disclosure and Affirmation questions within the application that address misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.
6. Submit the Principal's Assurance Form.
7. Submit a current resume or CV. Candidate must be employed in a P-12 school setting in order to complete required field experience hours.
8. Submit a passing score on the state-required Georgia Educator Ethics for Educational Leadership Assessment.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) hours of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

	Credit Hours
Leadership Professional Core Requirements	9
EDLD 7531 Legal and Ethical Issues in School Leadership	
EDLD 7737 Supervised Field Experience I	
EDLD 7738 Supervised Field Experience II	
Teacher Leadership Endorsement Core Requirements	9
EDLD 7530 Transformational School Leadership	
EDLD 7535 Utilizing Data in Leadership	
EDLD 7536 Developing Professional Learning Communities	
Total Credit Hours	18

Other Program Requirements

- Candidate's local Unit of Administration (LUA) is required to have entered into an agreement with Georgia Southern University that outlines the agreements related to Tier I Leadership preparation. Said agreement must state that the LUA and school agree to allow candidates to complete 250 hours of clinical practice (Supervised Field Experience) and to provide supporting documents, as well as access to opportunities to lead and participate in leadership functions as appropriate for completion of leadership performances. Additional requirements are listed below; additionally, candidates must comply with any rule changes and/or additions instituted by the GaPSC affecting Educational Leadership certification.
- Passing score on the Georgia Assessments for the Certification of Educators® (GACE®) Educational Leadership assessment (Test # 301) prior to program completion.
- All candidates must pass the Georgia Ethics for Educational Leadership Assessment prior to completion (if not completed for program admission).
- Upon admission, candidates must claim Georgia Southern University as their provider. Candidates must log into their MyPSC account (<https://mypsc.gapsc.org/Home.aspx>) and claim Georgia Southern University as their provider,

****It is important to note that admission to and completion of Tier 1 does not ensure employment in a leadership position. Under state law, completion of an approved Tier 1 program will not lead to additional pay**

until employed by a local Unit of Administration (LUA) in a leadership position that requires Tier 1 certification.**

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Email: gradschool@georgiasouthern.edu

Instructional Technology Certificate Program (Online)

Requirements: 24 Credit Hours

The courses in this program are offered 100% online.

This program is approved by the Georgia Professional Standards Commission as a program leading to certification in Instructional Technology. Completing the program will prepare candidates for certification, but candidates should consult with program faculty, the College of Education Graduate Academic Services Center, or the Georgia Professional Standards Commission regarding current certification rules upon entering the program.

Admission Requirements

Regular Admission

1. Complete requirements for a master's degree in education from a regionally accredited institution.
2. Possess or be eligible for a valid Georgia level five or higher Induction, Professional, Advanced Professional, or Lead Professional teaching certificate, leadership certificate, service field certificate, or Life certificate, or possess an equivalent out-of-state level five or higher certificate. Candidates who have completed all requirements for the Georgia level five teaching certificate have until the end of the first semester to obtain the certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, criminal background check, the Code of Ethics for Educators, and tort liability insurance.

Program of Study

Specific Requirements	Credit Hours
FRIT 7231 Instructional Design	24
FRIT 7232 Visionary Leadership in Instructional Technology	
FRIT 7233 Selection and Development of Digital Tools and Resources	
FRIT 7234 Information Fluency and Inquiry Learning	
FRIT 7235 Digital Learning Environments ¹	
FRIT 7236 Technology-Based Assessment and Data Analysis ¹	

FRIT 7237	Evaluation of Educational Needs and Programs ¹
FRIT 7739	Practicum in Instructional Technology ²
Total Credit Hours	
24	

- ¹ Requires Instructional Design (FRIT 7231) as a prerequisite
² Admission into Practicum in Instructional Technology (FRIT 7739) requires completion of all program specific required courses and acceptable level performance on all program key assessments

Other Program Requirements

- Must maintain an account on the College's electronic data-management system.
- Must successfully complete assessments identified at each program transition point.
- Instructional Technology Foundations (ITEC 7530) (or equivalent course) may not be used as credit toward Instructional Technology certification.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Email: gradschool@georgiasouthern.edu

School Library Media Certificate Program (Online)

Requirements: 24-27 Credit Hours

The courses in this program are offered 100% online.

This program is approved by the Georgia Professional Standards Commission as a program leading to certification in Instructional Technology. Completing the program will prepare candidates for certification, but candidates should consult with program faculty, the College of Education Graduate Academic Services Center, or the Georgia Professional Standards Commission regarding current certification rules upon entering the program.

Admission Requirements

Regular Admission

1. Complete requirements for a master's degree from a regionally accredited institution.
2. Candidates may or may not possess a teaching certificate:
 - a. Candidates who possess or are eligible for a renewable Georgia level four teaching certificate; or who possess an equivalent out-of-state certificate should submit a copy of their certification. Candidates who have completed all requirements for the Georgia level four teaching certificate have until the end of the first semester to obtain the certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.

- b. Candidates may also pursue this program without prior Georgia certification as initial certification in Georgia. Persons seeking initial certification must submit passing scores on the GACE Program Admission Assessment, or be exempt by acceptable SAT, ACT, GRE, or GACE Basic Skills scores. Additionally, candidates may be subject to additional course requirements for certification.
- 3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
- 4. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, criminal background check, the Code of Ethics for Educators, and tort liability insurance.

Program of Study

Specific Requirements	Credit Hours	
FREC 7232 Children's Literature or FRMS Early Adolescent Literature 7331	21	
FRIT 7231 Instructional Design		
FRIT 7233 Selection and Development of Digital Tools and Resources		
FRIT 7234 Information Fluency and Inquiry Learning		
FRIT 7235 Digital Learning Environments ¹		
FRIT 7331 Leadership of the School Library Media Program		
FRIT 7332 The School Library Literacy Environment		
Select one of the following:		3-6
FRIT 7734 Practicum in School Library Media ²		
FRIT 7765 Clinical Practice in School Library Media ₃		
Total Credit Hours	24-27	

¹ Requires Instructional Design (FRIT 7231) as a prerequisite

² Admission into Practicum in School Library Media (FRIT 7734) requires completion of all program specific required courses and acceptable level performance on all program key assessments. This course is designed for candidates who already possess teacher certification in Georgia.

³ Admission into Practicum in School Library Media (FRIT 7734) requires completion of all program specific required courses and acceptable level performance on all program key assessments. Candidates who are not certified to teach in Georgia enroll in Clinical Practice in School Library Media (FRIT 7765) in place of Practicum in School Library Media (FRIT 7734).

Other Program Requirements

- If the student does not possess a level four certificate in a teaching field, a course in the identification and instruction of children with special needs is required for school library certification (S-5), and a grade of B or higher must be earned. This course should be selected following consultation with an advisor.
- Must maintain an account on the College's electronic data-management system.
- Must successfully complete assessments identified at each program transition point.
- Instructional Technology Foundations (ITEC 7530) (or equivalent course) may not be used as credit toward certification.

- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Online Teaching and Learning Endorsement (Online)

Requirements: 9 Credit Hours

Admission Requirements

1. Possess a valid, level four or higher Induction, Professional, Advanced Professional, or Lead professional teaching certificate.
2. Present a 3.25 or higher GPA on all graduate work attempted.
3. Submit a completed Disclosure and Affirmation Form that addresses misconduct disclosure, criminal background check, the Code of Ethics for Educators, and tort liability insurance.

Program of Study

Course Requirements	Credit Hours
ITEC 8134 Theories and Models of Instructional Design	9
ITEC 8135 Pedagogy of Online Learning	
ITEC 8136 Field Experience in Online Teaching and Learning	
Total Credit Hours	9

Other Program Requirements

- Successful completion of the program key assessments.
- Must successfully complete assessments identified at each program transition point.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)

Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Teacher Leadership Endorsement (Online)

Requirements: 9 Credit Hours

Completion of all program requirements leads to a Teacher Leader Endorsement as approved by the GaPSC.

Admission Requirements

Regular

1. Complete requirements for a bachelor's degree from a regionally accredited institution
2. Present a cumulative 2.75 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined from an accredited college/university.
3. Possess an Induction (including one year of teaching experience) or Professional Level Four or higher certificate in a teaching, service, or leadership field.
4. Submit a current resume or CV that demonstrates at least one year of teaching experience in a P-12 setting.
5. Acknowledge Disclosure and Affirmation questions within the application that address misconduct disclosure; the Code of Ethics for Educators, and tort liability insurance.

Program of Study

Course Requirements	Credit Hours
EDLD 7530 Transformational School Leadership	9
EDLD 7535 Utilizing Data in Leadership	
EDLD 7536 Developing Professional Learning Communities	
Total Credit Hours	9

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Department of Middle Grades and Secondary Education

The Department of Middle Grades and Secondary Education at Georgia Southern University offers a variety of programs to prepare teachers and provide advanced professional development. Programs at the undergraduate level include middle grades education (4-8); secondary education (6-12) with specializations in biology, chemistry, English, history, mathematics and physics; and health and physical education (P- 12). The Master of Arts in Teaching (MAT) program offers initial teacher preparation

in middle grades, health and physical education, and Spanish education, as well as secondary education in areas of business, biology, chemistry, economics, English, history, geography, mathematics, physics, and political science. The department offers Master of Education (M.Ed.) and Education Specialist (Ed.S) degrees in middle grades and secondary education and an M.Ed. in Teaching Culturally and Linguistically Diverse Students. In addition to these degree programs, the department also offers endorsements in English for speakers of other languages (ESOL), gifted education, teacher support and coaching, and a certificate in teaching culturally and linguistically diverse students.

Programs

Education Specialist

- Middle Grades Education (Grades 4-8) Ed.S. (Online) (p. 128)
- Secondary Education (Grades 6-12) Ed.S. (Online) (p. 130)

Master's

- Middle Grades Education (Grades 4-8) M.Ed. (Online) (p. 129)
- Secondary Education (Grades 6-12) M.Ed. (Online) (p. 131)
- Teaching Culturally and Linguistically Diverse Students M.Ed. (p. 133)
- Teaching M.A.T. (Concentration in Health and Physical Education P-12) (Online) (p. 134)
- Teaching M.A.T. (Concentration in Middle Grades Education Grades 4-8) (Online) (p. 135)
- Teaching M.A.T. (Concentration in Secondary Education Grades 6-12) (Online) (p. 137)
- Teaching M.A.T. (Concentration in Spanish Education P-12) (p. 138)

Certificates

- Teaching Culturally and Linguistically Diverse Students Certificate (Online) (p. 133)

Endorsements

- English for Speakers of Other Languages (ESOL) Education Endorsement (Online) (p. 127)
- Gifted In-field Graduate Endorsement (Online) (p. 128)
- Teacher Support and Coaching Endorsement (Online) (p. 132)

English for Speakers of Other Languages (ESOL) Education Endorsement (Online)

Endorsement Requirements: 9 Credit Hours

Prepares individuals to teach English to speakers of other languages in grades P-12.

Program of Study

Course Requirements	Credit Hours
TCLD 6231 Cultural Diversity and ESOL/TCLD	9
TCLD 6233 Applied Linguistics for ESOL/TCLD	
TCLD 6235 Methods for Teaching ESOL/TCLD	
Total Credit Hours	9

Additional Program Requirements

1. Hold a bachelor's degree from a regionally accredited institution.
2. Hold a valid Georgia Level Four Teaching Certificate.
3. Complete 9 credits of prescribed course work.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Email: gradschool@georgiasouthern.edu

Gifted In-field Graduate Endorsement (Online)

Gifted In-field Endorsement Requirements: 12 Credit Hours

Purpose

Gifted In-field Endorsement: The four courses for the gifted in-field endorsement have purposely been planned for candidates to participate in systematically designed field experiences in settings that provide them with opportunities to observe, practice, and demonstrate the knowledge, skills, and dispositions delineated in institutional, state, and national standards to teach gifted learners at the grade levels of their intended certification. The program is approved by the Georgia Professional Standards Commission (PSC).

Candidates in the Gifted In-field Endorsement Program will understand how gifted learners grow and develop, recognizing that patterns of learning and development vary individually including the cognitive, linguistic, social, emotional, and cultural aspects of gifted learners in order to design and teach developmentally appropriate and challenging learning experiences. In addition, candidates will plan instruction that supports every gifted learner in meeting rigorous learning goals by drawing upon knowledge of the nature and needs of gifted learners, content areas, differentiated curriculum, and pedagogy and use multiple methods of assessment to engage learners in their own growth, to monitor learner progress, and to guide the teacher's and learner's decision making. Candidates will also learn the significance of the learning context in order to ensure academically challenging learning environments that enable gifted learners to meet high standards and to interact with other high ability learners.

Requirements

1. Completed requirements for a Bachelor's degree from a regionally accredited institution.
2. Possess a renewable Georgia level four Induction certificate or higher. Certification must be in one of the following: Elementary Education, Middle Grades Education, Secondary Education, and Special Education.
3. Present a cumulative 3.0 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing a Gifted In-field Endorsement.

5. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Additional Requirements:

1. Courses must be taken in order.
2. Candidates must complete 20 hours in the field with each course.

Program of Study

Course Requirements	Credit Hours
ESED 5130G Nature and Needs of Gifted and Talented Learners	12
ESED 5131G Curriculum for Gifted and Talented Learners	
ESED 5132G Methods for Teaching Gifted and Talented Learners	
EDUF 5133G Assessment and Procedures for Teaching Gifted and Talented Learners	
Total Credit Hours	12

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Middle Grades Education (Grades 4-8) Ed.S. (Online)

Degree Requirements: 33 Credit Hours Concentrations

Candidates must select one area of concentration from the areas in which they are currently certified:

- Middle Grades Language Arts
- Middle Grades Mathematics
- Middle Grades Reading
- Middle Grades Science
- Middle Grades Social Studies.

Certificate Upgrade Information: An educator who holds a level five Georgia certificate in Middle Grades Education will qualify for a level six certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification).

Admission Requirements

Regular

1. Complete requirements for a master's degree from a regionally accredited institution.
2. Possess or be eligible for a Georgia level five certificate in Middle Grades Education or possess an equivalent out-of-state teaching certificate in Middle Grades Education. Certification must be in one of the following concentration areas: Middle Grades Language

Arts, Middle Grades Mathematics, Middle Grades Reading, Middle Grades Science, and Middle Grades Social Studies. Candidates who have completed all requirements for the Georgia level five teaching certificate have until the end of the first semester to obtain certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.

3. Present a 3.25 or higher GPA on all graduate work attempted.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Prerequisite Coursework

		Credit Hours
EDUF 7130	Learning Theories and Applications	3
EDUR 7130	Educational Research	3
or EDUR 7140	Action Research in Elementary Settings	

Program of Study

	Credit Hours
Core Requirements	12
EDUR 8131 Educational Statistics I	
EDUR 8231 Applied Qualitative Research Methods	
or EDUR 8331 Applied Measurement	
ESED 8131 Teacher Leadership	
ESED 8330 Teaching and Learning in Diverse P-12 Contexts	
Content Specific Requirements ¹	9
ESED 8130 Research on Current Trends and Issues ²	
ESED 8132 Curriculum and Instruction ³	
ESED 8839 Problem of Practice	
Electives	12
Select 12 credit hours of graduate-level electives (5000G or above) in the following subjects: EDUC, EDUF, EDUR, ELEM, ESED, ITEC, MGED, MSED, READ, SPED, or TCLD	
Total Credit Hours	33

¹ Ed.S. candidates must complete the Content Specific Requirements in Concentration Areas Research on Current Trends and Issues (ESED 8130), Curriculum and Instruction (ESED 8132), and Problem of Practice (ESED 8839).

² ESED 8130 Research on Current Trends and Issues must be taken before ESED 8132 Curriculum and Instruction

³ ESED 8132 Curriculum and Instruction must be taken semester before ESED 8839 Problem of Practice

Other Program Requirements

- Must successfully complete assessments identified at each program transition point.
- Claim Georgia Southern University as your program provider in your My PSC Account during your first term of enrollment (see information under My PSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Middle Grades Education (Grades 4-8) M.Ed. (Online)

Degree Requirements: 36 Credit Hours Concentrations

Candidates must select one area of concentration from the areas in which they are currently certified.

- Middle Grades Language Arts Education
- Middle Grades Mathematics Education
- Middle Grades Science Education
- Middle Grades Social Studies Education

Certificate Upgrade Information: An educator who holds a level four Georgia certificate in Middle Grades Education will qualify for a level five certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification).

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Possess or be eligible for a renewable Georgia level four teaching certificate in Middle Grades Education, or possess an equivalent out-of-state certificate. The certificate must be in one or more of the following concentration areas: Middle Grades Language Arts Education, Middle Grades Mathematics Education, Middle Grades Science Education, or Middle Grades Social Studies Education. Candidates who have completed all requirements for the Georgia level four teaching certificate have until the end of the first semester to obtain the certificate. Candidates with an out-of-state certification will not receive Georgia certification upon program completion.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.

- Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

	Credit Hours
Professional Education Core Requirements	9
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
ITEC 5233G Foundations of Technology-Enabled Learning	
Content-Specific Requirements	9
MSED 8331 Trends in the Content Areas	
MSED 8333 Readings and Research in the Content Areas	
Plus the advanced pedagogy course in one's area of certification:	
MSED 7331 Early Adolescent Literature	
MSED 7535 Teaching Middle Grades and Secondary Mathematics	
MSED 8231 Trends in Middle and Secondary Science	
MSED 8434 Trends in Middle and Secondary Social Studies	
Additional Requirements	12
EDUF 7134 Classroom Assessment and Data Literacy	
ESED 7131 Enhancing Student Performance	
MGED 8132 Effective Middle Schools	
MSED 7639 MED Seminar in Middle Grades and Secondary Education ¹	
Electives toward endorsement or certificate (Complete 6 hours toward one of the listed endorsements or certificate below).²	6
Total Credit Hours	36

¹ This is the capstone course for the program. It must be taken in the final spring semester of the course of study. Educational Research (EDUR 7130) is a pre-requisite for this course.

² Recommended electives would include courses that lead to specific endorsements or toward certificates:

Endorsements or Certificate Electives

English for Speakers of Other Languages (ESOL)

Endorsement: Applied Linguistics for ESOL/TCLD (TCLD 6233), Cultural Diversity and ESOL/TCLD (TCLD 6231), and Methods for Teaching ESOL/TCLD (TCLD 6235)

Online Teaching and Learning Endorsement: Theories and Models of Instructional Design (ITEC 8134), Pedagogy of Online Learning (ITEC 8135), and Field Experience in Online Teaching and Learning (ITEC 8136)

Reading Endorsement: Approaches to Literacy Instruction (READ 7131), Linking Literacy Assessment with Instruction (READ 7132), and Literacy in the Content Areas (READ 7330)

Curriculum and Pedagogy for Social Justice

Certificate: Foundations for Social Justice Education (EDUF 8631), Multicultural Education (EDUF 7235), Curriculum Design and Evaluation (EDUC 8230), Curriculum and Pedagogy for Social Justice (EDUC 8632), Social Justice Inquiry (EDUC 8633), and either Critical Readings in Reading/Literacy Education (READ 8630) or Understanding Diverse Students through Case Study (EDUF 7230)

Other Program Requirements

- Successfully complete assessments identified at each program transition point.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your My PSC Account during your first term of enrollment (see information under My PSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Secondary Education (Grades 6-12) Ed.S. (Online)

Degree Requirements: 33 Credit Hours Concentrations

Candidates must select a concentration in their area of certification:

- Biology Education
- Broad Field Science Education
- Business Education
- Chemistry Education
- Economics Education
- English Education
- Geography Education
- History Education

- Mathematics Education
- Physics Education
- Political Science Education

Certificate Upgrade Information: An educator who holds a level five Georgia certificate in a Secondary Education field will qualify for a level six certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification.)

Admission Requirements

Regular

1. Complete requirements for a master's degree from a regionally accredited institution.
2. Possess or be eligible for a Georgia level five certificate in Secondary Education or possess an equivalent out-of-state teaching certificate in Secondary Education. Certification must be in one of the secondary education certification fields: biology, broad field science, business, chemistry, economics, English, geography, history, mathematics, physics, or political science. Candidates who have completed all requirements for the Georgia level five teaching certificate have until the end of the first semester to obtain certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Present a 3.25 or higher GPA on all graduate work attempted.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Prerequisite Coursework

	Credit Hours
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
or EDUR 7140 Action Research in Elementary Settings	

Program of Study

	Credit Hours
Core Requirements	12
EDUR 8131 Educational Statistics I	
EDUR 8231 Applied Qualitative Research Methods	
or EDUR 8331 Applied Measurement	
ESED 8131 Teacher Leadership	
ESED 8330 Teaching and Learning in Diverse P-12 Contexts	
Content Specific Requirements ¹	9
ESED 8130 Research on Current Trends and Issues ²	
ESED 8132 Curriculum and Instruction ³	

ESED 8839 Problem of Practice

Electives 12

Select 12 credit hours of graduate-level electives (5000G or above) in the following subjects: EDUC, EDUF, EDUR, ELEM, ESED, ITEC, MGED, MSED, READ, SPED, or TCLD

Total Credit Hours 33

- ¹ Ed.S. candidates must complete the Content Specific Requirements in Concentration Areas Research on Current Trends and Issues (ESED 8130), Curriculum and Instruction (ESED 8132), and Problem of Practice (ESED 8839).
- ² ESED 8130 Research on Current Trends and Issues must be taken before ESED 8132 Curriculum and Instruction
- ³ ESED 8132 Curriculum and Instruction must be taken semester before ESED 8839 Problem of Practice

Other Program Requirements

- Must successfully complete assessments identified at each program transition point.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

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Secondary Education (Grades 6-12) M.Ed. (Online)

Degree Requirements: 36 Credit Hours

Concentrations

Candidates must select a concentration in their area of certification:

- Biology Education
- Broad Field Science Education
- Chemistry Education
- Economics Education
- English Education
- Geography Education
- History Education
- Mathematics Education
- Physics Education
- Political Science Education

Certificate Upgrade Information: An educator who holds a level four Georgia certificate in Secondary Education will qualify for a level five certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification.)

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Possess or be eligible for a renewable Georgia level four teaching certificate; or possess an equivalent out-of-state certificate. The certificate must be in one of the following certification areas: biology, broad field science, chemistry, economics, English, geography, history, mathematics, physics, or political science. Candidates who have completed all requirements for the Georgia level four teaching certificate have until the end of the first semester to obtain the certificate. Candidates with an out-of-state certificate will not receive Georgia certification upon program completion.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
5. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Program of Study

	Credit Hours
Professional Education Core Requirements	9
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
ITEC 5233G Foundations of Technology-Enabled Learning	
Content-Specific Requirements	9
MSED 8331 Trends in the Content Areas	
MSED 8333 Readings and Research in the Content Areas	
Plus the advanced pedagogy course in one's area of certification:	
MSED 7331 Early Adolescent Literature	
MSED 7433 Teaching Business Education in the Secondary Schools	
MSED 7535 Teaching Middle Grades and Secondary Mathematics	
MSED 8231 Trends in Middle and Secondary Science	
MSED 8434 Trends in Middle and Secondary Social Studies	
Additional Requirements	9
EDUF 7134 Classroom Assessment and Data Literacy	
ESED 7131 Enhancing Student Performance	
MSED 7639 MED Seminar in Middle Grades and Secondary Education ¹	

Electives towards endorsement or certificate (Complete 9 hours to earn one of the listed endorsements or toward the certificate below) ²	9
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Total Credit Hours	36
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- ¹ This is the capstone course for the program. It must be taken in the final spring semester of the course of study. Educational Research (EDUR 7130) is a pre-requisite for this course.
- ² Recommended electives would include courses that lead to specific endorsements or towards certificates:
Endorsements or Certificate Electives:
English for Speakers of Other Languages (ESOL) Endorsement: Applied Linguistics for ESOL/TCLD (TCLD 6233), ESED Cultural Diversity and ESOL/TCLD (TCLD 6231), and Methods for Teaching ESOL/TCLD (TCLD 6235)
Online Teaching and Learning Endorsement: Theories and Models of Instructional Design (ITEC 8134), Pedagogy of Online Learning (ITEC 8135), and Field Experience in Online Teaching and Learning (ITEC 8136)
Reading Endorsement: Approaches to Literacy Instruction (READ 7131), Linking Literacy Assessment with Instruction (READ 7132), and Literacy in the Content Areas (READ 7330)
Curriculum and Pedagogy for Social Justice Certificate: Foundations for Social Justice Education (EDUF 8631), Multicultural Education (EDUF 7235), Curriculum Design and Evaluation (EDUC 8230), Curriculum and Pedagogy for Social Justice (EDUC 8632), Social Justice Inquiry (EDUC 8633), and either Critical Issues in Literacy Education with Diverse Populations (READ 8530) or Understanding Diverse Students through Case Study (EDUF 7230)

Other Program Requirements

- Successfully complete assessments identified at each program transition point.
- Maintain an active account with the COE electronic data management system.
- Claim Georgia Southern University as your program provider in your MyPSC Account during your first term of enrollment (see information under MyPSC Account in Graduate Catalog, College of Education).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Teacher Support and Coaching Endorsement (Online)

Requirements: 6 Credit Hours

Admission Requirements

1. Admission to Georgia Southern University College of Graduate Studies.
2. Hold a bachelor's degree from a regionally accredited institution.
3. Hold a valid, level 4 or higher Professional, Advanced Professional, or Lead Professional teaching certificate, leadership certificate, Life

certificate, or service certificate with a recommendation to serve as a TSC from a local unit of administration or school administrator. Educators admitted to the program holding leadership, Life, or service certificates must have held a Professional teaching certificate.

4. Submit a completed 'Disclosure and Affirmation Form' that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability insurance.

Description of Endorsement Program

This Endorsement Program is for teachers and administrators that want to learn how to mentor/support pre-service, induction phase and/or professional educators.

Program of Study

Course Requirements			Credit Hours
ESED	8230	Introduction to Teacher Support and Coaching	6
ESED	8232	Teacher Support and Coaching Internship	
Total Credit Hours			6

Advisement

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 (gradschool@georgiasouthern.edu)

Teaching Culturally and Linguistically Diverse Students Certificate (Online)

Degree Requirements: 18 Credit Hours

Admission Requirements

1. Completed requirements for a bachelor's degree from a regionally accredited institution or the equivalent at a recognized international university.
2. Teaching certification is not required for admission. A teaching certificate and/or professional experience working with historically underrepresented populations is strongly preferred. This program will not certify candidates to teach in the state of Georgia.
3. A 2.50 (4.0 scale) cumulative grade point average in undergraduate work.
4. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability.
5. Submit a personal statement of purpose, not to exceed 250 words, that identifies the applicant's career goals, professional aspirations, and experiences or goals for working with historically underrepresented populations .

Description of Certificate Program

This Georgia Southern University graduate certificate program is for teachers and administrators that hope to provide high-quality instructional experiences for culturally and linguistically diverse students. The course work includes a menu of reading and assignment options that allow teachers and administrators to select activities that are most relevant to their local teaching context. One unique aspect is the potential for several teachers from a site or district to engage in the coursework simultaneously and collaborate on capstone experiences. The coursework aligns with the TAPS standards and TKES assessment system for teachers in Georgia. The program of study includes the three course sequence that leads to an ESOL endorsement for Georgia certified teachers and administrators. Successful completion of the additional three courses will earn enrollees the Georgia Southern University Teaching Culturally and Linguistically Diverse Students Graduate Certificate. (Note, however, completion of this program will not lead to teaching certification in Georgia.)

Program of Study

The Graduate Certificate program requires a total of 18 credit hours and is offered fully online.

Requirements			Credit Hours
EDUF	7230	Understanding Diverse Students through Case Study	18
EDUF	7235	Multicultural Education	
or EDUF	8631	Foundations for Social Justice Education	
EDUF	8233	Regional Issues In Multicultural Education	
TCLD	6231	Cultural Diversity and ESOL/TCLD	
TCLD	6233	Applied Linguistics for ESOL/TCLD	18
TCLD	6235	Methods for Teaching ESOL/TCLD	
Total Credit Hours			18

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Teaching Culturally and Linguistically Diverse Students M.Ed.

Degree Requirements: 39 Credit Hours

Certificate Upgrade Information: An educator who holds a level four Georgia teaching certificate in ESOL will qualify for a level five certificate upgrade upon successful completion of all program requirements. (See catalog section on Certification).

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution or the equivalent at a recognized international university (see Graduate Admissions for international students).
2. Teaching certification is not required for admission. A teaching certificate and/or professional experience working with historically underrepresented populations is strongly preferred. Candidates who possess a Georgia level four teaching certificate in an eligible concentration area will qualify for a level five certificate upgrade upon program completion. This program will not certify candidates to teach in the state of Georgia.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Submit a completed "Disclosure and Affirmation Form" that addresses misconduct disclosure, the Code of Ethics for Educators, and tort liability.
5. Submit a personal statement of purpose, not to exceed 250 words, that identifies the applicant's career goals, professional aspirations, and experiences or goals for working with historically underrepresented populations .

Provisional Admission

Applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional degree candidates must earn grades of "B" or higher in their first nine (9) hours of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Additional Information

- If you are a Georgia certified teacher or administrator and choose the TCLD/ESOL track for US contexts, you will earn your ESOL endorsement and become eligible for a level 5 certificate upgrade upon successful program completion.
- If you are a Georgia certified teacher or administrator who has already earned an ESOL endorsement, you can attempt Prior Learning Assessments in order to potentially have 6 credits applied to this degree program. You will also become eligible for a level 5 certificate upgrade upon successful program completion.

Program of Study

	Credit Hours
Professional Education Core Requirements	6
EDUF 7130 Learning Theories and Applications	
EDUR 7130 Educational Research	
M.Ed. in TCLD Specific Requirements	24
EDUF 7235 Multicultural Education ²	
or EDUF 8631 Foundations for Social Justice Education	
READ 7432 Teaching Literacy with English Learners	
or READ 8530 Critical Issues in Literacy Education with Diverse Populations	
TCLD 6233 Applied Linguistics for ESOL/TCLD ^{1,2}	
TCLD 6235 Methods for Teaching ESOL/TCLD ^{1,2,3}	
TCLD 7334 Language Policy and Politics in Education	
TCLD 7336 Globalization, Immigration, and Teaching ELLs	

TCLD 7338	Special Education-ELL Interface & Assessment	
TCLD 8538	Advanced ELL & Bilingual Teaching Methods	
Emphasis Area		9
Select one of the following emphasis areas:		
TCLD/ESOL Emphasis Area (US contexts)		
EDUF 7230	Understanding Diverse Students through Case Study ²	
EDUF 8233	Regional Issues In Multicultural Education ²	
TCLD 6231	Cultural Diversity and ESOL/TCLD ^{1,2,3}	
Applied Linguistics/TESOL Emphasis Area (International contexts)		
LING 5133G	English Grammar for ESL/EFL Teachers ³	
LING 5233G	Teaching English Internationally ³	
LING 6131	Teaching ESL/EFL Pronunciation and Speaking ³	
Total Credit Hours		39

- ¹ These courses are part of the ESOL Endorsement intended as an add-on to a Georgia Teaching Certificate.
- ² These courses are part of the TCLD Graduate certificate intended for educators working in USA contexts.
- ³ These courses are part of the Applied Linguistics/TESOL Graduate certificate intended for educators working in English as a Foreign Language in international contexts outside the USA.

Other Program Requirement

Successfully complete assessments identified at each program transition point.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Teaching M.A.T. (Concentration in Health and Physical Education P-12) (Online)

Degree Requirements: 36 Hours

Program Intent and Admission Requirements:

The Master of Arts in Teaching (MAT) leads to initial teaching certification in Health and Physical Education (P-12) and a master's degree for those persons who hold a bachelor's degree from a regionally accredited institution.

The program of study is designed to meet all content and methods requirements for initial certification in 36 credit hours.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
3. Submit passing scores on the GACE Program Admission Assessment or be exempt by acceptable SAT, ACT, or GRE scores.
4. Submit a passing score on the state-required Georgia Educator Ethics Assessment.
5. Qualify for a Georgia Pre-Service certificate or Provisional certificate (see Certification section in the Graduate Catalog).
6. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
7. Acknowledge "Disclosure and Affirmation" statements that address the Code of Ethics for Educators and the need for tort liability insurance.
8. International applicants and U.S. citizens whose native language is not English must demonstrate competence in English. Applicants must take and pass the Test of English as a Foreign Language (TOEFL). The official TOEFL score may not be more than two years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus prior to admission to the program.
9. If an applicant was previously enrolled in an initial teacher preparation program, an interview must be completed with the Program Coordinator prior to admission to the program.

- MAT in Health and Physical Education is a fully online program and will have an enrollment maximum of 15 candidates due to program resources.
- Candidates who are teaching full-time on a Provisional certificate may apply for the level five Induction Certificate upon successful completion of all program requirements. Candidates who are not teaching during the program may apply for a level 5 Induction Certificate.
- All new MAT candidates must attend an online orientation meeting in order to meet registration requirements.

OTHER PROGRAM REQUIREMENTS

- Candidates must successfully complete assessments identified at each program transition point.
- Candidates are required to complete supervised field experiences in Georgia schools to meet certification requirements.
- Candidates must successfully complete all field experiences.
- Candidates must pass GACE content test and Georgia Educator Ethics Assessment (if not required for program admission) to enroll in ESED 6796 or ESED 6799.
- Candidates must earn a grade of B or higher in KINS 6234: Adapted Physical Education Methods.
- Candidates enrolled in a Master of Arts in Teaching program can only accept employment in a Georgia school that meets the GaPSC requirements.
- Candidates enrolled in a Master of Arts in Teaching program and are hired by a school system as a teacher of record, must be teaching in the content area of the certification they are seeking.
- Candidates enrolled in a Master of Arts in Teaching program and hired by a school system as a teacher of record must be teaching full-time in the content area of the of the certification they are seeking during their semester of clinical practice/internship.

Program of Study

Required Courses	Credit Hours
	36
EDUR 7130 Educational Research	
ESED 6796 Student Teaching in P-12 Education ¹ or ESED 6799 Supervised Internship	
HLTH 6133 School Health Education Methods	
KINS 6134 Elementary Physical Education Methods	
KINS 6135 Physical Education Scientific Topics	
KINS 6136 Physical Activities in P-12 Physical Education	
KINS 6234 Adapted Physical Education Methods	
KINS 6334 Secondary Physical Education Methods	
KINS 7535 Fitness and Wellness Education	
KINS 7536 Assessment and Technology in Physical Education	
KINS 7735 Physical Education Field Experience	
Total Credit Hours	36

¹ Student Teaching in P-12 Education (ESED 6796) (for candidates who are not teaching full time); Supervised Internship (ESED 6799) (for candidates who are teaching full time on a Provisional Certificate)

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

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Teaching M.A.T. (Concentration in Middle Grades Education Grades 4-8) (Online)

Degree Requirements: 42 Hours

Program Intent and Admission Requirements:

The Master of Arts in Teaching (MAT) leads to initial teaching certification in Middle Grades Education (4-8) and a master's degree for those persons who hold a bachelor's degree from a regionally accredited institution.

Candidates must complete one teaching concentration from language arts, science, social studies, or mathematics.

A transcript evaluation by the College of Education's Graduate Academic Services Center is required. Prerequisite content course work may be

required prior to admission into the program based on the transcript evaluation.

This is a fully online program. Candidates are required to complete supervised field experiences in Georgia schools to meet certification requirements.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Complete specified prerequisite content coursework for one or more associated content areas.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Present a total adjusted GPA of 2.75 or higher on content courses in the selected area of certification.
5. Submit passing scores on the GACE Program Admission Assessment or be exempt by acceptable SAT, ACT, GRE, or GACE Basic Skills scores.
6. Submit a passing score on the GACE Content Assessment in the area(s) for which one is seeking certification.
7. Submit a passing score on the state-required Georgia Educator Ethics Assessment.
8. Qualify for a Georgia Pre-Service certificate OR Provisional certificate (see Certification section in the Graduate Catalog).
9. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
10. Acknowledge "Disclosure and Affirmation" statements that address the Code of Ethics for Educators and the need for tort liability insurance.
11. If an applicant was previously enrolled in an initial teacher preparation program, an interview must be completed with the Program Coordinator prior to admission to the program.

Other Program Requirements

- Preference will be given to applicants who are employed by a school system and seeking certification OR, if not employed, living within a 70-mile radius of Georgia Southern University which allows for placements in local school systems. College of Education faculty will facilitate classroom observations, etc.
- Per Georgia Professional Standards Commission Rule, candidates must earn a minimum grade of "B" in SPED 6130.
- Candidates are required to complete supervised field experiences in Georgia schools to meet certification requirements.
- Must successfully complete assessments identified at each program transition point.

Program of Study

	Credit Hours
Step One: The Following Courses are Prerequisites to Steps Two and Three (taken concurrently) ¹	9
MSED 6120 Introduction to the Middle and Secondary School	
MSED 6122 Curriculum and Instruction I	
MSED 6123 Middle and Secondary School Practicum	
Step Two: Middle Grades Education Block (taken concurrently)	9
MSED 6131 Curriculum and Instruction II	

MSED 6738 Supervised Practicum in Middle and Secondary Education (Candidates who are currently teaching full-time must have an Induction Pathway 4 certificate.)

Select one of the following appropriate subject-specific methods courses in one's primary concentration area:

MSED 6237	Science Methods
MSED 6337	Language Arts Methods
MSED 6437	Social Science Methods
MSED 6537	Mathematics Methods

Step Three: Additional Course Work Required for Initial Certification 9

MSED 6330	Instructional Assessment for Diverse Learners
READ 7330	Literacy in the Content Areas
SPED 6130	Introduction to Special Education

Step Four: Student Teaching/Supervised Internship: (See Admission to Student Teaching/Internship section in Graduate Catalog) 9

MSED 7635	MAT Seminar in Middle Grades and Secondary Education
MSED 6799	Student Teaching Internship in Middle Grades and Secondary Education (Candidates who are currently teaching full-time must have a Provisional Certificate)

Upon successful completion of Steps 1-4, and successful completion of the state-required Educator Ethics Assessment (if not completed for program admission), candidates who are teaching full-time on a Provisional certificate may apply for a level 4 Induction Certificate.

Step Five: Additional Course Work Required for Completion of the MAT Degree 6

EDUR 7130	Educational Research
MSED 7130	Middle and Secondary School Colloquium

Upon successful completion of Step 5 and all other program and certification requirements listed above, candidates may apply for a level 5 Induction Certificate.

Total Credit Hours 42

¹ The steps represent one way to progress through the program but other schedules are possible.

Advisement

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Teaching M.A.T. (Concentration in Secondary Education Grades 6-12) (Online)

Degree Requirements: 39 Hours

Program Intent and Admission Requirements:

The Master of Arts in Teaching (MAT) leads to initial teaching certification in Secondary Education (6-12) and a master's degree for those persons who hold a bachelor's degree in English, mathematics, history, geography, economics, political science, chemistry, biology, geology, physics, or related field from a regionally accredited institution.

A transcript evaluation by the College of Education's Graduate Academic Services Center is required. Prerequisite content course work may be required prior to admission into the program based on the transcript evaluation.

This is a fully online program. Candidates are required to complete supervised field experiences in Georgia schools to meet certification requirements.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Complete specified prerequisite content coursework for one or more associated content areas.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Present a total adjusted GPA of 2.75 or higher on content courses in the selected area of certification.
5. Submit passing scores on the GACE Program Admission Assessment or be exempt by acceptable SAT, ACT, GRE, or GACE Basic Skills scores.
6. Submit a passing score on the GACE Content Assessment in the area(s) for which one is seeking certification.
7. Submit a passing score on the state-required Georgia Educator Ethics Assessment.
8. Qualify for a Georgia Pre-Service certificate or Provisional certificate (see Certification section in the Graduate Catalog)
9. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
10. Acknowledge "Disclosure and Affirmation" statements that address the Code of Ethics for Educators and the need for tort liability insurance.
11. If an applicant was previously enrolled in an initial teacher preparation program, an interview must be completed with the Program Coordinator prior to admission to the program.

Other Program Requirements

- Preference will be given to applicants who are employed by a school system and seeking certification OR, if not employed, living within a 70-mile radius of Georgia Southern University, which allows for placements in local school systems. College of Education faculty will facilitate classroom observations, etc.
- Per Georgia Professional Standards Commission Rule, candidates must earn a minimum grade of "B" in SPED 6130.
- Candidates are required to complete supervised field experiences in Georgia schools to meet certification requirements.

- Must successfully complete assessments identified at each program transition point.

Program of Study

			Credit Hours
Step One: The Following Courses are Prerequisites to Steps Two and Three (taken concurrently) ¹			9
MSED	6120	Introduction to the Middle and Secondary School	
MSED	6122	Curriculum and Instruction I	
MSED	6123	Middle and Secondary School Practicum	
Step Two: Secondary Education Block (taken concurrently)			9
MSED	6131	Curriculum and Instruction II	
MSED	6738	Supervised Practicum in Middle and Secondary Education (Candidates who are currently teaching full-time must have an Induction Pathway 4 certificate)	
Select one of the following appropriate subject-specific courses:			
MSED	6237	Science Methods	
MSED	6337	Language Arts Methods	
MSED	6437	Social Science Methods	
MSED	6537	Mathematics Methods	
Step Three: Additional Course Work Required for Initial Certification			6
MSED	6330	Instructional Assessment for Diverse Learners	
SPED	6130	Introduction to Special Education	
Step Four: Student Teaching/Supervised Internship Semester: (See Admission to Student Teaching/ Internship section in Graduate Catalog)			9
MSED	6799	Student Teaching Internship in Middle Grades and Secondary Education (Candidates who are currently teaching full-time must have a Provisional Certificate.)	
MSED	7635	MAT Seminar in Middle Grades and Secondary Education	
Upon successful completion of steps 1-4, and successful completion of the state-required Educator Ethics Assessment (if not completed for program admission), candidates who are teaching full-time on a Provisional certificate may apply for a level 4 Induction Certificate.			
Step Five: Course Work Required for Completion of the MAT Degree			6
EDUR	7130	Educational Research	
MSED	7130	Middle and Secondary School Colloquium	
Upon successful completion of Step 5 and all other program and certification requirements listed above, candidates may apply for a level 5 Induction Certificate.			
Total Credit Hours			39

¹ The steps represent one way to progress through the program but other schedules are possible.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information

regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Teaching M.A.T. (Concentration in Spanish Education P-12)

Degree Requirements: 33 Hours

Program Intent and Admission Requirements:

The Master of Arts in Teaching (MAT) leads to initial teaching certification in Spanish Education (P-12) and a master's degree for those persons who hold a bachelor's degree from a regionally accredited institution.

The total credit hours for the degree are dependent on previous course work completed in the area of certification. A transcript evaluation by the College of Education's Graduate Academic Services Center is required. Prerequisite content course work, based on the transcript evaluation, must be completed as a non-degree student before admission into the program.

Admission Requirements

Regular Admission

1. Complete requirements for a bachelor's degree from a regionally accredited institution.
2. Present a transcript evaluation by the College of Education's Director of the Graduate Academic Services Center, and completion of a specified prerequisite content course work.
3. Present a cumulative 2.50 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.
4. Present a total adjusted GPA of 2.75 or higher on all teaching field course work.
5. Candidates are not required to take either the MAT or the GRE; rather, they must pass an Oral Proficiency Interview and a Writing Proficiency Test in Spanish at the ACTFL-defined IH or above (tests administered by the Department of World Languages and Cultures).
6. Submit passing scores on the GACE Program Admission Assessment or be exempt by acceptable SAT, ACT, or GRE scores.
7. Submit a passing score on the GACE Content Assessment in the area for which one is seeking certification.
8. Submit a passing score on the state-required Georgia Educator Ethics Assessment.
9. Qualify for a Georgia Pre-Service certificate or Provisional certificate (see Certification section in the Graduate Catalog)
10. Submit a personal statement of purpose, not to exceed 200 words, that identifies the applicant's reasons for pursuing graduate study and how admission into the program relates to the applicant's professional aspirations.
11. Acknowledge "Disclosure and Affirmation" statements that address the Code of Ethics for Educators and the need for tort liability insurance.
12. International applicants and U.S. citizens whose native language is not English must demonstrate competence in English. Applicants must pass an Oral Proficiency Interview and a Writing Proficiency Test in English at the ACTFL-defined IH or above (tests administered by the Department of World Languages and Cultures).

13. If an applicant was previously enrolled in an initial teacher preparation program, an interview must be completed with the Program Coordinator prior to admission to the program.

Prerequisite(s)

	Credit Hours
ITEC 5233 Foundations of Technology-Enabled Learning	3
or ITEC 5233G Foundations of Technology-Enabled Learning	
(The graduate level course (ITEC 5233G) may be taken concurrently with Step One.)	
Total Credit Hours	3

Program of Study

	Credit Hours
Step One - Education and Foreign Language Pedagogy and Supervised Practicum. The following courses are prerequisites to Step Two	
EDUF 7130 Learning Theories and Applications	3
FORL 6431 Foreign Language Methods P-8	3
FORL 6432 Foreign Languages Methods 9-12	3
FORL 6433 Practicum in Foreign Languages	3
SPED 6130 Introduction to Special Education	3
Step Two: Student Teaching/Supervised Internship: See Admission to Student Teaching/Internship section in Graduate Catalog)	
Select one of the following:	6
ESED 6796 Student Teaching in P-12 Education	
ESED 6799 Supervised Internship (Candidates who are currently teaching full-time on a Provisional Certificate enroll)	
Upon successful completion of ESED 6796 or ESED 6799), and successful completion of the state-required Educator Ethics Assessment (if not completed for program admission), candidates who are teaching full-time on a Provisional certificate may apply for a level 4 Induction Certificate.	
Step Three: Additional Course Work Required for Completion of the MAT Degree. These courses may be taken concurrently with Step One	
EDUR 7130 Educational Research	3
SPAN XXXX Graduate level Spanish courses	9
Upon successful completion of Step 3 and all other program and certification requirements listed above, candidates may apply for a level 5 Induction Certificate.	
Total Credit Hours	33

OTHER PROGRAM REQUIREMENTS

- Must successfully complete assessments identified at each program transition point.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.

Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Doctor of Education Programs

The Ed.D. program in Curriculum Studies provides a unique and contemporary approach to doctoral study in curriculum. The program prepares graduates to work directly in the P-12 schools (e.g., master teacher, instructional coordinator, curriculum director) or to enter the professoriate as curriculum scholars. The Curriculum Studies program evaluates applications once per year for summer admission, and admission is competitive. See program's Catalog page for specific information on admission, program of study, and other requirements.

The Ed.D. degree program in Educational Leadership is designed to extend the competence and knowledge base of educational leaders who have been prepared to work in elementary, middle, secondary, and postsecondary educational settings. The program seeks to develop administrators and supervisors who:

1. will become team and community leaders,
2. have developed an informed vision of what educational organizations are and can become,
3. will focus on teaching and learning for an increasingly diverse student group as the mission of the educational organization, and
4. have acquired an initial mastery of the theory and practice of organizational leadership and management in a climate of fiscal and social constraint. See program's catalog page for specific information on admission, program of study, and other requirements.

Continuous Enrollment

A student working for a doctorate must be enrolled at Georgia Southern University during the semester in which the comprehensive/qualifying/candidacy examination is taken and in each subsequent semester, including summer term, following the first dissertation registration, until the degree requirements are met and the dissertation is accepted by the College of Graduate Studies. Should a student not register each semester as required by the College of Graduate Studies continuous enrollment policy, the student will be required to register in thesis or dissertation credit and pay tuition and fees for the missed registration semesters at the beginning of the semester the student resumes his/her study providing the student is eligible to return and resume registration.

A student may request a non-medical Leave of Absence from the degree program. Consult the College of Graduate Studies Academic Appeal website for information: <https://cogs.georgiasouthern.edu/students/forms/graduate-student-academic-appeal/>.

Education Specialist Programs

The Education Specialist (Ed.S.) degree is a unique professional degree for educators that is designed to provide the opportunity to develop a high level of proficiency in the field of study as well as develop research and leadership skills. Programs of study leading to the Ed.S. degree enable students to meet certification or certificate upgrade requirements for the Georgia Professional Standards Commission as specified in Georgia Southern's "approved programs." Upon successful completion of the program, graduates are eligible for the appropriate Level Six Certificate.

Upon admission into the Ed.S. program, the student is responsible for contacting the assigned graduate advisor. Collaboratively an individualized Program of Study should be developed that meets degree requirements and also reflects the student's career goals, educational background, interests, and needs. Upon completion of the Ed.S. degree, graduates are

eligible to apply for the Georgia Level Six Certificate if they possess the Level Five Certificate in the field.

Admission to Ed.S. Programs

Georgia Southern University admits persons who display an educational development and achievement level that are better than average. To this end, admission requirements reflect previous educational orientation, and a judgment of admission or rejection is made by the College. For admission to the College of Graduate Studies to pursue the Education Specialist degree, the applicant should refer to the program page for specific information on admission, program of study, and other requirements.

If program policy allows, applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Endorsements

Endorsement programs are available in the areas of: Autism, English for Speakers of Other Languages (ESOL), Gifted In-Field, Online Teaching and Learning, Teacher Leadership, Reading, Positive Behavior Intervention and Support, Teacher Support and Coaching, and Urban Education. Endorsement programs can be completed as non-degree course work or, as appropriate and with advisor approval, included in a degree program of study. These endorsements may be added to a professional certificate in teaching, service, and leadership fields. See the endorsement programs at the end of the College of Education Graduate Section for specific admissions and course requirements that pertain to each individual program.

Graduate Program Approval and Unit Accreditation

The College of Education offers graduate programs to prepare its students for work in public education, in community agencies, and in higher education. Programs are developed in collaboration with departments across the campus and with professionals in the field of education. The College of Education is accredited by the National Council of Accreditation of Teacher Education, and initial certification programs are approved by the Georgia Professional Standards. The counselor education program is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), and the school psychology program has National Association of School Psychologists (NASP) approval-full (national recognition). All programs are accredited by the Southern Association of Colleges and Schools Commission on Colleges.

Initial Teacher Certification Programs

The College of Education offers the Master of Arts in Teaching (M.A.T.) degree for those seeking initial teacher certification. The M.A.T. is available in Middle Grades Education fields (language arts, mathematics, science, and social studies), Special Education General Curriculum, Elementary Education, Secondary Education fields (biology, broad field science, chemistry, economics, English, history, geography, mathematics, physics, and political science), Health and Physical Education, and a P-12 Education field (Spanish education). Certification programs in Art Education are available at the undergraduate level and graduate non-degree. For Music Education, a certification program is only available at the undergraduate level. (See undergraduate program descriptions in the Undergraduate Catalog (<http://catalog.georgiasouthern.edu/>))

undergraduate/).) Admission to our M.A.T. programs require that applicants have their transcripts evaluated by Georgia Southern University's College of Education Graduate Academic Services Center at the time of application. Applicants must meet all Teacher Education Program (TEP) admission and retention requirements, including an overall GPA of 2.50 or higher on all college coursework attempted, in addition to all other program admission requirements.) See the College of Education's graduate programs section of this catalog for further information on these program options.

Prospective students to the M.A.T. Middle Grades Education or M.A.T. Secondary Education programs who meet application requirements for admission with the exception of the associated GACE Content Assessment may qualify for admission under the Non-Degree Teaching/Service/Leadership classification. This allows these candidates to take up to 18 credit hours toward the M.A.T. degree program. Within the first 18 credit hours, these students must pass the remaining GACE Content Assessment, submit a new application for admission to the M.A.T. degree program, and gain admission in order to continue to progress toward program completion and certification.

Prospective students should contact the College of Education Graduate Academic Services Center. For specific information and questions please email the Graduate Academic Services Center, gasc@georgiasouthern.edu.

Advisement

Graduate students are advised by a professional staff advisor or faculty member from their program. Graduate students should reach out to their graduate program director or the Graduate Academic Services Center for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can contact the Graduate Academic Services Center for more information about their program director or advisor. Phone: 912-478-1447
Email: gasc@georgiasouthern.edu

Internships

Some graduate programs (in addition to initial teacher certification programs) require extensive field experience through internships or practicums as a program requirement. While the process will vary by program, students should coordinate with their advisor to arrange the internship/practicum experience in cooperation with local school systems/agencies and, if necessary, the Office of Field Experience and Clinical Practice. Students who are required to participate in internships, practicums, or other field experiences as part of their graduate program may be required to complete a criminal background check. Students will complete the background check during the application for program admission if required by the program or prior to the specific field experience as directed by the instructor. Background checks are valid for two years.

Master of Education Programs

Master of Education (M.Ed.) degree programs are offered in twelve areas of study. A student admitted to the College of Graduate Studies as a prospective candidate for the M.Ed. degree must satisfactorily complete a planned Program of Study including a minimum of 6-9 credit hours in the professional education core and a minimum of 15 credit hours in the content field of the major. Since programs of study in all certification areas are planned to enable students to meet the requirements of the Georgia Professional Standards Commission as specified in Georgia Southern's "approved programs," it is critical that students contact their advisors

early in their course work to plan an appropriate Program of Study. The development of the Program of Study expedites the registration process and ensures that all course work may be applied toward fulfilling degree requirements. Upon successful completion of the Program of Study, graduates in certification programs will be recommended for the appropriate Georgia Level Five Certificate.

M.Ed. programs of study must include at least 50% of level 6000, 7000 and 8000 courses. Students and their advisors are strongly encouraged not to include more than one 5000G-5999G level course in the Program of Study.

Admission to M.Ed. Programs

Regular Admission

For regular admission to the College of Graduate Studies to pursue the Master of Education degree, the applicant should refer to the specific admission requirements, program of study, and other requirements on the specific program's catalog page.

Provisional Admission

If a program policy allows, applicants may be approved for provisional admission based on the quality of the admission material presented. Provisional students must earn grades of "B" or higher in their first nine (9) credits of course work after admission and meet any other stipulations outlined by the department to be converted to regular status.

Non-Degree Graduate Studies

For non-degree admission to graduate education programs for those interested in professional development, certification renewal, or an endorsement to an existing certificate, students must be admitted to graduate study as a non-degree student. For non-degree admission to the College of Graduate Studies, the applicant must:

1. Possess a bachelor's degree from a regionally accredited institution.
2. Possess or be eligible for certification as prescribed by the specific program.
3. Present a cumulative 2.5 (4.0 scale) grade point average or higher on all undergraduate and graduate work combined.

Note: Initial certification in non-teaching fields such as Counselor Education and Instructional Technology require completion of the master's degree; Educational Leadership and School Psychology require completion of the education specialist's degree. Initial certification in Counselor Education and School Psychology cannot be completed as non-degree study. To pursue certification in Educational Leadership or Instructional Technology as a non-degree student, the applicant should check the individual program page.

Online and Off-Campus Graduate Offerings

Multiple education courses and graduate programs are offered in a 100% online format. For specific information about which courses are offered online in a particular term, please contact the program director or the Graduate Academic Services Center at gasc@georgiasouthern.edu. For admission criteria to one of the College of Education's online programs, please refer to the catalog page for that specific program.

Policies and Procedures for Field Experiences, Internships and Clinical Experience - Initial Teacher Preparation

Field Experience Placement Policies

- Field placements are critical to the preparation of candidates in our teacher education programs. Georgia Southern University and its Partner Schools place great importance on field experiences.
- All field experiences are coordinated between the Office of Field Experience and Clinical Practice; academic programs; and Partner Schools.
- An attempt will be made to place two or more teacher candidates in a school. An exception to this clustering policy could be rendered by a program or department. This exception would be a result of specialization required of the clinical supervisor. (This does not apply to candidates in an online Master of Arts in Teaching program).
- One geographical area will serve Georgia Southern's teacher candidate population. The primary area is approximately 70 miles from each Georgia Southern campus (this includes Teachers of Record enrolled in non-online MAT programs). Candidates can expect the maximum one-way travel of 70 miles or less from Georgia Southern to a school placement. (This policy does not apply to candidates in a fully online Master of Arts in Teaching program).
- All field placements and clinical practice assignments are identified and assigned by the Office of Field Experience and Clinical Practice in conjunction with the program director/coordinator. Placements are not negotiable.
- Teacher candidates seldom receive a field placement at a school site where they have had a previous field experience placement. This policy provides candidates with diversity in placements and teaching experiences. The exception to this policy is year-long placements during the senior year.
- Teacher candidates are not placed in schools where they have attended, relatives are employed, or relatives are enrolled as students.
- Teacher candidates that have an identified disability requiring accommodations during a field experience or clinical practice must consult with the Student Accessibility Resource Center the semester prior to the field experience to discuss accommodations. All teacher candidates must successfully demonstrate their ability to meet, with or without accommodations, the standards and expectations of the teaching profession.
- Teacher candidates are limited to enrolling in a maximum of 12 semester hours during the clinical practice semester. The exception to this is when a candidate is enrolled in TCLD 5235 and/or COED 3160.
- Candidates enrolled in a Master of Arts in Teaching program can only accept employment in a Georgia school that meets the GaPSC requirements. See rule 505-3-.01, section 4 (iv).
- Candidates enrolled in a Master of Arts in Teaching program and hired by a school system as a Teacher of Record must be teaching in the content area of the certification they are seeking.
- Candidates enrolled in a Master of Arts in Teaching program and hired by a school system as a Teacher of Record must be teaching full time

in the content area of the certification they are seeking during their semester of clinical practice/internship.

Intervention Policies for Field Experiences, Student Teaching, and Internship

- Candidates are allowed a maximum of two (2) Professional Support plans (A/B) (each for different areas of difficulty) per field experience, or clinical practice.
- Candidates are allowed a maximum of one (1) Probationary Status per field experience, or clinical practice.
- Candidates may repeat each field experience, or clinical practice one (1) time.
- Withdrawing without academic penalty, withdrawing failing, or withdrawing at the recommendation of the program faculty from a field experience, or clinical practice will be considered one (1) attempt at that field experience.
- When school personnel request that a candidate be removed from the school for performance or professional reasons the placement will end immediately. A new field placement will rarely be identified until the following semester.

Structure

The College of Education has a variety of centers and offices that provide specific services to its students, faculty, and public schools:

Within the **Office of Curriculum, Instruction and Initial Educator Preparation**, the Associate Dean coordinates all activities related to curriculum and instruction for undergraduate and graduate education, initial educator preparation and certification, state and national reporting, CAEP accreditation, Georgia Professional Standards Commission (GaPSC) program approval, College of Education and program assessment, and Educator Preparation Committee activities. The Director of Field and Clinical Experiences and the Field Experience Coordinator facilitate all field experiences and coordinate clinical practice in partner schools in collaboration with the various departments, public schools (Clinical Associates and Clinical Supervisors) and international partners. The Certification Officer serves as a liaison between the College and the GaPSC dealing with certification matters.

The **Associate Dean of Administration and Faculty Affairs** coordinates enrollment management services for students as well as research and grant activity for the College in collaboration with the various departments and campus offices.

With respect to student services, the Associate Dean coordinates with the Provost's Office to recruit new students and provide advising to undergraduate education majors through the **College of Education Advisement Center**. Within the College, the Associate Dean oversees the Graduate Academic Services Center to provide a comprehensive graduate experience beginning with recruiting prospective graduate students to providing student support for College of Education graduate students from program entry through graduation. The staff provides direct advisement for graduate students in several programs and provides pre-admission advisement for students in the College.

With respect to research and grant activity, the Associate Dean coordinates with the **University Office of Research Services and Sponsored Programs** to provide guidance and support for student capstone research projects, faculty research and scholarship, grant submission, and grant management.

The **Assistant Dean of Partnerships and Outreach** collaborates with school systems and community partners to develop mutually beneficial

relationships that enhance education across the region. We work to identify needs and assets among our partners and align them with faculty expertise and research opportunities. We also connect with community organizations and P-12 students to showcase their educational contributions and successes.

The **Instructional Support and Resources Center (ISRC)** provides computer laboratories, portable multimedia equipment, and a variety of material resources and equipment for students and faculty. The ISRC also provides technical and instructional assistance to College of Education faculty, staff, and students.

Student Teaching/Internship Placements

All student teachers/interns are placed within an approximate 70-mile radius of each Georgia Southern campus.

International student teaching exchanges may be available. Information can be obtained from the Office of Field Experience and Clinical Practice.

Teacher Certification Programs

The College of Education offers the Master of Arts in Teaching (M.A.T.) degree or a similar graduate non-degree program option for those interested in acquiring initial teacher certification in the fields of Middle Grades Education, Special Education, Secondary Education fields (biology, broad field science, chemistry, economics, English, history, geography, mathematics, physics, and political science), and Spanish education. Concentrations are also offered in Elementary Education and Health and Physical Education.

Master of Arts in Teaching

The College of Education offers the Master of Arts in Teaching (M.A.T.) degree for those who hold bachelor's degrees in a related teaching field. The M.A.T. is available in Middle Grades Education, Special Education, Elementary Education and Secondary Education fields (biology, broad field science, chemistry, economics, history, geography, mathematics, physics, and political science). Health and Physical Education, and Spanish Education. Those who hold a bachelor's degree and are interested in Elementary or Health and Physical Education, another certification option is to complete program requirements at the undergraduate level. Certification programs in Art Education are available at the undergraduate level and graduate non-degree. For Music Education, a certification program is only available at the undergraduate level.

Admission to M.A.T. Program

Admission to our M.A.T. programs require that applicants have their transcripts evaluated by Georgia Southern University's College of Education Graduate Academic Services Center at the time of application.

Applicants must meet all Teacher Education Program (TEP) admission and retention requirements, including an overall GPA of 2.50 or higher on all college coursework attempted, in addition to all other program admission requirements.

Non-Degree Initial Teacher Certification Programs

Non-degree initial certification programs are available in some teaching fields. Check with the program director for specific details in the certification field desired. The non-degree program option is designed for those who do not wish to pursue a master's degree. Non-degree initial certification students must be admitted for graduate study as a Non-degree Teaching/Service/Leadership student (test scores are not

required). All students seeking initial teaching certification must meet all TEP admission requirements. A transcript evaluation by the College of Education Graduate Academic Services Center identifies the program of study required in order to meet initial certification requirements for the desired field.

Note: Initial certification in non-teaching fields such as Counselor Education, Educational Leadership, and Instructional Technology require completion of the master's degree; School Psychology requires completion of the Education Specialist's degree. Initial certification in Counselor Education and School Psychology cannot be completed as non-degree study. To pursue certifications in either Instructional Technology or in Educational Leadership as a non-degree student, the applicant should check the individual program page.

Allen E. Paulson College of Engineering and Computing

The Allen E. Paulson College of Engineering and Computing at Georgia Southern University offers undergraduate and graduate degree programs in six academic departments. The Bachelor of Science degree programs include Civil Engineering, Computer Engineering, Computer Science, Construction, Construction Engineering, Electrical Engineering, Information Technology and BIT Online, Manufacturing Engineering and Mechanical Engineering. The Regents' Engineering Pathway (REP) Program is also offered as an option for undergraduate students to earn an engineering degree at Georgia Southern or one of four other Georgia institutions that offer engineering degrees.

At the graduate level, the College offers Master of Science degree programs in Civil Engineering, Computer Science, Electrical Engineering, Information Technology, Mechanical Engineering, and Applied Engineering (Advanced Manufacturing Engineering and Engineering Management). Thesis or non-thesis tracks are available within each program. For each of these MS degree programs, the College offers the Accelerated Bachelors to Masters (ABM) option. The ABM provides a pathway to earn both a BS and a MS degree in five years, all of which are currently offered only on the Statesboro campus.

The MS in Applied Engineering degree program has two concentrations from which to choose: Advanced Manufacturing Engineering and Engineering Management. The program is under the purview of the Department of Manufacturing Engineering, and is designed to give students the hands-on experience they will need to be problem-solvers and leaders in consumer, commercial and industrial engineering fields.

The MS in Civil Engineering degree program provides students with industry-ready skills coupled with innovative and cutting-edge research experience in their field of interest. The program serves both full-time students preparing for a career as a civil engineering professional, and currently employed professionals seeking an advanced education to augment their existing skills and background. The MSCE at Georgia Southern comprises technical coursework and a thesis or non-thesis tracks in five main areas:

- Construction Engineering
- Environmental/Water Resources Engineering
- Transportation-Pavement/Geotechnical Engineering
- Structural Engineering
- Surveying-Geomatics

The MS in Computer Science degree program is designed as a hybrid program to allow those with degrees in traditional, non-computing fields to earn a master's degree in computer science. The Georgia Southern MSCS program offers the only Data Mining and Data Warehousing concentrations in Georgia — one of only a handful of such master's degrees in the world. The program is designed to prepare its students for a

career in knowledge-based data systems, including software development, computer systems analysis, computer systems engineering, network engineering, database design, computer programming and software systems development.

The MS in Electrical Engineering degree program is designed to meet the global need for engineers who possess leadership skills but also applications experience in consumer, commercial and industrial fields.

MSEE graduates are innovators prepared to become responsible, strategic leaders and exceptional engineering professionals. Courses include analytical math and experimental research in areas such as autonomous systems, optical communications, wireless power, antennas and propagation, and energy harvesting. The program serves both the full-time students preparing for careers in Electrical Engineering, as well as currently employed Electrical Engineering professionals seeking advanced education to augment their existing skills and background.

The MS in Information Technology degree program at Georgia Southern integrates state-of-the-art technology and interdisciplinary and conceptual science with hands-on, operational skills preparation. Students gain valuable knowledge and are placed in a unique position to make an immediate impact on their career and their employers. The MSIT program embraces the constantly changing IT industry, prepares graduates to analyze and manage IT networks and systems. Courses include IT management, data analytics, networking, data management and storage, and network security. Research conducted through the thesis or independent study project provides opportunity for individualized in-depth study within the concentration.

The MS in Mechanical Engineering degree program provides focused and specialized educational opportunities beyond the BS degree. Students select coursework concentrations in Energy Science, Mechatronics, and general Mechanical Engineering, while conducting in-depth research. The MSME degree prepares engineers to accept greater project responsibility while advancing more quickly in their chosen careers.

Vision

The Allen E. Paulson College of Engineering and Computing will be a recognized leader in student-centric experiential learning, applied research in engineering and computing, and service to our communities.

Mission

The Allen E. Paulson College of Engineering and Computing is to advance the engineering and computing disciplines, ensure student success, and support regional economic development. This will be accomplished by promoting excellence in faculty teaching and scholarship, fostering experiential learning, and partnering with regional stakeholders.

College Structure

- Department of Civil Engineering and Construction (p. 144)
- Department of Computer Science (p. 147)
- Department of Electrical and Computer Engineering (p. 150)
- Department of Information Technology (p. 153)
- Department of Manufacturing Engineering (p. 156)
- Department of Mechanical Engineering (p. 162)

Experiential Learning Opportunities - Internships

Internships are supervised experiential learning programs, designed to allow students an opportunity to receive practical experience in their chosen field of study. Internships provide rich professional development content and connect students with relevant experiences that enhance their graduate education. Not only do they prepare students for their next steps after graduation, whether that involves a full-time job or furthering their education, internships can provide a means for students to financially

support themselves and fund their education. Students should contact Dr. Reinhold Gerbsch, Director of Industrial Relations in the Allen E. Paulson College of Engineering and Computing, Office of the Dean for further information.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu.

Programs

Master's

- Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Non-Thesis) (p. 157)
- Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Thesis) (p. 158)
- Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Non-Thesis) (p. 159)
- Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Thesis) (p. 161)
- Civil Engineering M.S.C.E. (Non-Thesis) (p. 144)
- Civil Engineering M.S.C.E. (Thesis) (p. 145)
- Computer Science M.S. (Hybrid) (Non-Thesis) (p. 147)
- Computer Science M.S. (Hybrid) (Thesis) (p. 149)
- Electrical Engineering M.S.E.E. (Non-Thesis) (p. 150)
- Electrical Engineering M.S.E.E. (Thesis) (p. 152)
- Information Technology M.S.I.T. (Non-Thesis) (p. 153)
- Information Technology M.S.I.T. (Thesis) (p. 155)
- Mechanical Engineering M.S.M.E. (Non-Thesis) (p. 162)
- Mechanical Engineering M.S.M.E. (Thesis) (p. 165)

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Department of Civil Engineering and Construction

The Master of Science in Civil Engineering degree program (MSCE) at Georgia Southern prepares students with the advanced technical knowledge and skills needed to propel your career in the vital area of infrastructure.

The program serves both full-time students preparing for careers as civil engineering professionals, and currently employed professionals seeking an advanced education to augment their existing skills and backgrounds. The MSCE degree program consists of technical coursework and a thesis or non-thesis track in five main areas:

- Construction Engineering
- Environmental/Water Resources Engineering
- Transportation-Pavement/Geotechnical Engineering
- Structural Engineering
- Surveying-Geomatics

Prospective students will usually have earned a previous degree in civil engineering, construction engineering, construction (management), or environmental engineering.

Graduate students are advised by their graduate program director:
Dr. Francisco Cubas-Suazo
912-478-2822
fcubassuazo@georgiasouthern.edu

The Paulson College of Engineering & Computing also has a graduate advisor to assist all its graduate students:
Erica Colbert
912-478-3007
ercolbert@georgiasouthern.edu

Programs

Master's

- Civil Engineering M.S.C.E. (Non-Thesis) (p. 144)
- Civil Engineering M.S.C.E. (Thesis) (p. 145)

Civil Engineering M.S.C.E. (Non-Thesis)

Degree Requirements: 30 Credit Hours

Total Hours: 27 hours of coursework with 3 hours Master's Project

Admission Requirements

Regular Admission

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in Civil Engineering or closely related field of study.
3. A 3.0 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet College of Graduate Studies English Proficiency requirements.

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Civil Engineering Graduate Coordinator or department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

A minimum of 50% of courses for the Master of Science in Civil Engineering degree must be taken at or above the 6000 level.

Specializations

The Master of Science in Civil Engineering degree program provides specializations in Construction Engineering, Environmental/Water Resources Engineering, Transportation-Pavement/Geotechnical Engineering, Structural Engineering and Surveying-Geomatics.

Program of Study

A minimum of 30 semester hours of course work, none of which was used to satisfy requirements for a previous degree, are required. The student's faculty advisor, the Civil Engineering & Construction Department Chair and the Associate Dean for Students, Curriculum & Advisement must approve the program of study. Certain specialization groups within the department have specific course requirements, so students are advised to speak with their advisor to ensure degree requirements are satisfied.

Students who are not writing a thesis must take at least 18 hours of coursework in their major field. The major field is defined as the student's area of specialization.

Non-Thesis Track, 30 Credit Hours

	Credit Hours
Core Requirements	6
CENG 7031 Research Methods for Civil Engineers and Construction	
CENG 7891 Master's Project	
Restricted Electives	24
Select 24 credit hours of approved Electives at or above the 5000G level	
Other Non-Thesis Track Requirements	
Comprehensive Exam	
Total Credit Hours	30

Accelerated Bachelor's to Master's Degree (ABM) Degree Requirements: 30 Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSCE-ABM** program combines **130** hours from the **BSCE program** and **30** hours from the **MSCE program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSCE-ABM** students may share a maximum of **9** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to the Master of Science in Civil Engineering (ABM-MSCE) degree program the student must:

1. Be enrolled as a current Georgia Southern undergraduate student majoring in Civil Engineering (CE).
2. Have completed at least 25 credit hours of undergraduate coursework in the CE discipline including: MATH 1441, MATH 2242, PHYS 2211K, PHYS 2212K and CENG 1133.
3. Have a 3.0 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours Non-Thesis

1. A student in the ABM program will be allowed to use up to 9 credits of CENG 5000G level courses offered within the Civil Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BSCE and MSCE degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Civil Engineering degree must be taken at or above the 6000 level.

	Credit Hours
Core Requirements	6
CENG 7031 Research Methods for Civil Engineers and Construction	
CENG 7891 Master's Project	
Restricted Electives	24
Select 24 credit hours of approved Electives at or above the 5000G level	
Other Non-Thesis Track Requirements	
Comprehensive Exam	
Total Credit Hours	30

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.

Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Civil Engineering M.S.C.E. (Thesis)

Degree Requirements: 30 Credit Hours

Total Hours: 24 hours of coursework with 6 hours Master's Thesis

Admission Requirements

Regular Admission

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in Civil Engineering, or a closely related field of study.
3. A 3.0 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet College of Graduate Studies English Proficiency requirements.

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Civil Engineering Graduate Coordinator or department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

A minimum of 50% of courses for the Master of Science in Civil Engineering degree must be taken at or above the 6000 level.

Specializations

The Master of Science in Civil Engineering degree program provides specializations in Construction Engineering, Environmental/Water Resources Engineering, Transportation-Pavement/Geotechnical Engineering, Structural Engineering and Surveying-Geomatics.

Program of Study

A minimum of 30 semester hours of course work, none of which was used to satisfy requirements for a previous degree, are required. The student's faculty advisor, the Civil Engineering & Construction Department Chair and the Associate Dean for Students, Curriculum & Advisement must approve the program of study. Certain specialization groups within the department have specific course requirements, so students are advised to speak with their advisor to ensure degree requirements are satisfied.

Students writing a thesis must take at least 12 hours of coursework in their major field. The major field is defined as the student's area of specialization.

Thesis Track, 30 Credit Hours

	Credit Hours
Core Requirements	9
CENG 7031 Research Methods for Civil Engineers and Construction	
CENG 7999 Thesis	

Restricted Electives	21
Select 21 credit hours of approved Electives at or above the 5000G level	
Other Thesis Track Requirements	
Comprehensive Exam	
Total Credit Hours	30

Thesis

Each candidate for the Master of Science in Civil Engineering Thesis Track degree must complete a thesis on a subject approved by the graduate thesis committee. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has responsibility for an intensive and rigorous criticism of the thesis and a third member of the thesis committee has the responsibility of an "editorial reader." Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Civil Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the final thesis submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.

See the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing (latest version at the COGS Electronic Theses and Dissertation website).

Accelerated Bachelor's to Master's Degree (ABM) Degree Requirements: 30 Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSCE-ABM** program combines **130** hours from the **BSCE program** and **30** hours from the **MSCE program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSCE-ABM** students may share a maximum of **9** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to the Master of Science in Civil Engineering (ABM-MSCE) degree program the student must:

1. Be enrolled as a current Georgia Southern undergraduate student majoring in Civil Engineering (CE).
2. Have completed at least 25 credit hours of undergraduate coursework in the CE discipline including: MATH 1441, MATH 2242, PHYS 2211K, PHYS 2212K and CENG 1133.
3. Have a 3.0 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours Non-Thesis

1. A student in the ABM program will be allowed to use up to 9 credits of CENG 5000G level courses offered within the Civil Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BSCE and MSCE degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Civil Engineering degree must be taken at or above the 6000 level.

	Credit Hours
Core Requirements	9
CENG 7031 Research Methods for Civil Engineers and Construction	
CENG 7999 Thesis	
Restricted Electives	21
Select 21 credit hours of approved Electives at or above the 5000G level	
Other Thesis Track Requirements	
Comprehensive Exam	
Total Credit Hours	30

Thesis

Each candidate for the Master of Science in Civil Engineering Thesis Track degree must complete a thesis on a subject approved by the graduate thesis committee. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has responsibility for an intensive and rigorous criticism of the thesis and a third member of the thesis committee has the responsibility of an "editorial reader." Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Civil Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the final thesis submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.

See the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing (latest version at the COGS Electronic Theses and Dissertation website).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Computer Science

The Master of Science in Computer Science (MSCS) degree program is structured specifically to provide a rigorous master's program for people currently working in computing, as well as for those who wish to enter the field or are current undergraduate students interested in advancing their education. This hybrid program prepares students in the area of data and knowledge systems. With a concentration in the high-demand, competitive fields of data mining and data warehousing, the Georgia Southern MSCS program is one of only a handful of such master's degree programs in the world. Both thesis and non-thesis options are available in the MSCS program.

Programs

Master's

- Computer Science M.S. (Hybrid) (Non-Thesis) (p. 147)
- Computer Science M.S. (Hybrid) (Thesis) (p. 149)

Computer Science M.S. (Hybrid) (Non-Thesis)

Degree Requirements: 30 Credit Hours

Admission Requirements

Regular Admission

Domestic Candidates:

1. Bachelor of Science in Computer Science or in a related field (Computer Engineering, Information Technology, Information Systems, Software Engineering, etc.) from an accredited program OR Bachelor of Science in a non-computing field with at least two years of relevant professional experience in computing.
2. Have a minimum cumulative GPA of 2.5/4.0 or its equivalent.
3. Submit a General GRE score.

International Candidates

1. Bachelor of Science in Computer Science or in a related field (for example, Computer Engineering, Information Technology, Information Systems, Software Engineering, etc.)
2. Have a cumulative GPA of 3.0/4.0 or equivalent.
3. Submit a General GRE score.
4. Submit a minimum TOEFL score of 80 (internet-based). The TOEFL will be waived for international applicants who have graduated from a U.S. College or University.

Provisional Admission

Applicants who meet most (but not all) of the regular admission requirements may be admitted on a Provisional basis. Applicants granted Provisional admission must earn grades of "B" or higher in the courses taken under the Provisional admission status. Any other conditions of Provisional admission will be stated in the admission letter. Applicants with such admission status may take graduate-level courses counting toward the M.S. degree requirements. It is every student's responsibility to satisfy his or her conditions of admission as soon as possible after acceptance. Prerequisites for provisionally admitted students consist of the following graduate courses:

Requirements	Credit Hours
CSCI 6101 Object-Oriented Programming Using Java	10
CSCI 6102 Data Analytics Using Python	
CSCI 6103 Art of Program Design	
Total Credit Hours	10

Non-Degree Admission

Applicants who have a high number of deficiencies may be granted Non-Degree admission to the College of Graduate Studies to take a limited number of graduate-level courses.

Program of Study

Research Project Option

The graduate student and the graduate advisor shall develop a Program of Study that consists of 30 credits of graduate course work, including 10 credits of core courses, 17 credits of elective classes at the 7000 level, and 3 credits of Research Project in Computer Science (CSCI 7899)(project option).

Course Only Option

The graduate student and the graduate advisor shall develop a Program of Study that consists of 30 credits of graduate course work, including 10 credits of core courses, 20 credits of elective classes at the 7000 level, and CSCI Graduate Technical Seminar (course only).

	Credit Hours
Core Requirements	10
CSCI 7130 Artificial Intelligence - Theory and Application	
CSCI 7132 Database Systems Design-Theory and Application	
CSCI 7432 Algorithm Analysis and Data Structures	
CSCI 7630 Current Trends in Computing	
Concentration Required and Electives	9
See Concentrations for CSCI 7XXX courses	
Electives	8 - 11
Any CSCI 7XXX Courses	
Culminating Experience (during the last semester)	0 or 3
CSCI 7899 Research Project in Computer Science (Project Option)	
or CSCI 7610 Graduate Technical Seminar	
Total Credit Hours	30

Concentration: Software Engineering

	Credit Hours
Core Requirement	3
CSCI 7532 Advanced Software Engineering	
Concentration Electives	6
Select at least two of the following	
CSCI 7090 Selected Topics in Computer Science	
CSCI 7380 Software Security and Secure Coding	
CSCI 7533 Requirements and Architecture	
CSCI 7534 Testing and Measurement	
Electives	8 - 11
Any CSCI 7XXX Courses	
Total Credit Hours	17-20

Concentration: Software and Cyber Security

	Credit Hours
Core Requirement	3
CSCI 7380 Software Security and Secure Coding	
Concentration Electives	6
Select at least two of the following	
CSCI 7090 Selected Topics in Computer Science	
CSCI 7433 Data and Database Security	
CSCI 7536 Network and Computer Security	
CSCI 7710 Advanced Computer Security	
Electives	8 - 11
Any CSCI 7XXX Courses	
Total Credit Hours	17-20

Concentration: Machine Learning

	Credit Hours
Core Requirement	3
CSCI 7434 Data Mining	

	Credit Hours
Concentration Electives	6
Select at least two of the following	
CSCI 7090 Selected Topics in Computer Science	
CSCI 7435 Data Warehousing	
CSCI 7501 Computational Intelligence	
CSCI 7510 Decision Support Systems	
Electives	
Any CSCI 7XXX Courses	
Total Credit Hours	9

Concentration: Data and Knowledge Systems

	Credit Hours
Core Requirements	3
CSCI 7434 Data Mining	
Concentration Electives	6
Select at least two of the following	
CSCI 7090 Selected Topics in Computer Science	
CSCI 7431 Distributed Database Systems	
CSCI 7435 Data Warehousing	
CSCI 7510 Decision Support Systems	
Electives	8 - 11
Select from the following:	
Any CSCI 7XXX courses	
Total Credit Hours	17-20

Accelerated Bachelors to Masters (ABM) (Project Option)

Degree Requirements: 30 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSCS-ABM** program combines **124** hours from the **BS Computer Science program** and **30** hours from the **MSCS program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **4** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSCS-ABM** students may share a maximum of **4** credit hours of graduate-level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Master's of Science in Computer Science (ABM-MSCS) degree program, the applicant must have:

1. Enrollment as a current Georgia Southern undergraduate student majoring in Computer Science.
2. Between 75 and 95 (inclusive) credit hours completed in the undergraduate program; including the courses CSCI 1301, CSCI 1302, CSCI 3230, and CSCI 3236, each with a grade of C or better.
3. A 3.0 (4.0 scale) GPA in computer science undergraduate coursework.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the

program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu

Computer Science M.S. (Hybrid) (Thesis)

Degree Requirements: 30 Credit Hours

Admission Requirements

Regular Admission

Domestic Candidates:

1. Bachelor of Science in Computer Science or in a related field (Computer Engineering, Information Technology, Information Systems, Software Engineering, etc.) from an accredited program OR Bachelor of Science in a non-computing field with at least two years of relevant professional experience in computing.
2. Have a minimum cumulative GPA of 2.5/4.0 or its equivalent.
3. Submit a General GRE score.

International Candidates

1. Bachelor of Science in Computer Science or in a related field (for example, Computer Engineering, Information Technology, Information Systems, Software Engineering, etc.).
2. Have a cumulative GPA of 3.0/4.0 or equivalent.
3. Submit a General GRE score.
4. Submit a minimum TOEFL score of 80 (internet-based). The TOEFL will be waived for international applicants who have graduated from a U.S. College or University.

Provisional Admission

Applicants who meet most (but not all) of the Regular admission requirements may be admitted on a Provisional basis. Applicants granted Provisional admission must earn grades of "B" or higher in the courses taken under the Provisional admission status. Any other conditions of Provisional admission will be stated in the admission letter. Applicants with such admission status may take graduate-level courses counting toward the M.S. degree requirements. It is every student's responsibility to satisfy his or her conditions of admission as soon as possible after acceptance. Prerequisites for provisionally admitted students consist of the following graduate courses:

Requirements	Credit Hours
CSCI 6101 Object-Oriented Programming Using Java	10
CSCI 6102 Data Analytics Using Python	
CSCI 6103 Art of Program Design	
Total Credit Hours	10

Non-Degree Admission

Applicants who have a high number of deficiencies may be granted Non-Degree admission to the College of Graduate Studies to take a limited number of graduate level courses.

Program of Study

The graduate student and the graduate advisor shall develop a Program of Study that consists of 30 credits of graduate course work, including 10 credits of core courses, 11 credits of elective classes at the 7000 level, and 9 credits of Thesis (CSCI 7999).

	Credit Hours
Core Requirements	10
CSCI 7130 Artificial Intelligence - Theory and Application	
CSCI 7132 Database Systems Design-Theory and Application	
CSCI 7432 Algorithm Analysis and Data Structures	
CSCI 7630 Current Trends in Computing	
Concentration Required and Electives	11
See Concentrations for CSCI 7XXX courses	
Thesis Option (during the last semester)	9
CSCI 7999 Thesis	
Total Credit Hours	30

Concentration: Software Engineering

	Credit Hours
Core Requirement	3
CSCI 7532 Advanced Software Engineering	
Concentration Electives	6
Select at least two of the following	
CSCI 7090 Selected Topics in Computer Science	
CSCI 7380 Software Security and Secure Coding	
CSCI 7533 Requirements and Architecture	
CSCI 7534 Testing and Measurement	
Electives	2
Any CSCI 7XXX Course	
Total Credit Hours	11

Concentration: Software and Cyber Security

	Credit Hours
Core Requirement	3
CSCI 7380 Software Security and Secure Coding	
Concentration Electives	6
Select at least two of the following	
CSCI 7090 Selected Topics in Computer Science	
CSCI 7433 Data and Database Security	
CSCI 7536 Network and Computer Security	
CSCI 7710 Advanced Computer Security	
Electives	2
Any CSCI 7XXX Course	
Total Credit Hours	11

Concentration: Machine Learning

	Credit Hours
Core Requirement	3
CSCI 7434 Data Mining	

Concentration Electives	6
Select at least two of the following	
CSCI 7090 Selected Topics in Computer Science	
CSCI 7435 Data Warehousing	
CSCI 7501 Computational Intelligence	
CSCI 7510 Decision Support Systems	
Electives	2
Any CSCI 7XXX Courses	
Total Credit Hours	11

Concentration: Data and Knowledge Systems

	Credit Hours
Core Requirements	3
CSCI 7434 Data Mining	
Concentration Electives	6
Select at least two of the following	
CSCI 7090 Selected Topics in Computer Science	
CSCI 7431 Distributed Database Systems	
CSCI 7435 Data Warehousing	
CSCI 7510 Decision Support Systems	
Electives	2
Any CSCI 7XXX courses	
Total Credit Hours	11

Students with a GPA over 3.8 are encouraged to take the Master's Thesis option.

Accelerated Bachelors to Masters (ABM)

Degree Requirements: 30 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSCS-ABM** program combines **124** hours from the **BS Computer Science program** and **30** hours from the **MSCS program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **4** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSCS-ABM** students may share a maximum of **4** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

For regular admission to the Accelerated Bachelor's to Master's of Science in Computer Science (ABM-MSCS) degree program, the applicant must have:

1. Enrollment as a current Georgia Southern undergraduate student majoring in Computer Science.
2. Between 75 and 95 (inclusive) credit hours completed in the undergraduate program; including the courses CSCI 1301, CSCI 1302, CSCI 3230 and CSCI 3236, each with a grade of C or better.
3. A 3.0 (4.0 scale) GPA in computer science undergraduate coursework.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the

program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Electrical and Computer Engineering

The Master of Science in Electrical Engineering (MSEE) degree program offered on the Statesboro campus of Georgia Southern integrates state-of-the-art technology and interdisciplinary and conceptual science with hands-on, operational skills preparation. The MSEE program is designed to meet the global need for engineers who possess leadership skills but also applications experience in consumer, commercial and industrial fields. MSEE graduates are innovators prepared to become responsible, strategic leaders and exceptional engineering professionals. Graduates gain valuable knowledge and are uniquely positioned to make immediate impacts in their careers. The program serves both full-time students preparing for careers in Electrical Engineering as well as currently employed professionals seeking an advanced education to augment their existing skills and background.

Courses include analytical math and experimental research in areas such as autonomous systems, optical communications, wireless power, small antennas, and energy harvesting. Thesis or non-thesis tracks are available within the program. Research conducted through the thesis or independent study project provides opportunity for individualized in-depth study with a faculty mentor.

Programs

Master's

- Electrical Engineering M.S.E.E. (Non-Thesis) (p. 150)
- Electrical Engineering M.S.E.E. (Thesis) (p. 152)

Electrical Engineering M.S.E.E. (Non-Thesis)

Degree Requirements: 30 Credit Hours

Admissions Requirements

Regular Admission

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in the proposed or closely related field of study.
3. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet the College of Graduate Studies English Proficiency requirements.

- The Master of Science in Electrical Engineering program requires: a) a bachelor's degree in electrical engineering, computer engineering, or related field; or b) permission of the Graduate Program Director.

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Electrical Engineering Graduate Coordinator or department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program of Study

	Credit Hours
Core Requirements	15
EENG 7330 Advanced Electromagnetics	
EENG 7331 Advanced Digital Signal Processing	
EENG 7332 Digital Control Systems	
EENG 7333 Advanced Power Systems	
EENG 7530 Research in Electrical Engineering	
Elective Requirements	12
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator ¹	
Other Non-Thesis Requirements	3
EENG 7891 Independent Study	
Comprehensive Exam	
Total Credit Hours	30

Accelerated Bachelor's to Master's (ABM) Degree Requirements: 30 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSEE-ABM** program combines **130** hours from the **BSEE program** and **30** hours from the **MSEE program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSEE-ABM** students may share a maximum of **9** credit hours of graduate-level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to the Master's of Science in Electrical Engineering (ABM-MSEE) degree program, the applicant must:

- Be a current Georgia Southern undergraduate student majoring in Electrical Engineering (EE).
- Have completed at least 25 credit hours of undergraduate coursework in EE discipline including MATH 1441, MATH 2242, PHYS 2211K, PHYS 2212K, ENGR 1731, ENGR 1732, and ENGR 2332.

- Have a 3.0 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours (Non-Thesis)

- A student in the ABM program will be allowed to use up to 9 credits EENG 5000G level courses offered within the Electrical Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
- Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
- Meet all requirements for both the BSEE and M.S.E.E. degrees.
- An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
- A minimum of 50% of courses for the Master of Science in Electrical Engineering degree must be taken at or above the 6000 level.

	Credit Hours
Core Requirements	18
EENG 5540G Communication Systems with Lab ² or EENG 5431G Control Systems with Lab	
EENG 7330 Advanced Electromagnetics	
EENG 7331 Advanced Digital Signal Processing	
EENG 7332 Digital Control Systems	
EENG 7333 Advanced Power Systems (Advanced Power Systems)	
EENG 7530 Research in Electrical Engineering	
Elective Requirements	9
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator ¹	
Other Non-Thesis Requirements	3
EENG 7891 Independent Study	
Comprehensive Exam	
Total Credit Hours	30

- A minimum of 50% of courses for the Master of Science in Electrical Engineering degree must be taken at or above the 6000 level.
- While EENG 5540G is 4 credit hours, only 3 credit hours will count toward fulfilling the graduate elective requirement. The remaining credit hour will be applied toward the undergraduate requirements.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.

Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Electrical Engineering M.S.E.E. (Thesis)

Degree Requirements: 30 Credit Hours (Thesis)

Admission Requirements

Regular Admission

For regular admission to the Master of Science in Electrical Engineering (MSEE) degree program, the applicant must have:

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in the proposed or closely related field of study.
3. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet the College of Graduate Studies English Proficiency requirements.
5. The Master of Science in Electrical Engineering program requires: a) a bachelor's degree in electrical engineering, computer engineering, or related field; or b) permission of the Graduate Program Director.

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Electrical Engineering Graduate Coordinator or department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program of Study

	Credit Hours
Core Requirements	15
EENG 7330 Advanced Electromagnetics	
EENG 7331 Advanced Digital Signal Processing	
EENG 7332 Digital Control Systems	
EENG 7333 Advanced Power Systems	
EENG 7530 Research in Electrical Engineering	
Elective Requirement	9
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator ¹	
Other Thesis Requirements	6
EENG 7999 Thesis	
Comprehensive Exam	
Total Credit Hours	30

Thesis

Each candidate for the Master of Science in Electrical Engineering Thesis Track degree must complete a thesis on a subject approved by the graduate thesis committee. Thesis credits must be completed over no

less than two semesters. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has responsibility for an intensive and rigorous criticism of the thesis and a third member of the thesis committee has the responsibility of an "editorial reader." Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Electrical Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the ETD format check submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.

See the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing (latest version at the COGS Electronic Theses and Dissertation website).

Accelerated Bachelor's to Master's (ABM) Degree Requirements: 30 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSEE-ABM** program combines **130** hours from the **BSEE program** and **30** hours from the **MSEE program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSEE-ABM** students may share a maximum of **9** credit hours of graduate-level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to the Master's of Science in Electrical Engineering (ABM-MSEE) degree program, the applicant must:

1. Be a current Georgia Southern undergraduate student majoring in Electrical Engineering (EE).
2. Have completed at least 25 credit hours of undergraduate coursework in EE discipline including MATH 1441, MATH 2242, PHYS 2211K, PHYS 2212K, ENGR 1731, ENGR 1732, and ENGR 2332.
3. Have a 3.0 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum

requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours (Thesis)

1. A student in the ABM program will be allowed to use up to 9 credits EENG 5000G level courses offered within the Electrical Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BSEE and M.S.E.E. degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Electrical Engineering degree must be taken at or above the 6000 level.

	Credit Hours
Core Requirements	18
EENG 5540G Communication Systems with Lab ² or EENG 5431G Control Systems with Lab	
EENG 7330 Advanced Electromagnetics	
EENG 7331 Advanced Digital Signal Processing	
EENG 7332 Digital Control Systems	
EENG 7333 Advanced Power Systems (Advanced Power Systems)	
EENG 7530 Research in Electrical Engineering	
Elective Requirements	6
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator ¹	
Other Non-Thesis Requirements	6
EENG 7999 Thesis	
Comprehensive Exam	
Total Credit Hours	30

¹ A minimum of 50% of courses for the Master of Science in Electrical Engineering degree must be taken at or above the 6000 level.

² While EENG 5540G is 4 credit hours, only 3 credit hours will count toward fulfilling the graduate elective requirement. The remaining credit hour will be applied toward the undergraduate requirements.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Information Technology

The Master of Science in Information Technology (MSIT) degree program offered on the Statesboro campus of Georgia Southern integrates state-of-the-art technology and interdisciplinary and conceptual science with hands-on, operational skills preparation. Graduates gain valuable knowledge and are uniquely positioned to make immediate impacts in their careers. The MSIT program embraces the constantly changing IT industry and prepares graduates to analyze and manage IT networks and systems. Thesis and non-thesis tracks are available within the program. Courses include IT management, data analytics, networking, data management and storage, and network security. Research conducted through the thesis or independent study project provides opportunity for individualized in-depth study with a faculty mentor.

Programs

Master's

- Information Technology M.S.I.T. (Non-Thesis) (p. 153)
- Information Technology M.S.I.T. (Thesis) (p. 155)

Information Technology M.S.I.T. (Non-Thesis)

Degree Requirements: 30 Credit Hours

Admission Requirements

Regular Admission

1. Admissions to the MSIT program are competitive. Meeting the admission requirements does not guarantee admission to the program.
2. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
3. An undergraduate degree or the equivalent in Information Technology, Computer Science/Engineering, or Information Systems, or a closely related field of study.
4. A 3.00 (4.0 scale) cumulative grade point average (GPA) or higher on courses in undergraduate work, or equivalent.
5. International students must meet College of Graduate Studies English Proficiency requirements.
6. In addition to the above requirements, admission to the Master of Science in Information Technology also requires:

(a) two years of work experience in the IT field if the undergraduate degree is not in information technology, information systems, computer science/engineering or a closely related field; and

(b) a competitive score on the GRE or GMAT exam. The GRE or GMAT exam may be waived if the applicant has three or more years of work experience in IT or a closely related field.

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Information Technology Graduate Program Coordinator or Department Chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program of Study ¹

		Credit Hours
Core Requirements		12
IT 7130	IT Governance	
IT 7135	Seminar in IT	
IT 7134	IT Project Management	
IT 7131	Data Science Methods	
Elective Courses		15
Choose 15 credits (a maximum of 9 credits from IT 5xxxG courses)		
IT 5090G	Selected Topics in Information Technology	
IT 5135G	Data Analytics	
IT 5233G	Web and Mobile Security Fundamentals	
IT 5236G	Distributed and Mobile Systems	
IT 5433G	Information Storage and Management	
IT 5434G	Advanced Network Security	
IT 7090	Selected Topics in Information Technology	
IT 7133	Digital Security and Forensics Investigation	
IT 7790	MSIT Internship	
IT 7895	Special Problems in IT	
Or other elective courses approved by MSIT Program Coordinator		
Project		3
IT 7891	Independent Study (Non-Thesis Option)	
Total Credit Hours		30

¹ A minimum of 50% of courses for the Master of Science in Information Technology degree must be taken at or above the 6000 level.

Accelerated Bachelors to Masters (ABM) Degree Requirements: 30 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSIT-ABM** program combines **124** hours from the **BSIT program** and **30** hours from the **MSIT program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **4** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSIT-ABM** students may share a maximum of **4** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Master's of Science in Information Technology (ABM-MSIT) degree program, the applicant must have:

1. Enrollment as a current Georgia Southern undergraduate student majoring in Information Technology.
2. Completed at least 45 credit hours completed in the undergraduate program; including the courses MATH 1111, COMM 1110, STAT 1401, IT 1130, and IT 2333, each with a grade of C or better.

3. A 3.0 (4.0 scale) cumulative GPA or higher in undergraduate coursework.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours (Thesis & Non-Thesis)

1. A student in the ABM program will be allowed to use up to 4 credits of upper division IT courses offered within the Information Technology program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 4 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BSIT and MSIT degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Information Technology degree must be taken at or above the 6000 level.

General Requirements

		Credit Hours
Core Requirements		12
IT 7130	IT Governance	
IT 7135	Seminar in IT	
IT 7134	IT Project Management	
IT 7131	Data Science Methods	
Elective Courses		15
Choose 15 credits (a maximum of 9 credits from IT 5xxxG courses)		
IT 5090G	Selected Topics in Information Technology	
IT 5135G	Data Analytics	
IT 5233G	Web and Mobile Security Fundamentals	
IT 5236G	Distributed and Mobile Systems	
IT 5433G	Information Storage and Management	
IT 5434G	Advanced Network Security	
IT 7090	Selected Topics in Information Technology	
IT 7133	Digital Security and Forensics Investigation	
IT 7790	MSIT Internship	
IT 7895	Special Problems in IT	
Or other elective courses approved by MSIT Program Coordinator		
Project		3
IT 7891	Independent Study (Non-Thesis Option)	
Total Credit Hours		30

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more

information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Information Technology M.S.I.T. (Thesis)

Degree Requirements: 30 Credit Hours (Thesis)

Admission Requirements

Regular Admission

1. Admissions to the MSIT program are competitive. Meeting the admission requirements does not guarantee admission to the program.
2. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
3. An undergraduate degree or the equivalent in Information Technology, Computer Science/Engineering, or Information Systems, or a closely related field of study.
4. A 3.00 (4.0 scale) cumulative grade point average (GPA) or higher on courses in undergraduate work, or equivalent.
5. International students must meet College of Graduate Studies English Proficiency requirements. 6. In addition to the above requirements, admission to the Master of Science in Information Technology also requires:

(a) two years of work experience in the IT field if the undergraduate degree is not in information technology, information systems, computer science/engineering or a closely related field; and

(b) a competitive score on the GRE or GMAT exam. The GRE or GMAT exam may be waived if the applicant has three or more years of work experience in IT or a closely related field.

Provisional

A student may be granted provisional admission based upon the recommendation of the Master of Science in Information Technology Graduate Program Coordinator or Department Chair.

Non-Degree

Non-degree students are accepted on an individual basis as space is available.

Program of Study ¹

		Credit Hours
Core Requirements		12
IT 7130	IT Governance	
IT 7135	Seminar in IT	
IT 7134	IT Project Management	
IT 7131	Data Science Methods	
Electives Courses		12
Choose 12 credits (a maximum of 6 credit hours from IT 5xxxG courses)		
IT 5090G	Selected Topics in Information Technology	

IT 5135G	Data Analytics	
IT 5233G	Web and Mobile Security Fundamentals	
IT 5236G	Distributed and Mobile Systems	
IT 5433G	Information Storage and Management	
IT 5434G	Advanced Network Security	
IT 7090	Selected Topics in Information Technology (May be repeated for credit under different topics)	
IT 7133	Digital Security and Forensics Investigation	
IT 7790	MSIT Internship	
IT 7895	Special Problems in IT	
Or other elective courses approved by MSIT Program Coordinator		
Thesis		6
IT 7999	Thesis	
Total Credit Hours		30

¹ A minimum of 50% of courses for the Master of Science in Information Technology degree must be taken at or above the 6000 level.

Thesis

Each candidate for the Master of Science in Information Technology Thesis Option degree must complete a thesis on a subject approved by the graduate thesis committee. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has responsibility for an intensive and rigorous criticism of the thesis and a third member of the thesis committee has the responsibility of an "editorial reader." Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off. The style and format for the completed thesis shall follow that prescribed by the Program Director for the Master of Science in Information Technology degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the final thesis submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.

Accelerated Bachelors to Masters (ABM) Degree Requirements: 30 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSIT-ABM** program combines **124** hours from the **BSIT program** and **30** hours from the **MSIT program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **4** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **BSIT-ABM**

students may share a maximum of 4 credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Master's of Science in Information Technology (ABM-MSIT) degree program, the applicant must have:

1. Enrollment as a current Georgia Southern undergraduate student majoring in Information Technology.
2. Completed at least 45 credit hours completed in the undergraduate program; including the courses MATH 1111, COMM 1110, STAT 1401, IT 1130, and IT 2333, each with a grade of C or better.
3. A 3.0 (4.0 scale) cumulative GPA or higher in undergraduate coursework.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours (Thesis & Non-Thesis)

1. A student in the ABM program will be allowed to use up to 4 credits of upper division IT courses offered within the Information Technology program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 4 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BSIT and MSIT degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Information Technology degree must be taken at or above the 6000 level.

General Requirements

	Credit Hours
Core Requirements	12
IT 7130	IT Governance
IT 7135	Seminar in IT
IT 7134	IT Project Management
IT 7131	Data Science Methods

Electives Courses 12

Choose 12 credits (a maximum of 6 credit hours from IT 5xxxG courses)

IT 5090G	Selected Topics in Information Technology
IT 5135G	Data Analytics
IT 5233G	Web and Mobile Security Fundamentals
IT 5236G	Distributed and Mobile Systems
IT 5433G	Information Storage and Management
IT 5434G	Advanced Network Security

IT 7090	Selected Topics in Information Technology (May be repeated for credit under different topics)	
IT 7133	Digital Security and Forensics Investigation	
IT 7790	MSIT Internship	
IT 7895	Special Problems in IT	
Or other elective courses approved by MSIT Program Coordinator		
Thesis		6
IT 7999	Thesis	
Total Credit Hours		30

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Manufacturing Engineering

The Department of Manufacturing Engineering offers the Master of Science in Applied Engineering (MSAE) degree program on the Statesboro campus of Georgia Southern. The MSAE degree program integrates state-of-the-art technology and interdisciplinary and conceptual science with hands-on, operational skills preparation. Graduates gain valuable knowledge and are uniquely positioned to make immediate impacts in their careers. This applied engineering program works closely with area industry, helping them solve a wide range of engineering problems, and giving students a real-world classroom in which to learn their skills. In addition, students regularly join world-class professors in leading-edge research in the College's state-of-the-art laboratories.

Students in the MSAE degree program have several study options to choose from:

- Advanced Manufacturing Engineering concentration
- Engineering Management concentration

The Advanced Manufacturing Engineering concentration includes courses in the areas of Lean and Six Sigma, Additive Manufacturing, Nano-manufacturing, and Automation. Thesis or non-thesis tracks for both concentrations are available within the program. Research conducted through the thesis or independent study project provides opportunity for individualized in-depth study with a faculty mentor.

Programs

Master's

- Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Non-Thesis) (p. 157)
- Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Thesis) (p. 158)
- Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Non-Thesis) (p. 159)

- Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Thesis) (p. 161)

Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Non-Thesis)

Degree Requirements: 30 Credit Hours (Non-Thesis)

Regular Admission

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in the proposed or closely related field of study.
3. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet College of Graduate Studies English Proficiency requirements.
5. The Master of Science in Applied Engineering program with Advanced Manufacturing Engineering concentration requires: a) a bachelor's degree in manufacturing engineering or a closely related engineering discipline, and b) permission of the Graduate Program Director.

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Applied Engineering Graduate Coordinator or department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program of Study

A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level.

	Credit Hours
Core Requirements	12
MFGE 7331 Manufacturing System Design and Analysis	
MFGE 7332 Advanced Additive Manufacturing	
MFGE 7530 Research in Applied Engineering	
TMAE 7891 Independent Study	
Elective Requirements	18
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator. A list of the qualified MFGE 5000G level courses is shown below:	
MFGE 5131G Lean and Six Sigma Green Belt-1	
MFGE 5132G Lean and Six Sigma Green Belt-2	
MFGE 5133G Advanced Engineering Project Management	
MFGE 5134G Reliability Engineering	

MFGE 5238G Facilities Maintenance	
MFGE 5331G Advanced Robotics for Manufacturing	
MFGE 5332G Manufacturing Floor Control	
MFGE 5333G Additive Manufacturing Studio	
MFGE 5334G Additive Manufacturing of Lightweight Structures	
MFGE 5335G Machine Vision	
MFGE 5336G Smart and Sustainable Manufacturing	
MFGE 5531G Advanced CNC Machining and Programming	
MFGE 5532G Introduction to MEMS	
MFGE 5533G Heat Treatment and Microstructure of Metal	
MFGE 5534G Packaging	
MFGE 5535G NanoManufacturing	
MFGE 5536G Characterization of Advanced Manufacturing Materials	
MFGE 5537G Design for Environment and Green Manufacturing	
MFGE 5538G Nondestructive Testing and Evaluation Techniques	
Total Credit Hours	30

Accelerated Bachelor's to Master's (ABM) Degree

The Accelerated Bachelor's to Master's Degree Program is intended for the current undergraduate students in the Department of Manufacturing Engineering at the Georgia Southern University. It will produce a pathway to earn both a Bachelor's and a Master's Degree within five years.

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSAE-ABM** program combines **130** hours from the **BSMfgE** program and **30** hours from the **MSAE** program, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSAE-ABM** students may share a maximum of **9** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Master's of Science in Applied Engineering (ABM-MSAE) degree program, the applicant must:

1. Be enrolled in the undergraduate Manufacturing Engineering program (BS-MFGE) in the Department of Manufacturing Engineering at the Georgia Southern University.
2. Have completed at least 25 credit hours of undergraduate coursework in MFGE courses including MFGE 2531, MFGE 2142, MFGE 2533, MFGE 2239, and MFGE 2534.
3. Have a 3.0 or higher Georgia Southern Institutional GPA.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum

requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours (Non-Thesis)

1. Students in the ABM program will be allowed to use up to 9 credits MFGE 5000G level courses offered within the Manufacturing Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BS-MFGE and M.S.A.E. degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Thesis)

Degree Requirements: 30 Credit Hours (Thesis)

Admission Requirements

Regular Admission

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in the proposed or closely related field of study.
3. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet the College of Graduate Studies English Proficiency requirements.
5. The Master of Science in Applied Engineering program with Advanced Manufacturing Engineering concentration requires: a) a bachelor's degree in manufacturing engineering or a closely related engineering discipline, and b) permission of the Graduate Program Director.

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Applied Engineering Graduate Coordinator or department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program of Study

A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level.

	Credit Hours
Core Requirements	15
MFGE 7331 Manufacturing System Design and Analysis	
MFGE 7332 Advanced Additive Manufacturing	
MFGE 7530 Research in Applied Engineering	
TMAE 7999 Thesis	
Elective Requirements	15
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator. A list of the qualified MFGE 5000G level courses is shown below:	
MFGE 5131G Lean and Six Sigma Green Belt-1	
MFGE 5132G Lean and Six Sigma Green Belt-2	
MFGE 5133G Advanced Engineering Project Management	
MFGE 5134G Reliability Engineering	
MFGE 5238G Facilities Maintenance	
MFGE 5331G Advanced Robotics for Manufacturing	
MFGE 5332G Manufacturing Floor Control	
MFGE 5333G Additive Manufacturing Studio	
MFGE 5334G Additive Manufacturing of Lightweight Structures	
MFGE 5335G Machine Vision	
MFGE 5336G Smart and Sustainable Manufacturing	
MFGE 5531G Advanced CNC Machining and Programming	
MFGE 5532G Introduction to MEMS	
MFGE 5533G Heat Treatment and Microstructure of Metal	
MFGE 5534G Packaging	
MFGE 5535G NanoManufacturing	
MFGE 5536G Characterization of Advanced Manufacturing Materials	
MFGE 5537G Design for Environment and Green Manufacturing	
MFGE 5538G Nondestructive Testing and Evaluation Techniques	
Total Credit Hours	30

Thesis

Each candidate for the Master of Science in Applied Engineering Thesis Track degree must complete a thesis on a subject approved by the graduate thesis committee. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One

member, termed the second reader, has responsibility for an intensive and rigorous criticism of the thesis and a third member of the thesis committee has the responsibility of an "editorial reader." Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Applied Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the final thesis submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.

See the *Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing* (latest version at the COGS Electronic Theses and Dissertation website).

Accelerated Bachelor's to Master's (ABM) Degree

The Accelerated Bachelor's to Master's Degree Program is intended for the current undergraduate students in the Department of Manufacturing Engineering at the Georgia Southern University. It will produce a pathway to earn both a Bachelor's and a Master's Degree within five years.

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSAE-ABM** program combines **130** hours from the **BSMfgE program** and **30** hours from the **MSAE program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSAE-ABM** students may share a maximum of **9** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Master's of Science in Applied Engineering (ABM-MSAE) degree program, the applicant must:

1. Be enrolled in the undergraduate Manufacturing Engineering program (BS-MFGE) in the Department of Manufacturing Engineering at the Georgia Southern University.
2. Have completed at least 25 credit hours of undergraduate coursework in MFGE courses including MFGE 2531, MFGE 2142, MFGE 2533, MFGE 2239, and MFGE 2534.
3. Have a 3.0 or higher Georgia Southern Institutional GPA.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of

undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours (Thesis)

1. Students in the ABM program will be allowed to use up to 9 credits MFGE 5000G level courses offered within the Manufacturing Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BS-MFGE and M.S.A.E. degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Non-Thesis)

Degree Requirements: 30 Credit Hours (Non-Thesis)

Admission Requirements

Regular Admission

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in the proposed or closely related field of study.
3. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet College of Graduate Studies English Proficiency requirements.

A student may be granted provisional admission based upon the recommendation of the Master of Science in Applied Engineering Graduate Coordinator or department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program Concentrations

The Master of Science in Applied Engineering degree program provides concentrations in Advanced Manufacturing Engineering, Civil Engineering and Construction, Electrical & Electronic Systems, Mechanical Engineering, Mechatronics, Energy Science, Engineering Management, and Information Technology.

A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level.

Program of Study

	Credit Hours
Core Requirements	6
TMAE 7432 Advanced Engineering Economy	
MFGE 7530 Research in Applied Engineering	
Technical Core Courses	6
TMAE 7531 Technical Management and Leadership	
TSEC 5331G Occupational Safety	
Technical Electives (Select 6 courses for 18 credits)	18
TMAE 5133G Production Planning and Facilities Design	
MFGE 5135G Lean World Class Manufacturing	
TMAE 5890 Selected Topics in Applied Engineering	
MFGE 7430 Industrial Case Study Analysis	
TMAE 7431 Advanced Quality Control	
TMAE 7890 Selected Topics in Applied Engineering	
TMAE 7891 Independent Study	
TMAE 7895 Special Problems in Applied Engineering	
MFGE 5230G International Manufacturing	
MFGE 5338G Industrial Hygiene and Ergonomics	
MFGE 5339G Manufacturing Standards and Standardization	
TSEC 5334G Hazardous Waste Management	
TSEC 5335G Systems Safety in Manufacturing	
Additional Electives as approved by the department graduate program coordinator and/or department chair	
TSEC 5336G Environmental Law	
Total Credit Hours	30

Accelerated Bachelor's to Master's (ABM) Degree

The Accelerated Bachelor's to Master's Degree Program is intended for the current undergraduate students in the Department of Manufacturing Engineering at the Georgia Southern University. It will produce a pathway to earn both a Bachelor's and a Master's Degree within five years.

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSAE-ABM** program combines **130** hours from the **BSMfgE** program and **30** hours from the **MSAE** program, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs.

Therefore, **MSAE-ABM** students may share a maximum of **9** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Master's of Science in Applied Engineering (ABM-MSAE) degree program, the applicant must:

1. Be enrolled in the undergraduate Manufacturing Engineering program (BS-MFGE) in the Department of Manufacturing Engineering at the Georgia Southern University.
2. Have completed at least 25 credit hours of undergraduate coursework in MFGE courses including MFGE 2531, MFGE 2142, MFGE 2533, MFGE 2239, and MFGE 2534.
3. Have a 3.0 or higher Georgia Southern Institutional GPA.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours (Thesis)

1. Students in the ABM program will be allowed to use up to 9 credits MFGE 5000G level courses offered within the Manufacturing Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BS-MFGE and M.S.A.E. degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Thesis)

Degree Requirements: 30 Credit Hours (Thesis)

Admission Requirements

Regular Admission

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in the proposed or closely related field of study.
3. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet College of Graduate Studies English Proficiency requirements.

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Applied Engineering Graduate Coordinator or department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program Concentrations

The Master of Science in Applied Engineering degree program provides concentrations in Advanced Manufacturing Engineering, Civil Engineering and Construction, Electrical & Electronic Systems, Mechanical Engineering, Mechatronics, Energy Science, Engineering Management, and Information Technology.

A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level.

Program of Study

	Credit Hours
Core Requirements	6
TMAE 7432 Advanced Engineering Economy	
MFGE 7530 Research in Applied Engineering	
Technical Core Courses	6
TMAE 7531 Technical Management and Leadership	
TSEC 5331G Occupational Safety	
Restricted Elective courses at or above the 5000G level as contracted with the faculty adviser and degree coordinator	12
TMAE 5133G Production Planning and Facilities Design	
MFGE 5135G Lean World Class Manufacturing	
TMAE 5890G Selected Topics in Applied Engineering	
MFGE 7430 Industrial Case Study Analysis	
TMAE 7431 Advanced Quality Control	
TMAE 7890 Selected Topics in Applied Engineering	

TMAE 7895	Special Problems in Applied Engineering	
MFGE 5230G	International Manufacturing	
MFGE 5338G	Industrial Hygiene and Ergonomics	
MFGE 5339G	Manufacturing Standards and Standardization	
TSEC 5334G	Hazardous Waste Management	
Additional Electives as approved by the department graduate program coordinator and/or department chair		
TSEC 5335G	Systems Safety in Manufacturing	
TSEC 5336G	Environmental Law	
Capstone Activity		6
TMAE 7999	Thesis	
Total Credit Hours		30

Thesis

Each candidate for the Master of Science in Applied Engineering Thesis Track degree must complete a thesis on a subject approved by the graduate thesis committee. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has responsibility for an intensive and rigorous criticism of the thesis and a third member of the thesis committee has the responsibility of an "editorial reader." Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Applied Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the final thesis submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.

See the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing (latest version at the COGS Electronic Theses and Dissertation website).

Accelerated Bachelor's to Master's (ABM) Degree

The Accelerated Bachelor's to Master's Degree Program is intended for the current undergraduate students in the Department of Manufacturing Engineering at the Georgia Southern University. It will produce a pathway to earn both a Bachelor's and a Master's Degree within five years.

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSAE-ABM** program combines **130** hours from the **BSMfgE program** and **30** hours from the **MSAE program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit

hours between the undergraduate and graduate degree programs. Therefore, **MSAE-ABM** students may share a maximum of **9** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Master's of Science in Applied Engineering (ABM-MSAE) degree program, the applicant must:

1. Be enrolled in the undergraduate Manufacturing Engineering program (BS-MFGE) in the Department of Manufacturing Engineering at the Georgia Southern University.
2. Have completed at least 25 credit hours of undergraduate coursework in MFGE courses including MFGE 2531, MFGE 2142, MFGE 2533, MFGE 2239, and MFGE 2534.
3. Have a 3.0 or higher Georgia Southern Institutional GPA.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

ABM Degree Requirements: 30 Credit Hours (Thesis)

1. Students in the ABM program will be allowed to use up to 9 credits MFGE 5000G level courses offered within the Manufacturing Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
3. Meet all requirements for both the BS-MFGE and M.S.A.E. degrees.
4. An undergraduate student enrolled in graduate classes is limited to 6 credit hours of graduate coursework per semester.
5. A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Mechanical Engineering

The Master of Science in Mechanical Engineering (MSME) degree program offered on the Statesboro campus of Georgia Southern integrates state-of-the-art technology and interdisciplinary and conceptual science

with hands-on, operational skills preparation. Graduates gain valuable knowledge and are uniquely positioned to make immediate impacts in their careers. Thesis or non-thesis tracks are available within the program. Courses in the MSME program include analytical math; renewable energy; combustion; engine development; fluid dynamics; mechanical controls; automation and CIMS; tribology; fracture mechanics; robotic dynamics, design and analysis; as well as experimental research. Thesis or independent study project research provides opportunity for individualized in-depth study within the concentration.

Programs

Master's

- Mechanical Engineering M.S.M.E. (Non-Thesis) (p. 162)
- Mechanical Engineering M.S.M.E. (Thesis) (p. 165)

Mechanical Engineering M.S.M.E. (Non-Thesis)

Admission Requirements

Regular Admission

1. Completed requirements for the bachelor's degree or the equivalent in the proposed or closely related field of study in Mechanical Engineering.
2. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
3. International students must meet College of Graduate Studies English Proficiency requirements (6.0 IELTS or 80 on TOFEL).

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Mechanical Engineering Graduate Coordinator and Department Chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program of Study

	Credit Hours
Core Requirements	9
MENG 7137 Principles of Modeling and Simulation	
MENG 7530 Research in Mechanical Engineering	
MENG 7136 Mechatronics I	
Elective Requirements	15
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator. Any appropriate course outside of those specified by name for the program or outside of the department must be approved by both the graduate program director and the department chair.	
EENG 5341G Robotic Systems Design w/Lab	
EENG 5342G Computer Systems Design w/Lab	
EENG 5431G Control Systems with Lab	
EENG 5532G Wireless Communications	
EENG 5540G Communication Systems with Lab	
MATH 5335G Intermediate Linear Algebra	
MATH 5530G Mathematics for Scientists and Engineers	

MENG 5090G	Selected Topics in Mechanical Engineering
MENG 5134G	Vehicle Dynamics
MENG 5135G	Vibration and Preventive Maintenance
MENG 5136G	Introduction to Finite Element Analysis
MENG 5137G	Mechanical System Design
MENG 5138G	Composite Materials: Manufacturing, Analysis, and Design
MENG 5139G	Renewable Energy
MENG 5231G	Tribology and Reliability
MENG 5233G	Wind Energy
MENG 5234G	Heating, Ventilating, and Air Conditioning
MENG 5237G	Applied Combustion
MENG 5238G	Engine Development and Performance
MENG 5239G	Biofuels Development and Testing
MENG 5331G	Automation and Computer Integrated Manufacturing Systems
MENG 5333G	Robot Dynamics, Design and Analysis
MENG 5335G	Applied Programmable Logic Controllers
MENG 5431G	Compressible Flow
MENG 5432G	Applied Computational Fluid Dynamics
MENG 5433G	Analysis of Energy Systems
MENG 5434G	Heat Transfer Principles and Applications
MENG 5531G	Metalcasting
MENG 5532G	Nanomaterials, Nanocomposites & Nanotechnology
MENG 5533G	Applied Welding and Joining
MENG 5536G	Mechanical Controls
MENG 5891G	Special Problems in Mechanical Engineering
MENG 7138	Mechatronics II
MENG 7239	Intermediate Fluid Mechanics
MENG 7431	Mechanics of Deformable Solids
MENG 7432	Fracture Mechanics
MENG 7890	Selected Topics in Mechanical Engineering
MENG 7891	Special Problems in Mechanical Engineering
MFGE 5230G	International Manufacturing
MFGE 5333G	Additive Manufacturing Studio

MFGE 5533G	Heat Treatment and Microstructure of Metal
MFGE 5535G	NanoManufacturing
TMAE 7431	Advanced Quality Control
TMAE 7432	Advanced Engineering Economy
TMAE 7531	Technical Management and Leadership
TMFG 5133G	Automated Manufacturing Systems
TMFG 5233G	Manufacturing Applications in Information Technology
Additional restricted electives as approved by the graduate program coordinator and/or department chair	
Capstone Activity	6
MENG 7895	Independent Study
Additional Technical Elective	
Other Non-Thesis Track Requirements:	
Comprehensive Exam	
<hr/>	
Total Credit Hours	30

Other Program Requirements (Non-Thesis Track)

- Each candidate in the Non-Thesis Track of MSME Program must have accomplished the following by the end of their second academic semester to maintain program eligibility:
 - Identify a project adviser (project chair) and form a Project Committee.
 - Determine project topic, and present project proposal to their Project Committee.
- Each candidate must receive approval from the Graduate Director or Department Chair of the Mechanical Engineering to take courses that are not named specifically as degree electives.
- Each candidate must complete their project on a subject approved by his/her committee.
 - The comprehensive exam of the research project must be announced to public one week prior to the defense. The comprehensive exam must be presented at a public exit seminar.
 - The comprehensive exam must be defended before the committee.
 - The comprehensive examination may include questions on the project, and subject matter related to the research project, and related course work.
 - In addition to the comprehensive exam, the student must provide the adviser with all data that was collected, including: electronic files, and a written document detailing the contents of the data.
 - The degree is conferred at the end of the semester, after the student has passed the comprehensive exam and the final written version of the project report has been approved by the committee and accepted by the graduate college.
- A minimum of 50% of courses for the Master of Science in Mechanical Engineering degree must be taken at or above the 6000 level.

Accelerated Bachelor's to Master's (ABM) Degree

This Accelerated Bachelor's to Master's Degree Program is intended for current undergraduate students in the Department of Mechanical Engineering at the Georgia Southern University. It will produce a pathway to earn both a Bachelor's and a Master's Degree within five years.

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique

credit hours are required for a Masters degree program. The **MSME-ABM** program combines **130** hours from the **BSME program** and **30** hours from the **MSME program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSME-ABM** students may share a maximum of **9** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Master's Degree of Science in Mechanical Engineering (ABM-MSME) degree program, the applicant must:

1. Be enrolled in the undergraduate mechanical engineering program (B.S.M.E) in the Department of Mechanical Engineering at the Georgia Southern University.
2. Have completed no less than 25 and no more than 50 credits of ENGR and MENG courses, or permission of Department Chair.
3. Must have 3.0 or better Georgia Southern Institutional GPA.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

Degree Requirements: 30 Credit Hours (Non-Thesis)

1. Student in the ABM program will be allowed to use up to 9 credits MENG 5000G level courses offered within the Mechanical Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. The 9 credit hours that will be applied to both the bachelor's and master's degrees include: MENG 5811G, MENG 5822G, and two MENG 5000G level courses approved by each student's research advisor and the the Mechanical Engineering Department's graduate program coordinator.
3. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
4. Meet all requirements for both B.S.M.E. and M.S.M.E. degrees.
5. A minimum of 50% of courses for the Master of Science in Mechanical Engineering degree must be taken at or above the 6000 level.

Non-Thesis Track, 30 Credit Hours

	Credit Hours
Core Requirements	9
MENG 7137 Principles of Modeling and Simulation	
MENG 7530 Research in Mechanical Engineering	
MENG 7136 Mechatronics I	
Elective Requirements	15

Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator. Any appropriate course outside of the department approved by both the graduate program director and the department chair.

EENG 5341G	Robotic Systems Design w/Lab
EENG 5342G	Computer Systems Design w/Lab
EENG 5431G	Control Systems with Lab
EENG 5532G	Wireless Communications
EENG 5540G	Communication Systems with Lab
MATH 5335G	Intermediate Linear Algebra
MATH 5530G	Mathematics for Scientists and Engineers
MENG 5090G	Selected Topics in Mechanical Engineering
MENG 5134G	Vehicle Dynamics
MENG 5135G	Vibration and Preventive Maintenance
MENG 5136G	Introduction to Finite Element Analysis
MENG 5137G	Mechanical System Design
MENG 5138G	Composite Materials: Manufacturing, Analysis, and Design
MENG 5139G	Renewable Energy
MENG 5231G	Tribology and Reliability
MENG 5233G	Wind Energy
MENG 5234G	Heating, Ventilating, and Air Conditioning
MENG 5237G	Applied Combustion
MENG 5238G	Engine Development and Performance
MENG 5239G	Biofuels Development and Testing
MENG 5331G	Automation and Computer Integrated Manufacturing Systems
MENG 5532G	Nanomaterials, Nanocomposites & Nanotechnology
MENG 5333G	Robot Dynamics, Design and Analysis
MENG 5335G	Applied Programmable Logic Controllers
MENG 5431G	Compressible Flow
MENG 5432G	Applied Computational Fluid Dynamics
MENG 5433G	Analysis of Energy Systems
MENG 5434G	Heat Transfer Principles and Applications
MENG 5531G	Metalcasting
MENG 5533G	Applied Welding and Joining
MENG 5536G	Mechanical Controls

MENG 5811G	Introduction to Mechanical Engineering Research and Projects
MENG 5822G	Research Project in Mechanical Engineering
MENG 5891G	Special Problems in Mechanical Engineering
MENG 7138	Mechatronics II
MENG 7431	Mechanics of Deformable Solids
MENG 7432	Fracture Mechanics
MENG 7890	Selected Topics in Mechanical Engineering
MENG 7891	Special Problems in Mechanical Engineering
MFGE 5230G	International Manufacturing
MFGE 5333G	Additive Manufacturing Studio
MFGE 5533G	Heat Treatment and Microstructure of Metal
MFGE 5535G	NanoManufacturing
TMAE 7431	Advanced Quality Control
TMAE 7432	Advanced Engineering Economy
TMAE 7531	Technical Management and Leadership
TMFG 5133G	Automated Manufacturing Systems
TMFG 5233G	Manufacturing Applications in Information Technology

Additional electives as approved by the department graduate program coordinator and/or department chair

Capstone Activity **6**

MENG 7895 Independent Study

Additional Technical Elective

Other Non-Thesis Track Requirements:

Comprehensive Exam

Total Credit Hours 30

Other Program Requirements (Non-Thesis Track)

- Each candidate in the Non-Thesis Track of MSME Program must have accomplished the following:
 - Identified an adviser and formed a Project Committee by completion of MENG 5811G.
 - Determine topic of research project, and present research proposal to their Project Committee by completion of MENG 5822G.
- Each candidate must receive approval from the Graduate Director or Department Chair of the Mechanical Engineering to take courses that are not named specifically as degree electives.
- Each candidate must complete their project on a subject approved by his/her committee.
 - The comprehensive exam of the research project must be announced to public one week prior to the defense. The comprehensive exam must be presented at a public exit seminar.
 - The comprehensive exam must be defended before the committee.
 - The comprehensive examination may include questions on the project, and subject matter related to the research project, and course work.
 - In addition to the comprehensive exam, the student must provide the adviser with all forms of the data that were collected, including: electronic files, and a written document detailing the contents of the data.

- The degree is conferred at the end of the semester, after the student has passed the comprehensive exam and the final written version of the project report has been approved by the committee and accepted by the graduate college.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Mechanical Engineering M.S.M.E. (Thesis)

Degree Requirements: 30 Credit Hours (Thesis)

Admission Requirements

Regular Admission

- Completed requirements for the bachelor's degree or the equivalent in the proposed or closely related field of study in Mechanical Engineering.
- A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
- International students must meet College of Graduate Studies English Proficiency requirements (6.0 IELTS or 80 on TOFEL).

Provisional Admission

A student may be granted provisional admission based upon the recommendation of the Master of Science in Mechanical Engineering Graduate Coordinator and department chair.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available.

Program of Study ¹

	Credit Hours
Core Requirements	9
MENG 7137 Principles of Modeling and Simulation	
MENG 7530 Research in Mechanical Engineering	
MENG 7136 Mechatronics I	
Elective Requirements	15
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator. Any appropriate course outside of the department approved by both the graduate program director and the department chair.	
EENG 5341G Robotic Systems Design w/Lab	
EENG 5342G Computer Systems Design w/Lab	
EENG 5431G Control Systems with Lab	
EENG 5532G Wireless Communications	
EENG 5540G Communication Systems with Lab	

MATH	5335G	Intermediate Linear Algebra
MATH	5530G	Mathematics for Scientists and Engineers
MENG	5134G	Vehicle Dynamics
MENG	5090G	Selected Topics in Mechanical Engineering
MENG	5135G	Vibration and Preventive Maintenance
MENG	5136G	Introduction to Finite Element Analysis
MENG	5137G	Mechanical System Design
MENG	5138G	Composite Materials: Manufacturing, Analysis, and Design
MENG	5139G	Renewable Energy
MENG	5231G	Tribology and Reliability
MENG	5233G	Wind Energy
MENG	5234G	Heating, Ventilating, and Air Conditioning
MENG	5237G	Applied Combustion
MENG	5238G	Engine Development and Performance
MENG	5239G	Biofuels Development and Testing
MENG	5331G	Automation and Computer Integrated Manufacturing Systems
MENG	5333G	Robot Dynamics, Design and Analysis
MENG	5335G	Applied Programmable Logic Controllers
MENG	5431G	Compressible Flow
MENG	5432G	Applied Computational Fluid Dynamics
MENG	5433G	Analysis of Energy Systems
MENG	5434G	Heat Transfer Principles and Applications
MENG	5531G	Metalcasting
MENG	5532G	Nanomaterials, Nanocomposites & Nanotechnology
MENG	5533G	Applied Welding and Joining
MENG	5536G	Mechanical Controls
MENG	5891G	Special Problems in Mechanical Engineering
MENG	7138	Mechatronics II
MENG	7239	Intermediate Fluid Mechanics
MENG	7431	Mechanics of Deformable Solids
MENG	7432	Fracture Mechanics
MENG	7890	Selected Topics in Mechanical Engineering
MENG	7891	Special Problems in Mechanical Engineering

MENG	7895	Independent Study
MFGE	5230G	International Manufacturing
MFGE	5333G	Additive Manufacturing Studio
MFGE	5533G	Heat Treatment and Microstructure of Metal
TMAE	7431	Advanced Quality Control
TMAE	7432	Advanced Engineering Economy
TMAE	7531	Technical Management and Leadership
TMFG	5133G	Automated Manufacturing Systems
TMFG	5233G	Manufacturing Applications in Information Technology
Additional restricted electives as approved by the graduate program coordinator and/or department chair		
Capstone Activity (Thesis)		6
MENG	7999	Thesis
Other Thesis Track Requirements: Comprehensive Exam		
Comprehensive Exam		
Total Credit Hours		30

¹ A minimum of 50% of courses for the Master of Science in Mechanical Engineering degree must be taken at or above the 6000 level.

Thesis

Each candidate for the Master of Science in Mechanical Engineering Thesis Track degree must complete a thesis on a subject approved by the adviser. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by thesis committee. The thesis must be presented and defended in an oral examination before committee of at least three members prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Mechanical Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the ETD format check submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.
- Thesis will be announced and defended by calendar.

See the *Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing* (latest version at the COGS Electronic Theses and Dissertation website).

Other Program Requirements (Thesis)

1. Each candidate in the Thesis Track of MSME Program must have accomplished the following by the end of their second academic semester in the MSME program to maintain program eligibility:
 - Identify a research adviser (thesis committee chair) and form a thesis committee.

- Determine a research topic for their thesis, and present a research proposal to their thesis committee for topic approval.
2. Each candidate must receive approval from the Graduate Director or Department Chair of the Mechanical Engineering to take courses that are taught outside of the Mechanical Engineering Program and/or specifically identified in M.S. in Mechanical Engineering degree program .
 3. Each candidate of the MSME must complete a thesis on a subject approved by his/her thesis committee.
 - The thesis defense must be announced to the public one week prior to the defense. The thesis must be submitted to Thesis Committee, and presented at a public seminar.
 - The thesis must be defended before the thesis committee.
 - The thesis defense is a comprehensive oral examination that may include questions on the thesis, and subject matter related to the thesis, and course work.
 - In addition to the thesis, the student must provide the faculty research adviser with all forms data that was collected, including: electronic files, and a written document detailing the contents of the data.
 - The degree is conferred at the end of the semester, after the student has passed the thesis defense and the final written version of the thesis has been approved by the College of Graduate Studies.

program upon approval of an admissions committee consisting of at least the Department Chair and the Graduate Program director.

Degree Requirements: 30 Credit Hours (Thesis)

1. Student in the ABM program will be allowed to use up to 9 credits MENG 5000G level courses offered within the Mechanical Engineering program in meeting the requirements of both a bachelor's degree and a master's degree.
2. The 9 credit hours that will be applied to both the bachelor's and master's degrees include: MENG 5811G, MENG 5822G, and two MENG 5000G level courses approved by each student's research advisor and the the Mechanical Engineering Department's graduate program coordinator.
3. Maintain a cumulative graduate GPA of 3.0 (grade of "B" or better) in their graduate degree course work (including the 9 credits of graduate course work shared with the undergraduate degree).
4. Meet all requirements for both B.S.M.E. and M.S.M.E. degrees.
5. A minimum of 50% of courses for the Master of Science in Mechanical Engineering degree must be taken at or above the 6000 level.

Thesis Track, 30 Credit Hours

Accelerated Bachelor's to Master's (ABM) Degree

This Accelerated Bachelor's to Masters Degree Program is intended for current undergraduate students in the Department of Mechanical Engineering at the Georgia Southern University. It will produce a pathway to earn both a Bachelor's and a Master's Degree within five years.

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **MSME-ABM** program combines **130** hours from the **BSME program** and **30** hours from the **MSME program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, **MSME-ABM** students may share a maximum of **9** credit hours of graduate level courses (5000G) in satisfying the requirements of both degree programs.

Admission Requirements

Regular Admission

For regular admission to the Accelerated Bachelor's to Masters Degree of Science in Mechanical Engineering (ABM-MSME) degree program, the applicant must:

1. Be enrolled in the undergraduate mechanical engineering program (B.S.M.E) in the Department of Mechanical Engineering at the Georgia Southern University.
2. Have completed no less than 25 and no more than 50 credits of ENGR and MENG courses, or permission of Department Chair.
3. Must have 3.0 or better Georgia Southern Institutional GPA.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students. Students who do not meet the minimum requirements for regular admission may be granted admission to the

	Credit Hours
Core Requirements	9
MENG 7137 Principles of Modeling and Simulation	
MENG 7530 Research in Mechanical Engineering	
MENG 7136 Mechatronics I	
Elective Requirements	15
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator. Any appropriate course outside of the department approved by both the graduate program director and the department chair.	
EENG 5341G Robotic Systems Design w/Lab	
EENG 5342G Computer Systems Design w/Lab	
EENG 5431G Control Systems with Lab	
EENG 5532G Wireless Communications	
EENG 5540G Communication Systems with Lab	
MATH 5335G Intermediate Linear Algebra	
MATH 5430G Introduction to Mathematical Biology	
MENG 5090G Selected Topics in Mechanical Engineering	
MENG 5134G Vehicle Dynamics	
MENG 5135G Vibration and Preventive Maintenance	
MENG 5136G Introduction to Finite Element Analysis	
MENG 5137G Mechanical System Design	
MENG 5138G Composite Materials: Manufacturing, Analysis, and Design	
MENG 5139G Renewable Energy	
MENG 5231G Tribology and Reliability	
MENG 5233G Wind Energy	

MENG 5234G	Heating, Ventilating, and Air Conditioning
MENG 5237G	Applied Combustion
MENG 5238G	Engine Development and Performance
MENG 5239G	Biofuels Development and Testing
MENG 5331G	Automation and Computer Integrated Manufacturing Systems
MENG 5335G	Applied Programmable Logic Controllers
MENG 5333G	Robot Dynamics, Design and Analysis
MENG 5431G	Compressible Flow
MENG 5432G	Applied Computational Fluid Dynamics
MENG 5433G	Analysis of Energy Systems
MENG 5434G	Heat Transfer Principles and Applications
MENG 5531G	Metalcasting
MENG 5532G	Nanomaterials, Nanocomposites & Nanotechnology
MENG 5533G	Applied Welding and Joining
MENG 5536G	Mechanical Controls
MENG 5811G	Introduction to Mechanical Engineering Research and Projects
MENG 5822G	Research Project in Mechanical Engineering
MENG 5891G	Special Problems in Mechanical Engineering
MENG 7138	Mechatronics II
MENG 7239	Intermediate Fluid Mechanics
MENG 7431	Mechanics of Deformable Solids
MENG 7432	Fracture Mechanics
MENG 7890	Selected Topics in Mechanical Engineering
MENG 7891	Special Problems in Mechanical Engineering
MENG 7895	Independent Study
MFGE 5230G	International Manufacturing
MFGE 5333G	Additive Manufacturing Studio
MFGE 5533G	Heat Treatment and Microstructure of Metal
TMAE 7431	Advanced Quality Control
TMAE 7432	Advanced Engineering Economy
TMAE 7531	Technical Management and Leadership
TMFG 5133G	Automated Manufacturing Systems
TMFG 5233G	Manufacturing Applications in Information Technology
Additional restricted electives as approved by the graduate program coordinator and/or department chair	
Capstone Activity (Thesis)	6
MENG 7999	Thesis

Other Thesis Track Requirements: Comprehensive Exam

Comprehensive Exam	
Total Credit Hours	30

Thesis

Each candidate for the Master of Science in Mechanical Engineering Thesis Track degree must complete a thesis on a subject approved by the adviser. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by a thesis committee. The thesis must be presented and defended in an oral examination before committee of at least three faculty members prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Mechanical Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the ETD format check submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.
- Thesis will be announced and defended by calendar.

See the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing (latest version at the COGS Electronic Theses and Dissertation website).

Other Program Requirements (Thesis)

1. Each candidate in the ABM Thesis Track of MSME Program must have accomplished the following :
 - Identify a research adviser and form a thesis committee by completion of MENG 5811G.
 - Determine a research topic for their thesis, and present research proposal to their thesis Committee by completion of MENG 5822G.
2. Each candidate must receive approval from the Graduate Director or Department Chair of the Mechanical Engineering to take courses that are taught outside of the Mechanical Engineering Program and/or do not apply to the M.S. in Mechanical Engineering degree.
3. Each candidate of the ABM must complete a thesis on a subject approved by his/her thesis committee.
 - The thesis defense must be announced to the public one week prior to the defense. The thesis must be submitted to Thesis Committee, and presented at a public exit seminar.
 - Thesis must be defended before the thesis committee.
 - The thesis defense is a comprehensive examination that may include questions on the thesis, and subject matter related to the thesis, and course work.
 - In addition to the thesis, the student must provide the adviser with all forms of the data that were collected, including: electronic files, and a written document detailing the contents of the data.
 - The degree is conferred at the end of the semester, after the student has passed the thesis defense and the final written version of the thesis has been approved by the College of Graduate Studies.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Waters College of Health Professions

Vision

The vision of the Waters College of Health Professions is to become the leader in the preparation of health professionals who are engaged in transformational thinking and evidence-based practices that impact the health and quality of life for individuals, families, and communities. We will accomplish this vision through a focus on: high academic expectations, individual responsibility for academic achievement, student-centered teaching and learning, impacting regional and global communities, interdisciplinary collaboration, innovative healthcare technology, experiential learning, community-engaged service and scholarship.

Mission

The mission of the Waters College of Health Professions is to prepare future health professionals through academic excellence and interdisciplinary collaboration while advancing knowledge through scholarship and serving culturally diverse communities.

College Structure

- Department of Diagnostic and Therapeutic Sciences (p. 169)
- Department of Health Sciences and Kinesiology (p. 170)
- Department of Rehabilitation Sciences (p. 182)
- School of Nursing (p. 188)

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Programs

Master's

- Communication Sciences and Disorders M.S. (p. 182)
- Kinesiology M.S. (Concentration in Athletic Training) (Non-Thesis) (p. 172)
- Kinesiology M.S. (Concentration in Athletic Training) Thesis (p. 172)
- Kinesiology M.S. (Concentration in Coaching) (Online) (p. 173)

- Kinesiology M.S. (Concentration in Exercise Science) (Thesis and Non-Thesis) (p. 173)
- Kinesiology M.S. (Concentration in Physical Education) (Online) (p. 174)
- Kinesiology M.S. (Concentration in Sport and Exercise Psychology) (Non-Thesis) (p. 175)
- Kinesiology M.S. (Concentration in Sport and Exercise Psychology) (Thesis) (p. 176)
- Master of Health Administration M.H.A. (p. 177)
- Nursing M.S.N. (Online) (p. 195)
- Sport Management M.S. (Online) (p. 178)
- Sports Medicine M.S.S.M. (Concentration in Strength Conditioning) (p. 180)
- Sports Medicine M.S.S.M. (Emphasis in Human Movement Science) (p. 179)

Doctoral

- Doctor of Nursing Practice D.N.P. (Online) (p. 191)
- Nursing BSN to DNP (p. 193)
- Physical Therapy D.P.T. (p. 185)

Certificates

- Adult/Gerontology Acute Care Nurse Practitioner Post-MSN Certificate (p. 189)
- Adult/Gerontology Primary Care Nurse Practitioner Post-MSN Certificate (p. 190)
- Family Nurse Practitioner Post-MSN Certificate (p. 192)
- Gerontology Graduate Certificate (p. 171)
- Psychiatric Mental Health Nurse Practitioner Post-MSN Certificate (p. 196)
- Strength and Conditioning Graduate Certificate (p. 181)

Dean: Dr. A. Barry Joyner
Statesboro Campus: Room 2123 Hollis Building
P.O. Box 8073; 30460
(912) 478-5322
Armstrong Campus in Savannah: Ashmore Hall 131
Department #4073
11935 Abercorn Street
Savannah, Georgia 31419
(912) 344-2565

Associate Dean: Dr. Stephen J. Rossi
Statesboro Campus: Room 2123-B Hollis Building
P.O. Box 8073
Statesboro, Georgia 30460
(912) 478-5322

Associate Dean: Dr. Sara Plaspohl
Armstrong Campus in Savannah: Ashmore Hall 131
11935 Abercorn Street
Department #4073
Savannah, Georgia 31419
(912) 344-2565

chp.georgiasouthern.edu (<http://chp.georgiasouthern.edu/>)

Department of Diagnostic and Therapeutic Sciences

The Department of Diagnostic and Therapeutic Sciences at Georgia Southern University offers bachelor and degree completion programs in the high tech fields of medical laboratory science, radiologic sciences

and respiratory therapy. All programs offer options for completing the coursework either fully or substantially online.

Mission Statement

The Department of Diagnostic and Therapeutic Sciences, as part of the Waters College of Health Professions at Georgia Southern University, exists to educate students, and to provide our culturally diverse communities with competent, team-oriented and compassionate healthcare professionals.

Core Values

Core Value 1: The Department of Diagnostic and Therapeutic Sciences faculty is dedicated to providing excellence in health professions education through an interdisciplinary approach.

Core Value 2: The Department of Diagnostic and Therapeutic Sciences faculty participate in a team-oriented approach to learning and instruction for the advancement of integrated healthcare education.

Core Value 3: The Department of Diagnostic and Therapeutic Sciences faculty provide a student-learning environment committed to fostering culturally sensitive and compassionate professional community service.

Contact

Dr. Laurie Adam, Interim Department Head
Georgia Southern University Armstrong Campus in Savannah

Ashmore Hall 103
Department #4901
11935 Abercorn Street
Savannah, GA 31419
chp.georgiasouthern.edu/diagnostic/ (<https://chp.georgiasouthern.edu/diagnostic/>)

Medical Laboratory Science

Phone: (912) 344-2549
Fax: (912) 344-3472

Radiologic Sciences

Phone: (912) 344-2802
Fax: (912) 344-3442

Respiratory Therapy

Phone: (912) 344-2549
Fax: (912) 344-3472

Programs

Master's

No results were found.

Doctoral

No results were found.

Certificates

No results were found.

Endorsements

No results were found.

Department of Health Sciences and Kinesiology

The Department of Health Sciences and Kinesiology at Georgia Southern University promotes undergraduate and graduate education, scholarship and research, and prepares students who are interested in entering a health field, as well as experienced health professionals who wish to further their career opportunities.

Contact

Dr. John Dobson, Interim Department Chair & Associate Professor
Office: Statesboro Campus-Hollis Building 2115
Phone: (912) 478-0200
chp.georgiasouthern.edu/hk/ (<http://chp.georgiasouthern.edu/hk/>)

Georgia Southern University Armstrong Campus in Savannah

Department #4076
University Hall 154
11935 Abercorn Street
Savannah, GA 31419
Phone: (912) 344-2548
Fax: (912) 344-3490

Georgia Southern University Statesboro Campus

P.O. Box 8076
Hollis Building 2115
Statesboro, GA 30460
Phone: (912) 478-0200

Programs

Master's

- Kinesiology M.S. (Concentration in Athletic Training) (Non-Thesis) (p. 172)
- Kinesiology M.S. (Concentration in Athletic Training) Thesis (p. 172)
- Kinesiology M.S. (Concentration in Coaching) (Online) (p. 173)
- Kinesiology M.S. (Concentration in Exercise Science) (Thesis and Non-Thesis) (p. 173)
- Kinesiology M.S. (Concentration in Physical Education) (Online) (p. 174)
- Kinesiology M.S. (Concentration in Sport and Exercise Psychology) (Non-Thesis) (p. 175)
- Kinesiology M.S. (Concentration in Sport and Exercise Psychology) (Thesis) (p. 176)
- Master of Health Administration M.H.A. (p. 177)
- Sport Management M.S. (Online) (p. 178)
- Sports Medicine M.S.S.M. (Concentration in Strength Conditioning) (p. 180)
- Sports Medicine M.S.S.M. (Emphasis in Human Movement Science) (p. 179)

Certificates

- Gerontology Graduate Certificate (p. 171)
- Strength and Conditioning Graduate Certificate (p. 181)

Athletic Training M.S.A.T

Athletic Training M.S. (MSAT)

Degree Requirements: 60 Credit Hours

Program Description:

Admission Requirements:

- Bachelor's degree
- Admission to Georgia Southern University College of Graduate Studies
- GRE scores (280) (Writing 3.5)
- Minimum GPA 3.0
- Submit Graduate Athletic Training Student Application - ATCAS (<https://atcas.liaisoncas.com/applicant-ux/#/login>)
- Submit copy of writing sample
- Three Reference Letters
- Documentation of at least 100 observation hours with a Certified Athletic Trainer (ATC)
- Program interview - In person or on video conference
- Completed Technical Standards Form
- Official transcripts from All other colleges/universities attended
- Proof of immunizations
- Hepatitis-B vaccination

Grade of C or better in all prerequisites or approved similar courses

- Biology
- Chemistry
- Anatomy & Physiology I and II
- Physics
- Biomechanics
- General Psychology
- One additional Psychology course (Abnormal/Developmental)
- Medical Terminology
- Research Methods
- Nutrition
- Structural Kinesiology
- Exercise Physiology

Program of Study

Degree Requirements

Required Courses	Credit Hours
60	
Summer Term 1st Year	
ATTR 6181	Emergency Care in Athletic Training
ATTR 6111	Athletic Taping, Bracing, and Casting
ATTR 6121	Research Methods in Athletic Training
ATTR 7211	Psychosocial Issues in Athletic Training
Fall Term 1st Year	
ATTR 6240	Lower Extremity Evaluation
ATTR 6340	Lower Extremity Therapeutic Interventions
ATTR 6730	Athletic Training Clinical Education I
Spring Term 1st Year	
ATTR 6241	Upper Extremity Evaluation

ATTR 6341	Upper Extremity Therapeutic Interventions
ATTR 6731	Athletic Training Clinical Education II
Summer Term 2nd Year	
ATTR 7140	Spine Evaluation & Therapeutic Interventions
ATTR 7130	General Medical Conditions in Athletic Training
ATTR 7730	Athletic Training Clinical Education III
Fall Term 2nd Year	
ATTR 7230	Research Writing in Athletic Training
ATTR 7210	Pharmacology in Athletic Training
ATTR 7220	Organization & Administration in Athletic Training
ATTR 7731	Athletic Training Clinical Education IV
Spring Term 2nd Year	
ATTR 7790	Athletic Training Clinical Education V
ATTR 7310	Graston Application for Athletic Training
Total Credit Hours	60

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Gerontology Graduate Certificate

Certificate Requirements: 18 Credit Hours

Admission Standards

- Completed requirements for a baccalaureate degree from a regionally-accredited institution.
- A student must be admitted to Graduate Studies on a degree or certificate basis.

Standards of Progression and Completion

- Each student will file a program of study with Graduate Studies.
- A minimum overall grade point average of B or better must be earned for the certificate to be awarded on the graduate level.
- Each student will successfully complete an oral comprehensive assessment (administered each semester on a predetermined date).

Program of Study

Required Courses	Credit Hours
9	
GERO 5500G	Survey Of Gerontology
GERO 5510G	Healthy Aging
GERO 5520G	Gerontology Practicum

Select 9 credit hours of approved electives at the 5000G level or higher.	9
Total Credit Hours	18

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Kinesiology M.S. (Concentration in Athletic Training) (Non-Thesis)

Degree Requirements: 36 Credit Hours

Admission Requirements

1. A minimum of a Bachelor's degree from an accredited institution.
2. Graduation from a CAATE accredited Athletic Training program or a Certified Athletic Trainer.
3. Minimum undergraduate grade point average (GPA) of 3.0 (**this is a change from the 2.75 minimum**).
4. GRE scores within the past five years.

NOTE: Prerequisite undergraduate coursework may be required. Contact the Graduate Program Director in the Department of Health & Kinesiology for complete information.

NOTE: Achievement of the minimum admission requirements of the College of Graduate Studies and requirements of the graduate program does not guarantee admission to the graduate degree program.

Requirements

	Credit Hours
Investigative Core	6
KINS 6130 Research Design in Kinesiology	
KINS 6131 Data Analysis in Kinesiology	
Concentration	30
Athletic Training Concentration	
KINS 6137 Research Writing	
KINS 7235 Instrumentation and Techniques in Biochemics	
KINS 7334 Advanced Rehabilitation Skills in Athletic Training	
KINS 7336 Current Issues in Athletic Training	
KINS 7537 Evaluation and Rehabilitation of the Lumbar Spine	
KINS 7731 Clinical Practicum for Teaching Athletic Training Skills	
KINS 7732 Clinical Practicum for Evaluating Athletic Training Skills	
KINS 7898 Project in Athletic Training	
Guided Major Elective	
Total Credit Hours	36

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Kinesiology M.S. (Concentration in Athletic Training) Thesis

Degree Requirements: 36 Credit Hours

Admission Requirements

1. A minimum of a Bachelor's degree from an accredited institution.
2. Graduation from a CAATE accredited Athletic Training program or a Certified Athletic Trainer.
3. Minimum undergraduate grade point average (GPA) of 3.0 (**this is a change from the 2.75 minimum**).
4. GRE scores within the past five years.

NOTE: Prerequisite undergraduate coursework may be required. Contact the Graduate Program Director in the Department of Health & Kinesiology for complete information.

NOTE: Achievement of the minimum admission requirements of the College of Graduate Studies and requirements of the graduate program does not guarantee admission to the graduate degree program.

Program of Study

	Credit Hours
Investigative Core	6
KINS 6130 Research Design in Kinesiology	
KINS 6131 Data Analysis in Kinesiology	
Concentration	
Athletic Training Concentration	30
KINS 6137 Research Writing	
KINS 7235 Instrumentation and Techniques in Biochemics	
KINS 7334 Advanced Rehabilitation Skills in Athletic Training	
KINS 7336 Current Issues in Athletic Training	
KINS 7537 Evaluation and Rehabilitation of the Lumbar Spine	
KINS 7731 Clinical Practicum for Teaching Athletic Training Skills	
KINS 7732 Clinical Practicum for Evaluating Athletic Training Skills	
KINS 7999 Thesis	
Program Approved Electives	
Total Credit Hours	36

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more

information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Kinesiology M.S. (Concentration in Coaching) (Online)

Degree Requirements: 36 Credit Hours (Online)

Admission Requirements

1. Completion of a Bachelor's degree from an accredited institution.
2. Regular admission will be considered for students with a grade point average (GPA) of 2.75 (4.0 scale) for the last 60 credit hours of their undergraduate degree.
3. A College of Graduate Studies Online Application.
4. A full vita or resume that includes the following:
 - Work history,
 - Professional experiences,
 - Membership and participation in professional organizations,
 - Other experiences related to coaching,
 - Contact information for a minimum of three references

Provisional admission will be considered for students with a minimum grade point average (GPA) of 2.5 (4.0 scale) for the last 60 hours of their undergraduate degree.

Additional Requirements: This program starts in May and students will not be allowed to begin the program in the Fall or Spring semester. All students must be coaching while in the program.

Application Deadline: Application received by April 1 will receive first consideration.

NOTE: Achievement of the minimum admission requirements of the College of Graduate Studies and requirements of the graduate program does not guarantee admission to the graduate degree program.

NOTE: This concentration does not require GRE scores.

Program of Study

Course Requirements		Credit Hours
KINS 6132	Research Methods	3
KINS 7135	Sport Coaching Pedagogy	3
KINS 7136	Sociocultural Foundations of Sport Coaching	3
KINS 7137	Scientific Foundations of Human Performance	3
KINS 7138	Practical Applications of Human Performance	3
KINS 7430	Administrative Issues in Coaching	3
KINS 7433	Prevention, Recognition and Care of Athletic Injuries	3
KINS 7434	Current Issues in Coaching	3
KINS 7437	Analysis of Teaching Physical Education	3

KINS 7530	Psychology of Sport and Exercise Performance	3
KINS 7531	Team Dynamics	3
KINS 7730	Practicum in Coaching	3
Total Credit Hours		36

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Kinesiology M.S. (Concentration in Exercise Science) (Thesis and Non-Thesis)

Degree Requirements: 36 Credit Hours

Admission Requirements

1. Completion of a Bachelor's degree from an accredited institution. A degree in Exercise Science is preferred, but it is not required*.
2. Minimum grade point average (GPA) of 3.0 (4.0 scale).
3. A concise, 1-2 page, well-written personal statement that describes your professional goals.
4. A full vitae or resume that includes the following:
 - Work history
 - Professional experiences
 - Membership and participation in professional organizations
 - Other experiences related to the academic program
 - Contact information for a minimum of three references

Note: the admissions process is competitive and applicants that meet the requirements described above are not guaranteed admission.

NOTE: Prerequisite undergraduate coursework may be required. Contact the Graduate Program Director in the Department of Health & Kinesiology for complete information.

NOTE: Achievement of the minimum admission requirements of the College of Graduate Studies and requirements of the graduate program does not guarantee admission to the graduate degree program

* Prerequisite coursework may be required of candidates that have not completed any exercise science courses. Contact the coordinator for the M.S. in Exercise Science program, for more information.

Program of Study Thesis

		Credit Hours
Investigative Core		6
KINS 6130	Research Design in Kinesiology	
KINS 6131	Data Analysis in Kinesiology	
Concentration		
Exercise Science Concentration		21

KINS 7230	Advanced Exercise Physiology	
KINS 7231	Laboratory Techniques in Exercise Physiology	
KINS 7234	Clinical Applications of Biomechanics	
KINS 7235	Instrumentation and Techniques in Biochemics	
KINS 7238	Human Performance and Nutrition	
KINS 7999	Thesis	
Guided Major Electives		9
Choose 9 credit hours of Guided Electives		
Total Credit Hours		36

Program of Study Non-Thesis

	Credit Hours
Investigative Core	6
KINS 6130	Research Design in Kinesiology
KINS 6131	Data Analysis in Kinesiology
Concentration	
Exercise Science Concentration ¹	15
KINS 7230	Advanced Exercise Physiology
KINS 7231	Laboratory Techniques in Exercise Physiology
KINS 7234	Clinical Applications of Biomechanics
KINS 7235	Instrumentation and Techniques in Biochemics
KINS 7238	Human Performance and Nutrition
Guided Major Electives	15
Choose 15 credit hours of Guided Electives	
Total Credit Hours	36

Comprehensive Exam ¹

All students in the M.S. in Kinesiology – Exercise Science (ES) program non-thesis track must successfully complete the Comprehensive Exam. This includes any ES student that switches from the thesis track to the non-thesis track. The M.S. in Kinesiology – Exercise Science Program Coordinator will initiate a Comprehensive Exam after verifying that the student: is enrolled in the non-thesis track of the ES program, and has earned a minimum of a C in KINS 6130, KINS 6131, KINS 7230, KINS 7231 and KINS 7235, and has at least a 3.0 GPA in the program, and is making satisfactory progress in current coursework, and is within 6 months of anticipated graduation. The Program Coordinator will work with one to three other faculty members in the ES program to develop questions that integrate content from the KINS 6130, KINS 6131, KINS 7230, KINS 7231, KINS 7235 and ES electives courses.

The Comprehensive Exam must be administered no less than one month before the end of the semester. The Program Coordinator will work with the student to schedule the specific date of her/his Exam. The student will have no less than three hours, but no more than eight hours, to complete the Comprehensive Exam. The Program Coordinator will work with the contributing faculty members to determine the results of the Comprehensive Exam. The Coordinator will meet with the student to discuss the results with her/him. If the student fails the Comprehensive Exam, she/he will be given only one opportunity to retake the same or similar Exam. The repeat Exam must be completed within three weeks of the first attempt. If the student does not perform satisfactorily on the second attempt, she/he will be withdrawn from the M.S. in Kinesiology – Exercise Science program.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information

regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Kinesiology M.S. (Concentration in Physical Education) (Online)

Degree Requirements: 36 Credit Hours (Online)

Admission Requirements

1. Completion of a Bachelor's degree from an accredited institution.
2. Must possess a clear renewable (professional) teaching certificate in Physical Education or Health-Physical Education before starting the graduate program.
3. Minimum grade point average (GPA) of 2.75 (4.0 scale).
4. A full vitae or resume that includes the following:
 - a. Work history,
 - b. Professional experiences,
 - c. Membership and participation in professional organizations,
 - d. Other experiences related to the academic program, and
 - e. Contact information for a minimum of three references.
5. A personal writing sample that includes a description of teaching experiences and accomplishments, reasons for interest in the graduate program at Georgia Southern University, and career goals for the next five years. The written sample should outline the strengths and experiences that the applicant would bring to the graduate program.
6. A lesson plan and formal assessment designed for a K-12 setting in Physical Education. The applicant may choose any activity that is taught in the K-12 Physical Education curriculum.
7. A phone, internet, or in-person interview with Physical Education graduate coordinator.
8. Graduate Record Examination (GRE) scores are not required.

Provisional

1. Completion of a Bachelor's degree from an accredited institution
2. Must possess a clear renewable (professional) teaching certificate in Physical Education or Health-Physical Education before starting the graduate program.
3. Minimum grade point average (GPA) of 2.5 (4.0 scale).
4. A full vitae or resume that includes the following:
 - a. Work history,
 - b. Professional experiences,
 - c. Membership and participation in professional organizations,
 - d. Other experiences related to the academic program, and
 - e. Contact information for a minimum of three references.
5. A personal writing sample that includes a description of teaching experiences and accomplishments, reasons for interest in the graduate program at Georgia Southern University, and career goals for the next five years. The written sample should outline the strengths and experiences that the applicant would bring to the graduate program.
6. A lesson plan and formal assessment designed for a K-12 setting in Physical Education. The applicant may choose any activity that is taught in the K-12 Physical Education curriculum.

7. A phone, internet, or in-person interview with Physical Education graduate coordinator.
8. Graduate Record Examination (GRE) scores are not required.

**Achievement of the minimum admission requirements of the College of Graduate Studies and requirements of the graduate program does not guarantee admission to that graduate degree program.*

Program of Study

Requirements	Credit Hours
	36
HLTH 6133 School Health Education Methods	
KINS 6132 Research Methods	
KINS 6234 Adapted Physical Education Methods	
KINS 7437 Analysis of Teaching Physical Education	
KINS 7535 Fitness and Wellness Education	
KINS 7536 Assessment and Technology in Physical Education	
or ITEC 5233G Foundations of Technology-Enabled Learning	
KINS 7590 Action Research in Physical Education	
KINS 8430 Supervision of Instruction in Physical Education	
KINS 8431 Curriculum Issues and Trends in Physical Education	
KINS 8432 Advanced Teaching Techniques in Health and Physical Education	
KINS 8433 Advanced Methods in Secondary Physical Education	
KINS 8434 Advanced Methods in Elementary Physical Education	
Total Credit Hours	36

Accelerated Bachelors to Masters (ABM) Kinesiology M.S. (Concentration in Physical Education)

Degree Requirements: 36 Credit Hours

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required for a Masters degree program. The **Kinesiology M.S. (Concentration in Physical Education) ABM program** combines **124** hours from the **Health and Physical Education B.S.Ed. (Certification Track) program** and **36** hours from the **Kinesiology M.S. (Concentration in Physical Education) program**, exceeding the required 150 unique hours between undergraduate and graduate degree programs by **10** hours. The *Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors* permits a maximum of **9** shared credit hours between the undergraduate and graduate degree programs. Therefore, **Kinesiology M.S. (Concentration in Physical Education)** ABM students may share a maximum of **9** credit hours of graduate level courses in satisfying the requirements of both degree programs. The graduate courses will include Foundations of Technology-Enabled Learning (ITEC 5233G), Analysis of Teaching Physical Education (KINS 7437) and Action Research in Physical Education (KINS 7590).

Admission Requirements

For regular admission to the Accelerated Bachelor's to **Kinesiology M.S. (Concentration in Physical Education)** ABM degree program, the applicant must have:

1. Enrollment as a current Georgia Southern undergraduate student majoring in **Health and Physical Education B.S.Ed. (Certification Track)**.
2. Between 75 and 95 (inclusive) credit hours completed in the undergraduate program; including the courses HLTH 3431, KINS 3432, KINS 3433, KINS 3436, and KINS 4440, each with a grade of C or better.
3. A 3.0 (4.0 scale) GPA or higher in undergraduate coursework.
4. A 3.0 (4.0 scale) GPA in **Health and Physical Education B.S.Ed. (Certification Track)** undergraduate coursework.
5. Must complete an application to the **Kinesiology M.S. (Concentration in Physical Education) program**.

ABM programs do not allow provisional admission. ABM programs are designed for students who have demonstrated a high level of undergraduate academic performance that validates their ability to be successful graduate students.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Kinesiology M.S. (Concentration in Sport and Exercise Psychology) (Non-Thesis)

Degree Requirements: 36 Credit Hours

Admission Requirements

Sport and Exercise Psychology Concentration

1. Completion of a Bachelor's degree from an accredited institution
2. Completion of prerequisite coursework may be required if degree major or minor is not in psychology or kinesiology/exercise science
3. Minimum grade point average (GPA) of 3.00 (4.0 scale)
4. A vitae or résumé that includes the following:
 - a. Work history,
 - b. Professional experiences,
 - c. Membership and participation in professional organizations,
 - d. Other experiences related to the academic program
5. A personal statement of no more than 3 pages that includes a description of previous professional experiences and accomplishments, career goals, and reasons for interest in the graduate program at Georgia Southern University.
6. Three letters of reference.
7. Completion of the online application for the College of Graduate Studies.

8. A phone, video-based, or in-person interview with the program director may be requested for some candidates after an initial review of submitted applications is completed.

Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Provisional Admission

1. Completion of a Bachelor's degree from an accredited institution
 - a. Completion of prerequisite coursework may be required if degree major or minor is not in psychology or kinesiology/exercise science
2. Grade point average (GPA) of 2.75-2.99 (4.0 scale)
3. A vitae or résumé that includes the following:
 - a. Work history,
 - b. Professional experiences,
 - c. Membership and participation in professional organizations,
 - d. Other experiences related to the academic program
4. A personal statement of no more than 3 pages that includes a description of previous professional experiences and accomplishments, career goals, and reasons for interest in the graduate program at Georgia Southern University.
5. Three letters of reference.
6. Completion of the online application for the College of Graduate Studies.
7. A phone, video-based, or in-person interview with the program director may be requested for some candidates after an initial review of submitted applications is completed

**Achievement of the minimum admission requirements of the College of Graduate Studies and requirements of the graduate program does not guarantee admission to that graduate degree program.*

Program of Study

	Credit Hours
Investigative Core	6
KINS 6130 Research Design in Kinesiology	
KINS 6131 Data Analysis in Kinesiology	
Concentration	
Sport and Exercise Psychology Concentration	30
KINS 7131 Ethical Issues in Sport and Exercise Psychology	
KINS 7530 Psychology of Sport and Exercise Performance	
KINS 7531 Team Dynamics	
KINS 7533 Sport and Exercise Psychology Interventions	
KINS 7539 Health and Exercise Psychology	
KINS 7733 Practicum in Sport and Exercise Psychology	
KINS 7799 Internship in Kinesiology	
Guided Electives ¹	
Total Credit Hours	36

¹ Can choose advisor-approved electives in counseling or kinesiology

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)

Kinesiology M.S. (Concentration in Sport and Exercise Psychology) (Thesis)

Degree Requirements: 36 Credit Hours

Admission Requirements

Sport and Exercise Psychology Concentration

1. Completion of a Bachelor's degree from an accredited institution
2. Completion of prerequisite coursework may be required if degree major or minor is not in psychology or kinesiology/exercise science
3. Minimum grade point average (GPA) of 3.00 (4.0 scale)
4. A vitae or résumé that includes the following:
 - a. Work history,
 - b. Professional experiences,
 - c. Membership and participation in professional organizations,
 - d. Other experiences related to the academic program, and
5. A personal statement of no more than 3 pages that includes a description of previous professional experiences and accomplishments, career goals, and reasons for interest in the graduate program at Georgia Southern University.
6. Three letters of reference.
7. Completion of the online application for the College of Graduate Studies.
8. A phone, video-based, or in-person interview with the program director may be requested for some candidates after an initial review of submitted applications is completed.

Provisional

1. Completion of a Bachelor's degree from an accredited institution
 - a. Completion of prerequisite coursework may be required if degree major or minor is not in psychology or kinesiology/exercise science
2. Grade point average (GPA) of 2.75-2.99 (4.0 scale)
3. A vitae or résumé that includes the following:
 - a. Work history,
 - b. Professional experiences,
 - c. Membership and participation in professional organizations,
 - d. Other experiences related to the academic program
4. A personal statement of no more than 3 pages that includes a description of previous professional experiences and accomplishments, career goals, and reasons for interest in the graduate program at Georgia Southern University
5. Three letters of reference
6. Completion of the online application for the College of Graduate Studies
7. A phone, video-based, or in-person interview with the program director may be requested for some candidates after an initial review of submitted applications is completed

**Achievement of the minimum admission requirements of the College of Graduate Studies and requirements of the graduate program does not guarantee admission to that graduate degree program.*

Program of Study

			Credit Hours
Investigative Core			6
KINS	6130	Research Design in Kinesiology	
KINS	6131	Data Analysis in Kinesiology	
Concentration			27
Sport and Exercise Psychology Concentration			
KINS	7131	Ethical Issues in Sport and Exercise Psychology	
KINS	7530	Psychology of Sport and Exercise Performance	
KINS	7531	Team Dynamics	
KINS	7533	Sport and Exercise Psychology Interventions	
KINS	7539	Health and Exercise Psychology	
KINS	7733	Practicum in Sport and Exercise Psychology	
KINS	7999	Thesis	
Elective(s)			3
Can choose advisor-approved electives in counseling or kinesiology			
Total Credit Hours			36

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Master of Health Administration M.H.A.

Degree Requirements: 52 Credit Hours Policies, Requirements and Standards

The objective of the Master of Health Administration degree is to provide the student with mastery of the knowledge and skills for the effective administration of health service organizations across the continuum of care. Specifically, the student will understand the basic organizational, financial, legal, and managerial components of health services as they relate to a dynamic and evolving healthcare delivery system.

Criminal Background Checks

Clinical agencies utilized by the Department of Health Sciences and Kinesiology and Program in Health Administration may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to initiate/complete the applied learning experience. Any fees or cost associated with background checks and/or drug testing is the responsibility of the student.

Admission Requirements

For consideration of admission to the MHA program, the applicant must complete an application for admission to the College of Graduate Studies at Georgia Southern University via HAMPCAS, submit official copies of all required academic transcripts related to undergraduate and graduate coursework at the time of program application, submit an updated professional/personal resume, detailing educational and work experiences for a period of not less than three (3) years from the time of application, and complete a structured admissions survey questionnaire. The applicant must also have satisfactorily completed requirements for the baccalaureate degree from a regionally-accredited institution.

Standards of Progression and Graduation

- A. All degree requirements must be completed within seven years.
- B. Students are encouraged to apply for graduation two semesters before the anticipated date of graduation. Note: A copy of the official program of study must accompany the candidate's application.

Program of Study

			Credit Hours
Course Requirements			
HADM	6100	U.S. Healthcare Systems	3
HADM	6150	Organization Theory / Organizational Behavior in Health Care	3
HADM	6200	Quantitative Analysis Methods for Healthcare Management I	3
HADM	6250	Healthcare Economics	3
HADM	6300	Healthcare Financial Management I	3
HADM	6350	Legal Environment of Health Care	3
HADM	6400	Fundamentals of Population Health Management	3
HADM	6425	Health Information Systems Management	3
HADM	6450	Human Resources Management in Healthcare	3
HADM	6500	Quality Management Methods in Healthcare	3
HADM	6600	MHA Professional Seminar I	1
HADM	7200	Quantitative Analysis Methods for Healthcare Management II	3
HADM	7250	Health Politics and Policy	3
HADM	7300	Healthcare Financial Management II	3
HADM	7500	Strategic Management and Marketing Healthcare Organizations	3
HADM	7550	MHA Capstone Project	3
HADM	7600	Ethics and Leadership in Health Administration	3
HADM	7700	MHA Internship / Residency	3
	or HADM 7725	MHA Practicum	
Total Credit Hours			52

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Sport Management M.S. (Online)

Degree Requirements: 36 Credit Hours

Program Description

The Sport Management Program at Georgia Southern University is an intensive two year, six semester course of study that prepares students to hold a wide range of careers in the sport industry. The general focus of the program is the management of sporting events, ranging from professional sport to youth sport. Entry level jobs in the industry include: game day operations, ticket sales, event management, facility staff, youth sports administration, marketing and promotions assistant, and a host of other options. Graduates of the Georgia Southern Sport Management program can be found working for professional sport teams, college athletic departments, regional and national sport commissions, leagues and associations and many other sport based organizations.

Admission Procedures

The Faculty of Sport Management will evaluate applicants on each of the following:

1. Provide a writing sample in the form of a Personal Statement. The Personal Statement should include an in-depth explanation of why you are pursuing this degree, why you are a good candidate for admission, how your experiences and knowledge can contribute to the online learning environment, what your career goals are over the next five years, and what has prepared you to succeed in the Sport Management graduate program at Georgia Southern. You are expected to address each of these topics. The Personal Statement needs to be a minimum of one page double-spaced but no more than two pages.
2. Provide transcripts showing the completion of a Bachelor's degree in a college or university accredited by the proper regional accrediting association. If applicant holds additional degrees or classes from accredited institutions, those transcripts must be submitted as well. The committee will review previous coursework that relates to the curriculum in the Master's in Sport Management program.
3. A minimum undergraduate GPA of 2.5 is required to be considered for admission into the program. An undergraduate GPA between 2.5 and 2.99 may result in admission with provisional status. Obtaining a GPA of 3.0 on a master's degree or at least 12 graduate credits may be assessed on the basis of master's-level degree work.
4. Resume will be used to review the quality of work experience and length of related professional experiences/internships.
5. Applicants should prepare a professional one-to-two minute video addressing the question "How will this degree impact your career path?"

*International transcripts must be evaluated by a NACES accredited evaluation service (www.naces.org (<http://www.naces.org>))

** Applications are only reviewed for the March and July deadlines by the Sport Management Committee

The Graduate Admissions Committee will judge the merit of each item and make a recommendation based on the sum total of the application.

Priority Application Deadline: Students interested in Teaching or Research Assistantships must apply by March 1 to receive considerations for open positions.

Application Deadline: All application materials must be received by July 1 to be considered for admission into the fall cohort.

Admission Cycle: The program follows a cohort model. Students accepted into the program will be admitted during the fall semester.

For additional information regarding admission to the program, including average GPA and test score information, please visit our website: <https://chp.georgiasouthern.edu/hk/graduate/sport-management/>

Program of Study

The Georgia Southern Sport Management program requires 36 credits for completion. Students are expected to enroll in six consecutive semesters to complete the program in two years. To earn their degree, students must complete 24 core credits and 12 credits from guided electives, nine (9) of which must be from the Sport Management program.

	Credit Hours
Core Sport Management Requirements ¹	24
Year 1 Core	
SMGT 6132 Current Trends in Sport Administration	
SMGT 6135 Revenue Generation in Sport	
SMGT 6335 Sport Administration	
SMGT 6337 Sport Facility and Event Management	
Year 2 Core	
SMGT 7330 Research and Analysis in Sport	
SMGT 7335 Sport Law and Risk Management	
SMGT 7337 Sport Marketing	
SMGT 7339 Financial and Strategic Management in Sport	
Guided Electives ²	12
Total Credit Hours	36

¹ Note: Students are required to enroll in summer classes. Students must enroll in six consecutive semesters to complete the program in two years.

² Students will complete 12 credits of guided electives. A minimum of nine (9) credits must be completed from SMGT graduate electives. A student may complete three (3) credits outside of the Sport Management program with Coordinator's approval.

Two Year Course Rotation

First Year					
Fall	Credit Hours	Spring	Credit Hours	Summer	Credit Hours
SMGT 6132		3 SMGT 6337		3 SMGT 6135	3
Elective		3 Elective		3 SMGT 6335	3
		6			6
Second Year					
Fall	Credit Hours	Spring	Credit Hours	Summer	Credit Hours
SMGT 7337		3 SMGT 7330		3 SMGT 7335	3
Elective		3 Elective		3 SMGT 7339	3
		6			6
Total Credit Hours 36					

Contact

For additional information regarding the Georgia Southern M.S. in Sport Management, please visit our website (<https://chp.georgiasouthern.edu/hk/graduate/sport-management/>).

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Sports Medicine M.S.S.M. (Emphasis in Human Movement Science)

Degree Requirements: 36 Credit Hours Policies, Requirements and Standards

The Master of Science in Sports Medicine (MSSM) degree at Georgia Southern University prepares leaders for the general field of sports medicine with advanced education in either Strength & Conditioning or Advanced Athletic Training.

The MSSM provides an interdisciplinary scientific background in sport and physical activity with a significant emphasis on work-related concepts and experiences. The educational experiences are designed utilizing evidence-based research to develop leaders in the scientific and clinical aspects of Sports Medicine.

Criminal Background Checks

Clinical agencies utilized by the Department of Health Sciences and Kinesiology and the Sports Medicine program may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their Program of Study. Any fees or costs associated with background checks and/or drug testing is the responsibility of the student.

Admission Standards

For consideration of admission to the MSSM program, the applicant must have completed an application for admission to the College of Graduate Studies at Georgia Southern University, submitted official copies of all academic transcripts related to undergraduate and graduate coursework at the time of program application, submitted official GRE scores, and prepared a formal Statement of Graduate Education Goals. Courses in statistics, research methods, anatomy and physiology are recommended. The applicant must also have:

1. Completed requirements for a baccalaureate degree from a regionally-accredited institution; AND
2. A minimum 2.80 cumulative undergraduate GPA; AND

3. GRE: No less than 146 Verbal AND 141 Quantitative. (See note under Admissions Examinations about using revised GRE scores after August 1, 2011.)

Note: In lieu of the above requirements, an earned doctorate or masters from a regionally-accredited institution may qualify the student for regular admission.

Standards of Progression and Graduation

- A. All degree requirements must be completed within seven years.
- B. Students must satisfactorily complete a thesis or research project.
- C. Students must satisfactorily complete a comprehensive assessment.
- D. Students are encouraged to apply for graduation two semesters before the anticipated date of graduation. Note: A copy of the official program of study must accompany the candidate's application.

Program of Study

			Credit Hours
Required Courses			21
PUBH	6541	Biostatistics	
SMED	6005	Research Methods in Sports Medicine	
SMED	6060	Exercise Physiology	
SMED	6400	Fundamentals of Biomechanics and Human Movement	
SMED	7070	Theory and Method of Strength & Conditioning	
SMED	7994	Thesis/Professional Project in Sports Medicine I	
SMED	7995	Thesis/Professional Project in Sports Medicine II	
Human Movement Science Emphasis			9
SMED	6080	Performance Evaluation and Exercise Testing	
SMED	7060	Advanced Exercise Physiology	
SMED	7450	Neuromechanical Aspects of Human Movement	
Electives			6
Students can choose two of the following courses as an elective:			
SMED	5065G	Movement/Posture Assmnt & Exer	
SMED	5555G	Phys Actvty Disease Prev/Treat	
SMED	5600G	Healthy Wght Mgmt & Body Comp	
SMED	5940G	Internship Strength & Conditio	
SMED	7050	Drug & Ergogenic Aids/Spts Med	
SMED	7080	Applied Sport Science	
SMED	7085	Tactical Strength and Conditioning	
SMED	7225	Internship in Sports Medicine	
SMED	7505	Organizational Leadership in Sports Medicine	
SMED	7515	Cardiopulmonary Pathophysiology, Exercise and Rehabilitation	
SMED	7520	Psychosocial Issues in Sports Medicine	
SMED	7700	Self-Directed Student Research in Sports Medicine	
Total Credit Hours			36

Accelerated Bachelors to Masters (MSSM-ABM)

The MSSM-ABM is designed to allow currently enrolled Georgia Southern University students to enter the MSSM degree program after completing 90 credit hours. Students may be accepted into the MSSM-ABM program if all of the following criteria are met:

- Student must have earned a minimum 90 credit hours and have completed an application for admission to the MSSM-ABM program.
- Student must have completed all Core courses at Georgia Southern University with no failures or repeats. A grade lower than a "C" in Areas A, D, or F is considered a failure.
- Student must be a declared major in the Bachelor of Health Science degree program, enrolled in the Human Performance/Fitness Management track.
- Student must have a minimum GPA of 3.3.
- Student must not have earned any grade lower than a "B" in any major course (excluding Area F).
- Student must have scored at least 290 or higher on GRE.

Any 3 of the following courses (9 hours) can be taken by MSSM-ABM students to apply towards the MSSM

	Credit Hours
SMED 5015G Assess/Eval Injury & Illness I	
SMED 5065G Movement/Posture Assmnt & Exer	
SMED 5090G Nutritional Issues/Sprts Med	
SMED 5555G Phys Actvty Disease Prev/Treat	
SMED 5600G Healthy Wght Mgmt & Body Comp	
SMED 6080 Performance Evaluation and Exercise Testing	
Total Credit Hours	9

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Sports Medicine M.S.S.M. (Concentration in Strength Conditioning)

Degree Requirements: 36 Credit Hours

Policies, Requirements and Standards

The Master of Science in Sports Medicine (MSSM) degree at Georgia Southern University prepares leaders for the general field of sports medicine with advanced education in either Strength & Conditioning or Advanced Athletic Training.

The MSSM provides an interdisciplinary scientific background in sport and physical activity with a significant emphasis on work-related concepts and experiences. The educational experiences are designed utilizing evidence-

based research to develop leaders in the scientific and clinical aspects of Sports Medicine.

Criminal Background Checks

Clinical agencies utilized by the Department of Health Sciences and Kinesiology and the Sports Medicine program may require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities. Students who do not pass the criminal background check and/or drug test may be unable to attend clinical courses and therefore may be unable to complete their Program of Study. Any fees or costs associated with background checks and/or drug testing is the responsibility of the student.

Admissions Standards

For consideration of admission to the MSSM program, the applicant must have completed an application for admission to the College of Graduate Studies at Georgia Southern University, submitted official copies of all academic transcripts related to undergraduate and graduate coursework at the time of program application, submitted official GRE scores, and prepared a formal Statement of Graduate Education Goals. Courses in statistics, research methods, anatomy and physiology are recommended. The applicant must also have:

1. Completed requirements for a baccalaureate degree from a regionally-accredited institution;
2. A minimum 2.80 cumulative undergraduate GPA;
3. GRE: No less than 146 Verbal AND 141 Quantitative. See note under Admissions Examinations on page 9 about using revised GRE scores after August 1, 2011.

Note: In lieu of the above requirements, an earned doctorate or masters from a regionally-accredited institution may qualify the student for regular admission.

Standards of Progression and Graduation

- A. All degree requirements must be completed within seven years.
- B. Students must satisfactorily complete a thesis or research project.
- C. Students must satisfactorily complete a comprehensive assessment.
- D. Students are encouraged to apply for graduation two semesters before the anticipated date of graduation. Note: A copy of the official program of study must accompany the candidate's application.

Program of Study

	Credit Hours
Required Courses	21
GEPH 6000 Biostatistics	
SMED 6005 Research Methods in Sports Medicine	
SMED 6060 Exercise Physiology	
SMED 6400 Fundamentals of Biomechanics and Human Movement	
SMED 7070 Theory and Method of Strength & Conditioning	
SMED 7994 Thesis/Professional Project in Sports Medicine I	
SMED 7995 Thesis/Professional Project in Sports Medicine II	
Strength and Conditioning Concentration	9
SMED 5015G Assess/Eval Injury & Illness I	

SMED 6090	Sport and Exercise Nutrition
SMED 7075	Program Design and Advanced Training Techniques

Electives **6**

Students can choose two of the following courses as an elective:

SMED 5065G	Movement/Posture Assmnt & Exer
SMED 5555G	Phys Actvty Disease Prev/Treat
SMED 5600G	Healthy Wght Mgmt & Body Comp
SMED 5940G	Internship Strength & Conditio
SMED 7050	Drug & Ergogenic Aids/Spts Med
SMED 7080	Applied Sport Science
SMED 7085	Tactical Strength and Conditioning
SMED 7225	Internship in Sports Medicine
SMED 7505	Organizational Leadership in Sports Medicine
SMED 7515	Cardiopulmonary Pathophysiology, Exercise and Rehabilitation
SMED 7520	Psychosocial Issues in Sports Medicine
SMED 7700	Self-Directed Student Research in Sports Medicine

Total Credit Hours 36

Accelerated Bachelors to Masters (MSSM-ABM)

The MSSM-ABM is designed to allow currently enrolled Georgia Southern University students to enter the MSSM degree program after completing 90 credit hours. Students may be accepted into the MSSM-ABM program if all of the following criteria are met:

- Student must have earned a minimum 90 credit hours and have completed an application for admission to the MSSM-ABM program.
- Student must have completed all Core courses at Georgia Southern University with no failures or repeats. A grade lower than a "C" in Areas A, D, or F is considered a failure.
- Student must be a declared major in the Bachelor of Health Science degree program, enrolled in the Human Performance/Fitness Management track.
- Student must have a minimum GPA of 3.3.
- Student must not have earned any grade lower than a "B" in any major course (excluding Area F).
- Student must have scored at least 290 or higher on GRE.

Any 3 of the following courses (9 hours) can be taken by MSSM-ABM students to apply towards the MSSM

	Credit Hours
SMED 5015G Assess/Eval Injury & Illness I	
SMED 5065G Movement/Posture Assmnt & Exer	
SMED 5090G Nutritional Issues/Sprts Med	
SMED 5555G Phys Actvty Disease Prev/Treat	
SMED 5600G Healthy Wght Mgmt & Body Comp	
SMED 6080 Performance Evaluation and Exercise Testing	
SMED 6400 Fundamentals of Biomechanics and Human Movement	

Total Credit Hours 9

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information

regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Strength and Conditioning Graduate Certificate

Certificate Requirements: 12 Credit Hours

Admission Standards

For admission to the Strength and Conditioning certificate program, the applicant must:

- A. Have completed requirements for a baccalaureate degree from a regionally-accredited institution;
- B. A minimum 2.5 cumulative undergraduate GPA; AND
- C. Be admitted to Graduate Studies.

Standards of Progression and Graduation

- A. Each student will file a program of study with College of Graduate Studies after a review with his/her advisor.
- B. A minimum overall grade point average of B or better must be earned for the certificate to be awarded on the graduate level.
- C. Each student will successfully complete a comprehensive assessment administered during the student's last semester of completion.

Program of Study

	Credit Hours
SMED 5090G Nutritional Issues/Sprts Med	
SMED 6030 Evidence-Based Research in Strength & Conditioning	
SMED 6060 Exercise Physiology	
SMED 7070 Theory and Method of Strength & Conditioning	

Total Credit Hours 12

Post-Certification Admission to MSSM

Students who successfully complete the Program of Study for the graduate certificate in strength and conditioning may be considered for admission into the MSSM program. Students who wish to be considered for admission into the MSSM program upon successful completion of the graduate strength and conditioning certificate must formally apply to the MSSM Program and meet all MSSM admission requirements.

Only 6 credit hours earned during completion of the strength and conditioning certificate may be applied to completion of the MSSM.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.

Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Rehabilitation Sciences

Welcome to the Department of Rehabilitation Sciences located on Georgia Southern University Armstrong Campus in Savannah.

The department offers undergraduate and accredited graduate programs in rehabilitation sciences and communication sciences and a doctoral degree in physical therapy.

Our facilities include the RiteCare Center for Communication Disorders, located in the Armstrong Center on the Armstrong Campus, and the 3200-square-foot, state-of-the-art Biodynamics and Human Performance Center operated in collaboration with the Department of Health Sciences and Kinesiology. The Biodynamics and Human Performance Center comprises three specialized laboratories: the Biomechanics Laboratory, the Muscle Performance Laboratory and the Exercise Physiology Laboratory. Other facilities include an anatomy lab, a pulmonary function lab and a clinical athletic training facility. We have also recently acquired an Anatomage Medical Table, a state-of-the-art anatomy visualization system.

Contact

Dr. Walter Jenkins, Department Head
Georgia Southern University Armstrong Campus in Savannah
Department #4902
11935 Abercorn Street
Savannah, GA 31419
chp.georgiasouthern.edu/rehabilitation/ (<http://chp.georgiasouthern.edu/rehabilitation/>)

Communication Sciences and Disorders

Armstrong Campus
Phone: (912) 344-2969
Fax: (912) 344-3439

Rehabilitation Sciences and Physical Therapy

Armstrong Campus
Phone: (912) 344-2580
Fax: (912) 344-3439

RiteCare Center

Georgia Southern University Armstrong Campus
RiteCare Center Department #4903
13040 Abercorn Street, Suite 25
Savannah, GA 31419
Phone: (912) 344-2735 or (912) 344-2969

Programs

Master's

- Communication Sciences and Disorders M.S. (p. 182)

Doctoral

- Physical Therapy D.P.T. (p. 185)

Communication Sciences and Disorders M.S.

Degree Requirements: 57 Credit Hours

Policies Requirements and Standards

Consistent with the mission of the university and the goals of the Waters College of Health Professions, the Communication Sciences and Disorders Program incorporates a teaching-centered, student-focused philosophy that promotes collaboration and evidence based education in a context that acknowledges cultural and linguistic diversity.

The Master of Science Program in Communication Sciences and Disorders is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA).

Address: Accreditation Unit, American Speech-Language-Hearing Association, 2200 Research Blvd, #310, Rockville, MD 20850; telephone, 301-296-5700, accreditation@asha.org.

Second year graduate students entering advanced practicum experiences will differentiate etiologies and analyze characteristics of various communication and swallowing disorders across the lifespan when evaluating clinical case studies according to accreditation standards.

Second year graduate students completing advanced practicum experiences will select and implement evaluation procedures, soundly interpret and convey evaluation results for the diagnosis of persons with communication and swallowing disorders across the lifespan during clinical practica according to accreditation standards.

Second year graduate students completing advanced practicum experiences will develop and implement intervention strategies for individuals with communication and swallowing disorders across the lifespan during clinical practica according to accreditation standards.

Criminal Background Checks

Clinical agencies utilized by the Program in Communication Sciences and Disorders as well as the campus-based university clinic require criminal background checks and/or drug testing prior to acceptance of the student into clinical facilities.

Admission Standards

1. Immunizations and physical exams as required of all Georgia Southern University students.
2. Applicants must complete the requirements for a baccalaureate degree in speech-language pathology from a regionally accredited institution or complete the requirements for a baccalaureate degree in a field other than communication sciences and disorders plus appropriate prerequisite coursework in the field of speech-language pathology/communication sciences and disorders in order to apply.
3. A cumulative grade point average of at least 3.0.
4. Admission requires a score of no less than 145 on the Verbal Reasoning section (or the equivalent score of 380) and 141 on the Quantitative Reasoning section (or the equivalent score of 430) of the Graduate Record Exam (GRE). Scores must be achieved within 5 years of the application due date. Retired GRE scores may only be submitted if taken in the last 5 years of the application due date. Otherwise, the new GRE scores must be submitted.

- For students whose second language is English, a score of 550 paper-based score or 100 computer-based score or better on the Test of

English as a Foreign Language (TOEFL) or a score of 6.5 or better on the International English Language Testing System (IELTS) may be substituted for the verbal GRE score.

5. Documentation of the following after admission and prior to enrollment:

1. Completion of 25 clinical observation hours as mandated by the American Speech-Language-Hearing Association
2. Proof of professional liability insurance
3. Proof of health insurance
4. Clear background check and negative drug screen
5. First aid/CPR certification by the American Red Cross or the American Heart Association
6. negative TB PPD skin test within thirty (30) days of enrollment
7. Flu shot
8. Final transcript(s) documenting all required coursework and conferral of baccalaureate degree

6. The following documents are required for admission to the Master of Science program in communication sciences and disorders and should be submitted via the Communication Sciences and Disorders Centralized Application System (CSDCAS).

1. Official college transcripts **requested using the CSDCAS transcript request form.**
2. Official GRE scores (**Within 5 years of the application due date**).
 1. **Students are encouraged to send GRE scores to CSDCAS after they have created a CSDCAS application account. Students should also use the program CSDCAS Code 7712.**
3. Three (3) Completed **CSDCAS** Reference Forms
 1. At least **two** of the three forms should be completed by **professors** with knowledge of the applicant's academic performance and professionalism. Professors in communication sciences and disorders are preferred.
 2. No more than **one** of the three forms should be completed by a professional reference such as an employer
4. Personal Statement submitted via CSDCAS (**Vital information from resume's should be included in the Letter of Intent; however, resumes should not be submitted**)
5. **Essential Skills Statement:** The Essential Skills document includes essential functions you will be expected to perform during your educational program as a student and professional career. Persons interested in applying for admission to the Communication Sciences and Disorders program should review this document in its entirety (cover sheet, Appendix A, and Appendix B) to develop a better understanding of the cognitive skills, physical abilities, and behavioral characteristics necessary to successfully complete the program and work as a speech-language pathologist. **A cover sheet with acknowledgment, signature, and date MUST be obtained and submitted as part of the admissions packet via CSDCAS.**
6. **Video Recording:** In lieu of onsite interviews, the CSDS program requires all applicants to submit a video recording as part of the admissions process. Information regarding requirements for the video can be found in the Questions section of CSDCAS.

7. **Additional Requirements:** The graduate program in Communication Sciences and Disorders is accredited by the Council of Academic Accreditation (CAA). Pre-requisite courses that provide a foundational understanding of speech, language, hearing, and swallowing, as well as (basic) courses in natural sciences, physical sciences, social sciences, and math must be completed to meet accreditation and certification standards. **We require all courses be completed or in process of completion when applying to the program.** These include:

1. Biological Science (Science of living things-Biology, Human Anatomy, etc)
2. Physics or Chemistry
3. Social Science (Psychology, Sociology, Anthropology.etc)
4. Statistics

8. Meeting the minimum criteria for application for graduate school does not guarantee admission to the Communication Sciences and Disorders program. It should be noted that the pool of applicants for the Communication Sciences and Disorders program includes many highly qualified applicants, and the number of available positions is limited. Therefore, admission to the Communication Sciences and Disorders program is highly competitive.

Admission Process

1. The graduate admissions process for the masters of science degree in Communication Sciences and Disorders is managed by the Communication Sciences and Disorders Centralized Application System (CSDCAS). Applications may be obtained and submitted via CSDCAS.
2. The Georgia Southern graduate school application will NOT be accepted. **Only materials submitted via CSDCAS will be reviewed.**
3. Deadline: the CSDCAS application and all supporting materials should be submitted by January 15th of each year via CSDCAS.
4. Applications and support materials are reviewed, and a limited number of applicants are accepted into the program.
5. Students selected for admission must formally accept the position and submit a non-refundable deposit. Students who matriculate in the CSD Program at Georgia Southern will have their deposits refunded.

Standards of Progression and Graduation Program Progression Requirements

1. Students must maintain a B average or better on all coursework taken as a graduate student. If the student's average falls below 3.0, the student will have one probationary semester to earn the required B average or better. The student must be registered for all of the required courses in the program of study during the probationary semester. If the average is not raised to a B or better in that term, or the student earns a C or below on more than 3 hours, the student will be dismissed from the program. Students who are dismissed due to unsatisfactory performance cannot reapply to the program.

- The probationary semester must be the semester immediately following the semester the student was placed on probation. Students who do not enroll for the probationary semester will be dismissed from the program and are not eligible to reapply unless non-enrollment is due to a university approved withdrawal relative to a medical condition or hardship.

- In the case of a university approved withdrawal the student must enroll within two semesters or by the next semester when the required courses are offered.

A student, who earns a D, F or WF in an academic course or a grade of C, D, F or WF in clinical practicum but has not met the criteria for dismissal, must demonstrate mastery of the failed content before the program is completed and the degree is granted. The student may be required to retake the failed course or retake specific course content via independent study or special topics classes.

2. Students must adhere to the American Speech-Language and Hearing Association Code of Ethics and guide for professional practices and the state of Georgia's rules and regulations governing the practice of speech-language pathology. The program provides copies of, and instruction in, all of these policies. Students who violate these rules and regulations will be dismissed from the program and are ineligible for readmission.

3. Graduate coursework and clinical practicum are completed simultaneously over five consecutive semesters, which includes summer. Students are admitted as full-time. If the student is not enrolled for two consecutive semesters, that student must reapply for admission.

4. Students must complete the program within five years.

5. Students who do not complete the program in five years must reapply for admission. Those students must begin to meet the program requirements in effect at the time of readmission. For clarification, refer to Readmission Procedures.

6. Students must annually present evidence of professional liability insurance, health/medical insurance, Negative TB PPD skin test, and first aid/CPR certification. In addition, students may need to provide evidence of preventative inoculations depending on external placements.

Graduation Requirements

1. Students are encouraged to apply for graduation two semesters before the anticipated date of graduation. Note: A copy of the official program of study must accompany the candidate's application. Students must take the Praxis II examination in speech-language pathology and present a passing score of 162 or higher to the program by February 15th if graduating in May, June 15th if graduating in August or October 15 th if graduating in December. The program will accept scores for the Praxis only on examinations taken AFTER October 31st of the student's SECOND year of graduate study.

2. Students who do not earn a Praxis score of 162 must take a comprehensive assessment developed by the program and earn a score of eighty percent or higher.

3. Students must maintain a B average or better in the program.

4. Students must accumulate a minimum of 400 client contact hours as described by the department and set forth by the American Speech-Language and Hearing Association.

5. Students must demonstrate acquisition of knowledge and skills needed for a clinical fellowship-ready speech-language pathologist.

Readmission Procedures

1. The student must complete the readmission application and go through the readmission process by submitting the current graduate application for Georgia Southern University and the Communication Sciences and Disorders major.

2. The student will be required to meet admission requirements in effect at the time of application for readmission to the program.

3. The student's readmission will be based upon space available in the class into which the former student is seeking admission and recommendation of the department faculty.

4. The student may be required to retake all or some coursework previously completed if readmitted to meet the current accreditation standards and to obtain professional certification.

5. The student who has been dismissed for inability to meet minimum grade requirements or ethics violations is NOT eligible for readmission.

Program of Study

Required Courses		Credit Hours	
CSDS	7136	Introduction to Clinical Practicum in Communication Disorders	57
CSDS	7136L	Introduction to Clinical Practicum in Communication Disorders	
CSDS	7137	Clinical Practicum in Communication Disorders	
CSDS	7137L	Clinical Practicum in Communication Disorders	
CSDS	7138	Clinical Practicum in Communication Disorders Intermediate	
CSDS	7138L	Clinical Practicum in Communication Disorders-Intermediate	
CSDS	7141	Cognitive and Linguistic Foundations of Language	
CSDS	7142	Professional and Ethical Issues in Communication Sciences and Disorders	
CSDS	7143	Language and Literacy Disorders in School-Age Children	
CSDS	7144	Neuroanatomy and Physiology	
CSDS	7145	Language Disorders Early Child	
CSDS	7148	Oral & Motor Speech Disorders	
CSDS	7149	Aural Rehabilitation	
CSDS	7150	Swallowing Disorders	
CSDS	7151	Aphasia & Rel Neur Disorders	
CSDS	7154	Advanced Practicum in Communication Disorders I	
CSDS	7155	Advanced Practicum in Communication Disorders II	
CSDS	7156	Voice and Velopharyngeal Disorders	
CSDS	7157	Speech Sound Disorders	
CSDS	7158	Acquired Cog. Comm Disorders	
CSDS	7163	Research Methodology	
CSDS	7164	Comprehensive Synthesis and Analysis in CSD	
CSDS	7166	Fluency and Fluency Disorders	
Total Credit Hours		57	

- A total 57 semester hours of coursework and an accumulation of a minimum of 400 client contact hours as described by the Communication Sciences and Disorders program and set forth by the American Speech-Language and Hearing Association are required for program completion.
- A maximum of 6 graduate credit hours of coursework may be evaluated as transfer credits from another institution at the discretion of communication sciences and disorders program faculty.

- Courses previously taken by readmitted students will be included in the new program of study based on the discretion of the program. Some or all new coursework may be required to meet the current accreditation standards.
- An individual student's plan of study may reflect additional courses mutually agreed upon by the student and academic advisor and approved by the Program Director, but may include no less than the 57 credits listed above.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Physical Therapy D.P.T.

Degree Requirements: 134 Credit Hours

Policies, Requirements and Standards

The Physical Therapy Program at Georgia Southern University offers the Doctor of Physical Therapy (DPT) degree.

The DPT Program includes nine semesters of academic course work with three full-time clinical affiliations (totaling at least thirty weeks of full-time clinical practice), and numerous additional clinical experiences. Upon completion of the program, students are awarded the Doctor of Physical Therapy (DPT) degree.

The bachelor's degree is required for admission to the physical therapy program. Contact the Department of Rehabilitation Sciences, Physical Therapy Program, for further information concerning eligibility.

Consistent with the mission of the University and the goals of the College of Health Professions, the mission of the Doctor of Physical Therapy program is to provide student-centered education that allows individuals to develop physical therapy skills and knowledge that addresses the challenges of the rapidly changing healthcare system and the expanding need for evidence-based physical therapy services. The program will work collaboratively with various stakeholders within and outside the physical therapy community to improve the quality of physical therapy care and enhance the scientific basis of professional practice.

The Georgia Southern University Doctor of Physical Therapy program strives to develop graduates who:

1. provide ethical and effective physical therapy examination, evaluation and intervention for persons of all ages.
2. use clinical reasoning, research and reflection to optimize practice.

As clinicians, our graduates will demonstrate:

1. effective clinical documentation and communication with patients, families, and the health care team.
2. respect and empathy for all people.
3. motivation and skills for promoting health and wellness.
4. effective collaboration with healthcare team members to ensure effectiveness within the healthcare delivery system.

5. participation in professional/leadership activities within physical therapy.

Admission Standards

Prerequisite Courses

1. Applicants must complete the requirements for a baccalaureate degree and any additional prerequisite coursework from a regionally accredited institution. While any major field of study is acceptable, the degree and all prerequisite courses must be completed prior to matriculation.
2. Prospective students must have earned a grade of C or higher in all the prerequisite courses. In the event that courses are taken more than once, grades will be averaged (see below for more information about GPA calculations). Online classes are accepted for fulfillment of prerequisite courses, including lab science courses. AP courses are accepted for fulfillment of prerequisite courses, but they will not be included in GPA calculations.
3. Applicants must demonstrate an understanding of the social, biological and physical sciences and mathematics so that they can comprehend and integrate physiological, pharmacological, behavioral and biomechanical principles into physical therapy practice. Applicants must also demonstrate effective oral and written communication skills.
4. At least 5 of the 8 prerequisite science courses listed below must be completed at the time of application.
 - a. A one-year sequence of basic (general, inorganic) chemistry with laboratories that is designed for science or health professions majors;
 - b. A one-year sequence of general physics with laboratories (both calculus or non-calculus physics are acceptable) that is for science or health professions majors and which include mechanics, electricity, magnetism and light;
 - c. A one-year sequence of anatomy and physiology with laboratories (either as two combined anatomy and physiology courses or with one course in physiology and one course in anatomy) which may be lower division human anatomy and physiology courses for health professions majors or upper division vertebrate or human physiology and comparative or developmental anatomy. Applicants are also encouraged to take advanced human physiology and anatomy courses such as exercise physiology, neurophysiology, advanced human physiology, kinesiology and/or biomechanics;
 - d. One general biology course with laboratory (botany, ecology, and environmental science are not acceptable substitutes).
 - e. One course in statistics (at a minimum, covering measures of central tendency, probability distributions, and linear regression).
5. Two courses in the social sciences are also required. Abnormal psychology and human development are recommended to fulfill this requirement.
6. Applicants are also encouraged to take advanced human physiology and anatomy courses such as exercise physiology, neurophysiology, advanced human physiology, kinesiology and/or biomechanics.

GPA

1. GPA's are calculated by PTCAS during the application process. Applicants must meet the following GPA requirements in order for their application to be considered.
 - a. Minimum overall GPA of 3.0
 - b. Minimum physical science GPA of 3.0
2. Please refer to PTCAS for information about how GPA's are calculated and which courses are included in the Science GPA. Any coursework completed after an application is submitted will not be considered in the GPA calculations, since it will not be verified by PTCAS.

- No grade of D or F will be acceptable for satisfaction of the prerequisite courses. If an applicant earns a grade of D or F in a prerequisite course, that applicant may retake that course only one time. No more than two prerequisite courses may be repeated with the goal of earning a passing grade. Applicants may repeat courses with grades of C or higher to improve their prerequisite course GPA, but repeated courses will be averaged in the calculation of the applicable GPA.

Graduate Record Exam (GRE)

- When requesting to have GRE scores sent to Georgia Southern University **Doctor of Physical Therapy (DPT) Program**, the appropriate codes to be used are:
 - school code 7813**
 - department code 0619.**
 - If you use any other school code, including 5253 (the general Georgia Southern University code), your GRE score will not be added to your PTCAS application.
- Applicants must meet the following GRE requirements in order for their application to be considered:
 - Minimum score of 146 on the verbal reasoning section
 - Minimum score of 144 on the quantitative reasoning section
 - For students whose second language is English, a TOEFL score of at least 600 paper-based, 250 computer-based or 80 internet-web-based may be substituted for the minimal verbal GRE score. The TOEFL score is not used in calculating a final application score during review of the applications, as there is no mechanism for converting a TOEFL score into a GRE score. As a result, the applicant's application score may be lower than those of applicants who took the entire GRE.

The CASPer Test

- All applicants to the DPT Program at Georgia Southern University are required to take an online assessment (CASPer).** Casper is an online test that assesses for non-cognitive skills and interpersonal characteristics that we believe are important for successful students and graduates of our program, and will complement the other tools that we use for applicant screening.
- Please go to [www.takecasper.com](https://takecasper.com/) (<https://takecasper.com/>) to sign up for the **American Professional Health Sciences test (CSP10101) and reserve a test using your PTCAS ID and a piece of government-issued photo ID. You will be provided with a limited number of testing dates and times. Please note that these are the only testing dates available for your CASPer test. There will be no additional tests scheduled. Please use an email address you check regularly; there may be updates to the test schedule.**
- The CASPer test is comprised of 12 sections of video and written scenarios. Following each scenario, you will be required to answer a set of probing questions under a time contract. The test typically takes between 75-90 minutes to complete. Each response is graded by a different rater, giving a very robust and reliable view of personal and professional characteristics important to our program. No studying is required for CASPer, although you may want to familiarize yourself with the test structure at [takeCASPer.com](http://www.takecasper.com) (<http://www.takecasper.com/>), and ensure you have a quiet environment to take the test. Applicants should have an understanding of the scope of physical therapy practice. This understanding is best developed through observation of physical therapists in multiple types of clinical practice.

Physical Therapy Observation Hours

- Applicants should have an understanding of the scope of physical therapy practice. This understanding is best developed through observation of physical therapists in multiple types of clinical practice.
- Applicants are required to demonstrate a total of 75 hours of observation under a licensed physical therapist. Observation hours must be verified in PTCAS by a physical therapist. It is strongly recommended that these hours of observation be completed in more than one setting, with at least 10 hours in each setting. It is also recommended that applicants demonstrate additional hours beyond the required 75.** Setting types include but are not limited to: acute care, fitness/wellness, general adult outpatient, inpatient rehabilitation, outpatient adult orthopedics/sports, pediatric inpatient, pediatric outpatient, school systems, skilled nursing facilities, and wound care. Receiving physical therapy treatment or being a caregiver for someone with a physical disability can count toward one setting for purposes of this requirement.
- PT observation hours that have been completed or are planned should be included in the PTCAS application but do not need to be verified by a physical therapist in order to be submitted.

Reference Forms

- Applicants are required to submit three references. One of the references must be written by a physical therapist who has observed and supervised the applicant in a clinical setting. All of the references must be included in the PTCAS application.

Supplemental Material

- All potential and enrolled students in the DPT Program must meet intellectual, physical, and social competencies in order to provide safe patient care and successfully complete the program. Applicants must review the Core Performance Standards posted on the DPT Program website (<https://chp.georgiasouthern.edu/rehabilitation/graduate-programs/doctor-of-physical-therapy/core-performance-standards/>). Applicants are required to review the Core Performance Standards and answer a question about this in the Supplemental Questions section of the PTCAS application.
- The following documents are required **to apply** for admission to the Doctor of Physical Therapy (DPT) program: Physical Therapist Centralized Application Service (PTCAS) application (www.ptcas.org), **official transcripts from every college and university attended, official GRE score reports, three completed references, 75 verified observation hours, and CASPer Test results.** ALL application documents, **with the exception of CASPer Test results,** will be collected by PTCAS.
- Meeting the minimum criteria for application does not guarantee admission to the **Doctor of Physical Therapy** program. It should be noted that the pool of applicants for the program includes many highly qualified persons, and the number of available positions is limited.
- All accepted students are required to submit evidence of current health insurance, CPR certification, immunizations, TB test, health appraisal, and GSU liability insurance upon matriculation and prior to participation in clinical experiences. Students are also required to complete a background check and drug screening process upon matriculation and as required by clinical sites. Official final transcripts must be submitted upon matriculation.**

Admission Process

- All applicants must also refer to the Program website information** (<https://chp.georgiasouthern.edu/rehabilitation/graduate-programs/doctor-of-physical-therapy/>) **for possible annual-cycle-specific modifications to requirements and processes.**
- Program applications are available through the Physical Therapist Centralized Application Service website (www.ptcas.org). The

Georgia Southern University Graduate Studies application is not used.

- Specific application deadlines are set annually and are posted at the PTCAS (www.ptcas.org) and program (<https://chp.georgiasouthern.edu/rehabilitation/graduate-programs/doctor-of-physical-therapy/>) websites. More information about the admissions timeline is also available at the program website.
- A half-day, in-person interview is required for admission. Interviews are scheduled by invitation only.
- Students selected for admission must formally accept the position and submit a non-refundable deposit. Students who matriculate in the DPT Program at **Georgia Southern University** will have their deposits refunded during the first week of classes.

Accreditation Status and Degrees Offered

- The Doctor of Physical Therapy Program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: accreditation@apta.org; website: www.capteonline.org. The program received initial accreditation in May 1997. Present accreditation continues through December 31, 2022.

The Georgia Board of Physical Therapy Legal Requirements

- Graduation from an accredited professional physical therapy education program allows students to take the National Physical Therapy Examination (NPTE). Passing this exam is required for licensure in any jurisdiction within the United States and its territories. In addition, the graduate must pass the Georgia state Jurisprudence exam to obtain licensure in Georgia.
- The Georgia Board of Physical Therapy has the authority to refuse or revoke licensure to an applicant upon a finding by the board that the applicant has been convicted of any felony, crime involving moral turpitude, or crime violating any federal or state law relating to controlled substances or dangerous drugs in the courts of this state, any other state, territory, or country or in the federal courts of the United States including but not limited to a plea of nolo contendere entered to the charge.

Standards of Progression and Graduation Program Progression Requirements

- Students must be continuously enrolled in the program through the entire nine-semester sequence of courses. Medical or personal leave may be granted but will also require the student to "drop back" to the next graduating class.
- Students must obtain faculty permission to "drop back" for academic, medical, or personal reasons. A student may re-enroll in PT courses only if the faculty has determined that space is available for that student.
- Students must complete all courses in the physical therapy curriculum within five consecutive years from the date of their initial admission to the physical therapy major. Students who do not complete the program in the required period of time may apply for readmission.
- Students must maintain malpractice/liability and health/medical insurance; up-to-date immunizations; medical tests and physical exams required by the program; and CPR/first aid certification.
- ALL students must meet the following requirements in order to progress in the curriculum:
 - Complete each course with an overall average greater than or equal to 80% and complete each assignment and examination designated by the course faculty as critical with a minimum score

of 80%. If one of these critical activities is not passed with a score greater than or equal to 80%, the student must successfully complete a remedial activity.

- Demonstrate clinical safety and reasoning skills deemed adequate for entering into supervised clinical practice. Readiness is primarily but not solely assessed through observation of multiple aspects of individual student performance during previous coursework, including Physical Therapy Case Management.

- Demonstrate at least a satisfactory level of overall professional behavior. When deficiencies have been observed, the student will be notified and given time to correct these professional behavior deficits. However, repeated failure to correct deficiencies in professional behavior will result in an evaluation of the student's overall professional behavior by the Physical Therapy faculty as a whole, which if deemed unsatisfactory, could result in dismissal from the Program.

6. Remediations

- Only one remedial activity will be allowed per critical activity, and the maximum available grade will be 80%. So, for example, if a student scores 90% on a remediation exam, that item will be entered into the grade book as 80%, because that is the maximum available.

- Each must occur within ten academic class days of the original date or due date of the critical activity. Scheduling will be negotiated between the student and faculty and will be determined based on likely student readiness for the remediation but must be completed before semester grades are due.

- Students are only allowed to remediate up to a total of 20% of the total number of critical activities for all courses combined for each cohort in a given semester. The maximum number may fluctuate from semester to semester as numbers of exams and assignments change and this maximum limit will be calculated and posted to this document at the beginning of each semester: Maximum Remediations Allowed. A student that fails more than the allowed number of examinations in one semester will not progress through the curriculum.

- If the grade on any remedial activity is not greater than or equal to 80%, the maximum available grade for that course will be C. This puts the student on Academic Probation which has specific procedural requirements.

Graduation Requirements

- Students must successfully complete all courses in the curriculum (earning a B or better in all courses; Clinical Practicum 2 and 3 and Supervised Clinical Education 1, 2, and 3 must be passed with a satisfactory grade).
- Students must follow graduation procedures for Georgia Southern University.
- The Doctor of Physical Therapy program of study requires a total of 134 semester hours.

Readmission Procedures

- The student must complete the readmission application for the physical therapy major.
- The student will be required to meet admission and curriculum requirements in effect at the time of application for readmission.
- The student's admission will be based upon space available in the class into which the former student is seeking admission and recommendation of the department faculty.
- The former student, who has failed out of the program because of an inability to meet the grade requirements or has been dismissed from

the physical therapy program for any reason, is not eligible to apply for readmission.

Program of Study

Core Requirements			Credit Hours
PHTH 7101	Functional Anatomy of the Cardiopulmonary System		
PHTH 7111	Intro to Pathophysiology 1		
PHTH 7131	Basic Cardiopulmonary Patient Care		
PHTH 7161	Phys Therapy Practice Issues 1		
PHTH 7181	Clinical Practicum 1		
PHTH 7202	Functional Anatomy of Axial and Appendicular Regions		
PHTH 7212	Intro Pathophysiology 2		
PHTH 7232	Basic Orthopedic Patient Care		
PHTH 7232L	Basic Orthopedic Patient Care Lab		
PHTH 7262	Evidence-based Practice 1		
PHTH 7282	Clinical Practicum 2		
PHTH 7303	Functional Anatomy of the Nervous System		
PHTH 7313	Intro Pathophysiology 3		
PHTH 7333	Basic Neurologic and Integumentary Patient Care		
PHTH 7363	Evidence-based Practice 2		
PHTH 7383	Clinical Practicum 3		
PHTH 7390	Phys Ther Case Management		
PHTH 8400	Evidence-based Practice 3		
PHTH 8481	Supervised Clinical Educ 1		
PHTH 8491	Patient Care Synthesis 1		
PHTH 8501	Clinical Medicine 1		
PHTH 8531	Advanced Patient Care 1: Geriatrics		
PHTH 8561	Implmt Life Concepts Phy Ther 1		
PHTH 8602	Clinical Medicine 2		
PHTH 8632	Advanced Patient Care 2: Adults		
PHTH 8662	Implemt of Lifespan Concepts 2		
PHTH 9001	Special Topics in Physical Therapy ¹		
PHTH 9500	Leadership & Management in Physical Therapy 1		
PHTH 9501	Leadership and Management in Physical Therapy 2		
PHTH 9551	Therapeutic Exercise 1		
PHTH 9562	Therapeutic Exercise 2		
PHTH 9703	Clinical Medicine 3		
PHTH 9733	Advanced Patient Care 3: Pediatrics		
PHTH 9763	Implemt of Lifespan Concepts 3		
PHTH 9804	Clinical Medicine 4		
PHTH 9834	Advanced Patient Care 4: Complex Patients		
PHTH 9882	Supervised Clinical Educ 2		
PHTH 9983	Supervised Clinical Educ 3		
PHTH 9992	Patient Care Synthesis 2		
Total Credit Hours			134

¹ Special Topics in Physical Therapy (PHTH 9001) will be taken two times at one credit hour each for a total of two credit hours.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

School of Nursing

Nationally recognized as a **top 100** nursing program¹, The School of Nursing offers the following baccalaureate, master's and doctoral programs and degrees:

- Bachelor of Science in Nursing
- Accelerated Bachelor of Science in Nursing (ABS/N)
- LPN/LVN-BSN Advanced Placement Track
- Registered Nurse to BSN
- Post-BSN-DNP with MSN opt out
- Post-MSN Certificate
- MSN
- Doctor of Nursing Practice (DNP)

The School of Nursing represents a strong and extraordinary community of excellent students, well-prepared faculty, dedicated staff, and supportive alumni and friends who promote and advance the quality, accessibility, and availability of nursing care for the people of southeast Georgia and beyond. The (baccalaureate degree in nursing/master's degree in nursing/Doctor of Nursing Practice and/or post-graduate APRN certificate) at Georgia Southern University is accredited by the Commission on Collegiate Nursing Education (<http://www.aacn.nche.edu/ccne-accreditation> (<http://www.aacn.nche.edu/ccne-accreditation/>)). All prelicensure programs are fully approved by the Georgia Board of Nursing. Georgia Southern University is accredited with the Southern Association of Colleges and Schools.

Mission & Vision

School of Nursing Mission Statement

The Mission of the Georgia Southern School of Nursing is to prepare a diverse student population to become professional nurses through academic excellence to promote health and enhance the quality of life for citizens in the rural and urban communities they serve.

School of Nursing Vision Statement

The School of Nursing aspires to be the premier center for academic excellence in professional nursing education for the Southeastern United States through transformative learning opportunities that promote a culture of caring and a legacy of lifelong scholarship, leadership and responsible community service and stewardship.

Accreditation

The Georgia Southern University School of Nursing is fully accredited by all appropriate national, state, and specialized/professional nursing accrediting agencies. Accrediting agencies assure that programs in nursing education engage in effective educational practices in the preparation of nurses. A determination of accreditation by an accrediting agency is an indication of confidence in the educational institution to offer a program of quality, deserving of public approbation. (NOTE:

Universities and colleges in the United States must hold appropriate regional accreditation in order to be recognized to award higher education degrees. All nursing programs must hold approval from their State Board of Nursing. The Georgia Southern University holds the following accreditation and approvals:

1. Commission on Colleges of the Southern Association of Colleges and Schools (SACSCOC). This regional accreditation grants Georgia Southern University the right to award Associate, Bachelor, Master, Specialist, and Doctorate degrees. Current Accreditation Period: 2020 for BSN, RN-BSN, and MSN; Renewal for Post-Master's DNP and Post-MSN certificate: Fall 2025. The Georgia Southern University holds the following state and specialized/professional nursing accreditations:
2. Georgia Board of Nursing. (Required Approval). The Georgia Board of Nursing grants Full Approval to nursing programs who maintain compliance with the Georgia Board of Nursing Rules and Regulations as evidenced by: annual reports submitted by the program, site visit reports, and appropriate passing percentages of first-time writers on the NCLEX-RN examination. Inquiries regarding the accreditation status of the program can be directed to: Georgia Board of Nursing, 237 Coliseum Drive, Macon, GA 31217-3858. Phone: 912-207-1640. Active Current Approval Period.
3. Commission on Collegiate Nursing Education (CCNE). (Voluntary Specialized/ Professional Accreditation). Formed in 1998, the Commission on Collegiate Nursing Education is the premier accrediting agency recognizing professional baccalaureate and graduate programs in nursing in the United States. Georgia Southern University School of Nursing is approved for its baccalaureate and graduate programs by the Commission on Collegiate Nursing Education. To be accredited, the following are required:
 - a. *The nursing program is viable and appears, based upon the review of submitted materials, to be conducted in a manner that will enable compliance with CCNE accreditation standards.*
 - b. *The institution has a history of seeking and ensuring continuing accreditation and program recognition by appropriate accrediting and regulatory agencies.*
 - c. *The institution has ensured the continuing viability of the nursing education program by being responsive to the concerns of accrediting and regulatory agencies.*

For further information about the status of the program, please contact the Commission on Collegiate Nursing Education at the following address:
 Commission on Collegiate Nursing Education,
 One Dupont Circle, NW, Suite 530
 Washington, DC 20036-1120
 Phone: (202) 887-6791

Current Accreditation Period: 2020 for BSN, RN-BSN, and MSN; 2025 for the DNP and Post-MSN certificate.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

¹ 2016 ranking of graduate Nursing degrees by US News and World Report

Programs

Master's

- Nursing M.S.N. (Online) (p. 195)

Doctoral

- Doctor of Nursing Practice D.N.P. (Online) (p. 191)
- Nursing BSN to DNP (p. 193)

Certificates

- Adult/Gerontology Acute Care Nurse Practitioner Post-MSN Certificate (p. 189)
- Adult/Gerontology Primary Care Nurse Practitioner Post-MSN Certificate (p. 190)
- Family Nurse Practitioner Post-MSN Certificate (p. 192)
- Psychiatric Mental Health Nurse Practitioner Post-MSN Certificate (p. 196)

Adult/Gerontology Acute Care Nurse Practitioner Post-MSN Certificate

Certificate Requirements: 19 Credit Hours

Student Outcomes

Student outcomes are consistent with the BSN to DNP program outcomes.

Admission Cycle

The admission application materials for the College of Graduate Studies (COGS) for NP certificate programs must be received by March 1st for admission consideration into the fall semester cohort. Phone interviews with individuals under consideration may be conducted prior to admission.

Admission Criteria

1. 1Master's degree in Nursing (APRN Program which includes Clinical Nurse Specialist, CRNA, Nurse Midwife, Nurse Practitioner) from a college accredited by the appropriate accrediting association.
2. Minimum graduate GPA of 3.0 (on 4.0 scale)
3. Pharmacology Course cannot be older than 5 years.
4. Current unrestricted RN license in state of residence and eligibility for a Georgia RN license
5. Certification as a Clinical Nurse Specialist, CRNA, Nurse Midwife, Nurse Practitioner
6. Submission/completion of the College of Graduate Studies application (on-line)
7. Three professional letters of recommendation.
8. Proof of current malpractice liability insurance as a RN and NP student
9. Must have the capability to fully utilize and interact within the on-line course delivery format of the institution.

Specific Admission Policy

The Nurse Practitioner certificate student will be admitted in Non-degree status and ineligible to enroll in other graduate courses unless admitted to that program. Only grades of "B" or better earned in the certificate are

eligible for application to the nursing doctorate if the individual is later admitted to the Post MSN DNP degree program.

Progression Policy

A student admitted Non-Degree to the Post-MSN Nurse Practitioner Certificate option must have an overall 3.0 GPA, with the minimum of a "B" letter grade in each course in order to earn the certificate. Students will become academically ineligible to continue course work if a grade of "C", "D", "F", or "WF" is earned in any of the nurse practitioner courses. Students must also meet any applicable College of Graduate Studies progression policies.

Nurse Practitioner Certificate Programs

An individualized Program of Study is developed by the Graduate Program Director of the School of Nursing after a Gap Analysis is performed. Students must submit their transcripts and their syllabi for each course to be considered as equal to the courses offered at Georgia Southern University for the completion of the certificate. To enroll in a Post MSN Certificate Program each applicant must show completion of the following courses in their MSN Program or must complete them prior to admission into the Certificate Program: Nursing Research, Advanced Health Assessment, Pathophysiology, and Pharmacology for Advanced Practice Nursing.

Program of Study

Required Courses	Credit Hours
NURS 7123 Psychodynamics of Health	19
NURS 8431 AC I - Adult and Gerontology Acute Care I	
NURS 8432 AC II - Adult and Gerontology Acute Care II	
NURS 8433 AC III - Adult and Gerontology Acute Care III	
NURS 8520 Capstone Practice and Professional Issues	
NURS 8727 ACC I - Adult and Gerontology Acute Care Clinical I	
NURS 8728 ACC II - Adult and Gerontology Acute Care Clinical II	
NURS 8729 ACC III - Adult and Gerontology Acute Care Clinical III	
Total Credit Hours	19

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Adult/Gerontology Primary Care Nurse Practitioner Post-MSN Certificate

Certificate Requirements: 19 Credit Hours

Student Outcomes

Student outcomes are consistent with the BSN to DNP program outcomes.

Admission Cycle

The admission application materials for the College of Graduate Studies (COGS) for NP certificate programs must be received by March 1st for admission consideration into the fall semester cohort. Phone interviews with individuals under consideration may be conducted prior to admission.

Admission Criteria

1. Master's degree in Nursing (APRN Program which includes Clinical Nurse Specialist, CRNA, Nurse Midwife, Nurse Practitioner) from a college accredited by the appropriate accrediting association.
2. Minimum graduate GPA of 3.0 (on 4.0 scale)
3. Pharmacology Course cannot be older than 5 years.
4. Current unrestricted RN license in state of residence and eligibility for a Georgia RN license
5. Certification as a Clinical Nurse Specialist, CRNA, Nurse Midwife, Nurse Practitioner
6. Submission/completion of the College of Graduate Studies application (on-line)
7. Three professional letters of recommendation.
8. Proof of current malpractice liability insurance as a RN and NP student
9. Must have the capability to fully utilize and interact within the on-line course delivery format of the institution.

Specific Admission Policy

The Nurse Practitioner certificate student will be admitted in Non-degree status and ineligible to enroll in other graduate courses unless admitted to that program. Only grades of "B" or better earned in the certificate are eligible for application to the nursing doctorate if the individual is later admitted to the Post MSN DNP degree program.

Progression Policy

A student admitted Non-Degree to the Post-MSN Nurse Practitioner Certificate option must have an overall 3.0 GPA, with the minimum of a "B" letter grade in each course in order to earn the certificate. Students will become academically ineligible to continue course work if a grade of "C", "D", "F", or "WF" is earned in any of the nurse practitioner courses. Students must also meet any applicable College of Graduate Studies progression policies.

Nurse Practitioner Certificate Programs

An individualized Program of Study is developed by the Graduate Program Director of the School of Nursing after a Gap Analysis is performed. Students must submit their transcripts and their syllabi for each course to be considered as equal to the courses offered at Georgia Southern University for the completion of the certificate. To enroll in a Post MSN Certificate Program each applicant must show completion of the following courses in their MSN Program or must complete them prior to admission into the Certificate Program: Nursing Research, Advanced Health Assessment, Pathophysiology, and Pharmacology for Advanced Practice Nursing.

Program of Study

Required Courses			Credit Hours
NURS 7123	Psychodynamics of Health		19
NURS 8531	PC I - Adult and Gerontology Primary Care I		
NURS 8532	PC II - Adult and Gerontology Primary Care II		
NURS 8533	PC III - Adult and Gerontology Primary Care III		
NURS 8520	Capstone Practice and Professional Issues		
NURS 8731	PCC I - Adult and Gerontology Primary Care Clinical I		
NURS 8732	PCC II - Adult and Gerontology Primary Care Clinical II		
NURS 8733	PCC III - Adult and Gerontology Primary Care Clinical III		
Total Credit Hours			19

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Doctor of Nursing Practice D.N.P. (Online)

Degree Requirements: 37 Credit Hours

Program Description

The Doctor of Nursing Practice (DNP) is a terminal degree committed to educating advanced practice nurses who possess the knowledge, skills and values necessary to contribute to and lead in the efforts to improve the health care delivery system of the nation. The DNP is a professional terminal degree with an applied nursing focus. Students are trained for advanced-science-based practice and practice-oriented research in private-and/or public sector careers to include clinical practice, health education, research application, leadership, and analysis of health care outcomes. The DNP is a versatile degree which prepares advanced practice nurses (nurse practitioners (NP), certified nurse midwives (CNM), certified registered nurse anesthetists (CRNA), and clinical nurse specialists (CNS) to provide leadership in public and private organizations; assess health care needs, develop and implement new health care practices, care and evaluate health care outcomes; recommend health care policy; and interact with other health care providers and agencies at diverse levels. The program serves both the full-time student preparing for an advanced career in advanced practice nursing, as well as currently employed nursing professionals seeking advanced education to augment their existing skills to assume leadership positions. The DNP program builds on a high quality nursing master's curriculum.

Model

The Post-Masters DNP requires a minimum of 37 credit hours and is offered on a full-time basis over 6 semesters. Guided by the AACN Essentials for Doctoral Education for Advanced Nursing Practice, sequencing of courses allows the development of content expertise prior to the initiation of the clinical project and experience core. A capstone practicum allows for role immersion and competency integration.

Admission Requirements

The DNP is designed to build upon the foundation of the Advanced Practice Registered Nurse (APRN) role. The DNP program is directed toward advanced practice registered nurses and closely associated specialty areas (i.e. NP, CNS, CRNA, CNM preparation), and other specialty areas reviewed on an individualized basis. All applicants prior course work will be reviewed and individual DNP programs of study will be developed.

Admission Criteria

1. Education
 - a. Post-MSN Master's degree in the proposed field of study (MSN) or its equivalent from a college accredited by the appropriate accrediting association.
2. Minimum undergraduate or graduate GPA of 3.0 (on 4.0 scale)
3. Current Georgia RN license or compact license that includes Georgia
4. Three letters of recommendation
5. Proof of American Heart Association 2-person (BLS) CPR certification
6. International students:
 - a. All international applicants, including resident and non-resident aliens, whose native language is not English and who do not have an undergraduate degree from a regionally accredited U.S. college or university, are required to submit official TOEFL scores taken within the year immediately preceding the requested semester of admission. A minimum total score of 83, and minimum scores of 20 for each of the skills evaluated by the TOEFL: Listening, Reading, Speaking, Writing. An original copy of the test score, sent by the testing agency to the Office of Graduate Admissions is required before any action is taken on an application. The copy of the score provided to the student and subsequently forwarded is not acceptable.

Grades

Students in DNP coursework must maintain a 3.0 average ("B" or better) in course work to proceed in the doctoral program and to be eligible to graduate. Grades in all courses applied toward the doctorate must be "B" or better. Students will become academically ineligible when any of the following occur in course work of an approved program of study:

1. a grade of "D", "F", or "WF" in any course;
2. a grade of "C" in any three courses; or
3. the minimum 3.0 average is not achieved within the minimum number of credit hours required for the degree

Transfer Credit

A maximum of 6 credits of doctoral level nursing credits and 9 credits of graduate level electives may be applied toward the DNP upon approval by the Graduate Nursing Program. Transfer credit must also satisfy the same requirements as course taught for doctoral education within the School of Nursing Graduate Program (e.g., minimum grade of "B"), be consistent with the student's approved program of study, and have been received from a regionally accredited college or university. Thesis and dissertation credit cannot be transferred. The student must provide documentation in support of equivalence, such as a course syllabus, transcript, term paper, and/or instructor testimony. Equivalence is determined by the

Faculty Advisor or Program Director. Credit reductions do not influence the residency or enrollment requirements or comprehensive examination procedures.

Course Time Limits

All requirements for the DNP must be completed within seven academic years from the date of the first enrollment for study following admission to the doctoral coursework. For transfer students, the seven year time limit commences with the semester during which the credit being transferred was earned at another institution.

Clinical Project

Doctoral students are required to complete a clinical project at an advanced level. A dissertation is not required. The clinical project may take diverse forms (e.g., identification of a health care problem, development of an intervention and analysis of outcomes; an investigation of a health issue with development of health policy strategies to address the health problem; or the development of a complex programmatic strategy within a health care system to address a significant issue). Upon completion of the clinical project the student must present the project to faculty and peers in an appropriate venue determined by the faculty. Submission of the project to a refereed professional organization for presentation or peer reviewed journal for publication is required. It is expected that a minimum of one peer reviewed presentation or peer reviewed publication will be achieved on DNP related content prior to completion of course work.

Faculty Advisor

Upon admission to the graduate program, a program of study (POS) will be provided to the graduate student. Any changes in the POS must be approved by the Graduate Program Director.

Accreditation

The School of Nursing Graduate Program is accredited by the Commission on Collegiate Nursing Education (CCNE). The MSN Program and the DNP Program were developed in accordance with the AACN Essentials for both Graduate and DNP Education. The MSN meets the NONPF National Standards for NP Programs, the Consensus Model, and the DNP Program Standards for NP preparation.

Program of Study

Course Requirements	Credit Hours
NURS 7090 Selected Topics Nursing ¹	37
NURS 7110 Scholarly Writing at the Graduate Level	
NURS 7130 Health Policy Concerns in Delivery Systems	
NURS 7890 Independent Study - Graduate ¹	
NURS 9113 Biometrics	
NURS 9123 Biomedical Ethics	
NURS 9124 Outcomes Management	
NURS 9125 Role Transition for DNP Prepared APRN's	
NURS 9143 Population Focused Collaborative Initiative	
NURS 9144 Leadership and Management in Practice Transformation	
NURS 9931 Clinical Project I	
NURS 9932 Clinical Project II	
NURS 9933 Clinical Project III	
Elective 1	
Elective 2	

Elective 3

Total Credit Hours 37

¹ NURS 7090 and NURS 7890 are independent study and special topics courses and are not part of the program of study.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Family Nurse Practitioner Post-MSN Certificate

Certificate Requirements: 19 Credit Hours

Student Outcomes

Student outcomes are consistent with the BSN to DNP program outcomes.

Admission Cycle

The admission application materials for the College of Graduate Studies (COGS) for NP certificate programs must be received by March 1st for admission consideration into the fall semester cohort. Students meeting all pre-requisites (pathophysiology, pharmacology, physical assessment) may be eligible for a January (spring semester) start date. Spring semester start must be approved by the Program Director. Phone interviews with individuals under consideration may be conducted prior to admission

Admission Criteria

1. Master's degree in Nursing (APRN Program which includes Clinical Nurse Specialist, CRNA, Nurse Midwife, Nurse Practitioner) from a college accredited by the appropriate accrediting association.
2. Minimum graduate GPA of 3.0 (on 4.0 scale)
3. Pharmacology Course cannot be older than 5 years.
4. Current unrestricted RN license in state of residence and eligibility for a Georgia RN license
5. Certification as a Clinical Nurse Specialist, CRNA, Nurse Midwife, Nurse Practitioner
6. Submission/completion of the College of Graduate Studies application (on-line)
7. Three professional letters of recommendation.
8. Proof of current malpractice liability insurance as a RN and NP student
9. Must have the capability to fully utilize and interact within the on-line course delivery format of the institution.

Specific Admission Policy

The Nurse Practitioner certificate student will be admitted in Non-degree status and ineligible to enroll in other graduate courses unless admitted to that program. Only grades of "B" or better earned in the certificate are eligible for application to the nursing doctorate if the individual is later admitted to the Post MSN DNP degree program.

Progression Policy

A student admitted Non-Degree to the Post-MSN Nurse Practitioner Certificate option must have an overall 3.0 GPA, with the minimum of a "B" letter grade in each course in order to earn the certificate. Students will become academically ineligible to continue course work if a grade of "C", "D", "F", or "WF" is earned in any of the nurse practitioner courses. Students must also meet any applicable College of Graduate Studies progression policies.

Nurse Practitioner Certificate Programs

An individualized Program of Study is developed by the Graduate Program Director of the School of Nursing after a Gap Analysis is performed. Students must submit their transcripts and their syllabi for each course to be considered as equal to the courses offered at Georgia Southern University for the completion of the certificate. To enroll in a Post MSN Certificate Program each applicant must show completion of the following courses in their MSN Program or must complete them prior to admission into the Certificate Program: **Nursing Research, Advanced Health Assessment, Pathophysiology, and Pharmacology for Advanced Practice Nursing.**

Program of Study

Required Courses	Credit Hours
	19
NURS 7123 Psychodynamics of Health	
NURS 8235 FNP I - Pediatrics	
NURS 8236 FNP II - Women's Health	
NURS 8237 FNP III - Adult and Gerontology	
NURS 8520 Capstone Practice and Professional Issues	
NURS 8721 FNPC I - Pediatric Clinical	
NURS 8722 FNPC II - Women's Health Clinical	
NURS 8723 FNPC III - Adult and Gerontology Clinical	
Total Credit Hours	19

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Nursing BSN to DNP

Degree Requirements: 77 Credit Hours (> 95% Online)

Programs Available

Post BSN to DNP with "Opt-Out" option; Post-MSN Certificate

Total Credits: 43 credits for Adult/Gerontology Acute Care NP, Adult/Gerontology Primary Care NP, FNP or PMHNP; additional 34 credits for DNP.

*For students who choose to opt out at the MSN, their credits will be 43 for Adult/Gerontology Acute Care NP, Adult/Gerontology Primary Care NP, FNP or PMHNP.

Admission Requirements

1. Bachelor's degree in the proposed field of study (BSN). BSN program must include a Health Assessment course with a grade of C or better.
2. Current Georgia RN license. Out-of-state students must obtain a Georgia RN license.
3. One year of full time clinical nursing employment prior to entering the nurse practitioner health assessment course. Proof of full time clinical nursing employment may be required.
 - a. If you are applying for the Adult/Gerontology Acute Care NP track, one year of critical care nursing employment.
4. Prerequisite undergraduate statistics course or a statistically oriented methodology course, with a grade of C or better.
5. Submission/completion of documentation:
 - a. College of Graduate Studies application
 - b. Georgia Southern Health Services form
 - c. School of Nursing Student Health Appraisal forms
 - d. Proof of current malpractice liability insurance
 - e. Proof of American Heart Association BLS certification
 - f. Three letters of professional recommendations. A phone interview may be necessary.

Specific Admission Policies

Must gain Regular Degree-Seeking Status admission to the BSN to DNP program to be eligible to enroll in graduate nursing courses. Non-degree students are not permitted to enroll in graduate nursing courses with the exception of students formally admitted to the Post-MSN Certificate option or with prior approval from the Graduate Program Director. The Graduate Program Director will make an admission decision recommendation following a review of the applicant's credentials. Admission decisions are made on a case by case basis.

1. Minimum undergraduate GPA of 3.0 (on a 4.0 scale).
2. All international applicants whose native language is not English and/or who do not have an undergraduate degree from a regionally accredited U. S. college or university, are required to submit official TOEFL scores taken within two years immediately preceding the requested semester of admission. An official copy of the test score, sent by the testing agency to the Office of Graduate Admissions is required before any action is taken on an application. All international students must comply with all graduate school requirements.
3. Criminal background and/or drug testing may be requested by clinical agencies. Cost and scheduling is the student's responsibility.
4. All applicants will be required to complete all clinical practicums with a qualified preceptor within 250 miles of Georgia Southern University.

Progression Requirements

1. Program progression: in accordance with College of Graduate Studies' policies.
 2. Clinical course progression: If a student is required to repeat any course with both a didactic and clinical component, then the student will be required to complete both courses.
 3. Any student who withdraws from a course or program must meet with the Graduate Program Director to determine their revised program of study. The student may be required to complete a one hour independent study (didactic or clinical) or repeat a previous course(s).
- All graduate nursing programs must be completed within a seven year time period. Students who "opt-out" of the BSN to DNP with an MSN and return within three consecutive semesters will need to contact the Graduate Program Director. If a student would like to return after three consecutive semesters they will need to apply to the College of Graduate Studies and Post MSN to DNP program.

Required Credits

Major: Nursing, Post BSN to DNP Total, 77 Hours
 MSN Opt-Out option concentration: Acute Care Nurse Practitioner, Adult/ Gerontology Nurse Practitioner, Adult/Gerontology Primary Care Nurse Practitioner Family Nurse Practitioner (FNP) or Psychiatric Mental Health Nurse Practitioner (PMHNP), 43 Hours

(585 didactic hours and 720 clinical hours)

Program of Study

	Credit Hours
Graduate Core	16
NURS 7121 Theoretical Basis for Clinical Scholarship	
NURS 7122 Research Design and Dissemination	
NURS 7123 Psychodynamics of Health	
NURS 7128 Epidemiology	
NURS 7129 Role Transition for APRN	
NURS 7130 Health Policy Concerns in Delivery Systems	
NURS 7135 Informatics	
Advanced Practice Core	10
NURS 7141 Pathophysiology and Differential Diagnosis	
NURS 7142 Advanced Pharmacology	
NURS 7143 Advanced Health Assessment	
NURS 7710 Advanced Health Assessment Clinical	
Nursing Emphasis	17
Select one of the following Emphasis:	
Adult/Gerontology Acute Care Nurse Practitioner	
NURS 8520 Capstone Practice and Professional Issues	
NURS 8431 AC I - Adult and Gerontology Acute Care I	
NURS 8432 AC II - Adult and Gerontology Acute Care II	
NURS 8433 AC III - Adult and Gerontology Acute Care III	
NURS 8727 ACC I - Adult and Gerontology Acute Care Clinical I	
NURS 8728 ACC II - Adult and Gerontology Acute Care Clinical II	
NURS 8729 ACC III - Adult and Gerontology Acute Care Clinical III	
Adult/Gerontology Primary Care Nurse Practitioner	
NURS 8520 Capstone Practice and Professional Issues	
NURS 8531 PC I - Adult and Gerontology Primary Care I	
NURS 8532 PC II - Adult and Gerontology Primary Care II	
NURS 8533 PC III - Adult and Gerontology Primary Care III	
NURS 8731 PCC I - Adult and Gerontology Primary Care Clinical I	
NURS 8732 PCC II - Adult and Gerontology Primary Care Clinical II	
NURS 8733 PCC III - Adult and Gerontology Primary Care Clinical III	
Family Nurse Practitioner	

NURS 8235 FNP I - Pediatrics	
NURS 8236 FNP II - Women's Health	
NURS 8237 FNP III - Adult and Gerontology	
NURS 8520 Capstone Practice and Professional Issues	
NURS 8721 FNPC I - Pediatric Clinical	
NURS 8722 FNPC II - Women's Health Clinical	
NURS 8723 FNPC III - Adult and Gerontology Clinical	
Psychiatric Mental Health Nurse Practitioner	
NURS 8314 Vulnerable Populations	
NURS 8335 PMHNP I - Mental Health Care of the Individual	
NURS 8336 PMHNP II - Care of the Individual and Family with Substance Abuse	
NURS 8337 PMHNP III - Complex Mental Health Care of Special Populations	
NURS 8520 Capstone Practice and Professional Issues	
NURS 8724 PMHNPC I - Mental Health Care of the Individual Clinical	
NURS 8725 PMHNPC II - Care of the Individual and Family with Substance Abuse Clinical	
NURS 8726 PMHNPC III - Complex Mental Health care of Special Populations Clinical	
Students may "Opt Out" at this time to receive the M.S.N.	
Doctoral Core	34
NURS 7090 Selected Topics Nursing ¹	
NURS 7110 Scholarly Writing at the Graduate Level	
NURS 7890 Independent Study - Graduate ¹	
NURS 9113 Biometrics	
NURS 9123 Biomedical Ethics	
NURS 9124 Outcomes Management	
NURS 9125 Role Transition for DNP Prepared APRN's	
NURS 9143 Population Focused Collaborative Initiative	
NURS 9144 Leadership and Management in Practice Transformation	
NURS 9931 Clinical Project I	
NURS 9932 Clinical Project II	
NURS 9933 Clinical Project III	
Select 9 credit hours of elective courses	
Elective 1	
Elective 2	
Elective 3	
Total Credit Hours	43-77

¹ NURS 7090 and NURS 7890 are independent study and special topics courses and are not part of the program of study.

Other Program Requirements

- See academic standards and regulations in the graduate section for information on Program of Study and comprehensive examination procedures.
- Students must meet the progression policies of College of Graduate Studies and the BSN to DNP or Post MSN DNP Program.
- Students who opt out with a MSN are eligible to sit for certification.

- Students who complete the graduate core, practice core, and specialty core and elect the MSN opt-out option degree from Georgia Southern University have four (4) years from the date of their MSN final transcript to re-apply to the DNP program to obtain their doctoral degree without penalty. After successfully completing the additional semesters of course work, students would obtain the Doctor of Nursing Practice Degree.
- Students who opt out are eligible to sit for certification.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Nursing M.S.N. (Online)

Degree Requirements: 36 Credit Hours

Programs Available:

M.S.N. Degree, with a focus in **Chronic Care Management**, 36 credit hours

M.S.N. Degree, with a focus in **Nursing Education**, 36 credit hours

Admission Requirements

1. Bachelor of Science in Nursing (BSN) degree or its equivalent from a college accredited by the appropriate accrediting association.
2. Minimum undergraduate GPA of 3.0 (on 4.0 scale)
3. Prerequisite-Statistics. Program requires a prerequisite in Introductory Statistics with a C or better.
4. The MAT or GRE is not required for admission.
5. Unrestricted and current single state Georgia RN license or a compact license that includes Georgia.
6. One year of full-time clinical nursing experience.
7. Submission/completion of all of the following materials:
 - Complete College of Graduate Studies online application (<http://cogs.georgiasouthern.edu/admission/start/applynow/>) with payment of required fee.
 - Three letters of recommendation. Forms in the online application are acceptable, or you can attach 3 recommendation letters to the application.
 - Proof of American Heart Association Level C (2 person-BLS) CPR certification.
 - Proof of RN licensure (write COPY) over any replication of license submitted.
8. Upon acceptance:
 - Georgia Southern University Health Services Form (must be completed before first-semester entry and updated each semester afterward)
 - School of Nursing Student Health forms (required before the first day of the first semester)
 - Proof of current RN malpractice liability insurance (policy cover page) with name, dates of coverage, amount.

Progression Requirements

- Course Progression: All courses must be completed with a minimum grade of "B"

Other Program Requirements

- See academic standards and regulations in the graduate section for information on Program of Study and comprehensive examination procedures.
- Students must meet the progression policies of College of Graduate Studies and the MSN Program.

Concentration: Chronic Care Management Program of Study

Required Courses	Credit Hours	
NURS 7110 Scholarly Writing at the Graduate Level	36	
NURS 7121 Theoretical Basis for Clinical Scholarship		
NURS 7122 Research Design and Dissemination		
NURS 7128 Epidemiology		
NURS 7130 Health Policy Concerns in Delivery Systems		
NURS 7135 Informatics		
NURS 7141 Pathophysiology and Differential Diagnosis		
NURS 7142 Advanced Pharmacology		
NURS 7143 Advanced Health Assessment		
NURS 7710 Advanced Health Assessment Clinical		
NURS 9123 Biomedical Ethics		
Specialty Courses:		
NURS 7532 Chronic Care Management I		
NURS 7542 Chronic Care Management II		
NURS 7543 Chronic Care Management Capstone		

Total Credit Hours 36

Concentration: Nursing Education Program of Study

Required Courses	Credit Hours	
NURS 7110 Scholarly Writing at the Graduate Level	36	
NURS 7121 Theoretical Basis for Clinical Scholarship		
NURS 7135 Informatics		
NURS 7141 Pathophysiology and Differential Diagnosis		
NURS 7142 Advanced Pharmacology		
NURS 7143 Advanced Health Assessment		
NURS 7710 Advanced Health Assessment Clinical		
NURS 9123 Biomedical Ethics		
Specialty Courses:		
NURS 7136 Theoretical Perspectives of Teaching and Learning in Nursing Education		
NURS 7137 Curriculum Design and Evaluation in Nursing Education		
NURS 7138 Teaching Strategies and Methods in Nursing Education		

NURS 7139	Assessment, Measurement and Evaluation in Nursing Education
NURS 7720	Clinical Specialty Practicum
NURS 7721	Nursing Education Capstone

Total Credit Hours **36**

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Psychiatric Mental Health Nurse Practitioner Post-MSN Certificate

Certificate Requirements: 19 Credit Hours

Student Outcomes

Student outcomes are consistent with the BSN to DNP program outcomes.

Admission Cycle

The admission application materials for the College of Graduate Studies (COGS) for NP certificate programs must be received by March 1st for admission consideration into the fall semester cohort. Students meeting all pre-requisites (pathophysiology, pharmacology, physical assessment) may be eligible for a January (spring semester) start date. Spring semester start must be approved by the Program Director. Phone interviews with individuals under consideration may be conducted prior to admission.

Admission Criteria

1. Master's degree in Nursing (APRN Program which includes Clinical Nurse Specialist, CRNA, Nurse Midwife, Nurse Practitioner) from a college accredited by the appropriate accrediting association.
2. Minimum graduate GPA of 3.0 (on 4.0 scale)
3. Pharmacology Course cannot be older than 5 years.
4. Current unrestricted RN license in state of residence and eligibility for a Georgia RN license
5. Certification as a Clinical Nurse Specialist, CRNA, Nurse Midwife, Nurse Practitioner
6. Submission/completion of the College of Graduate Studies application (on-line)
7. Three professional letters of recommendation.
8. Proof of current malpractice liability insurance as a RN and NP student
9. Must have the capability to fully utilize and interact within the on-line course delivery format of the institution.

Specific Admission Policy

The Nurse Practitioner certificate student will be admitted in Non-degree status and ineligible to enroll in other graduate courses unless admitted to that program. Only grades of "B" or better earned in the certificate are

eligible for application to the nursing doctorate if the individual is later admitted to the Post MSN DNP degree program.

Progression Policy

A student admitted Non-Degree to the Post-MSN Nurse Practitioner Certificate option must have an overall 3.0 GPA, with the minimum of a "B" letter grade in each course in order to earn the certificate. Students will become academically ineligible to continue course work if a grade of "C", "D", "F", or "WF" is earned in any of the nurse practitioner courses. Students must also meet any applicable College of Graduate Studies progression policies.

Nurse Practitioner Certificate Programs

An individualized Program of Study is developed by the Graduate Program Director of the School of Nursing after a Gap Analysis is performed. Students must submit their transcripts and their syllabi for each course to be considered as equal to the courses offered at Georgia Southern University for the completion of the certificate. To enroll in a Post MSN Certificate Program each applicant must show completion of the following courses in their MSN Program or must complete them prior to admission into the Certificate Program: Nursing Research, Advanced Health Assessment, Pathophysiology, and Pharmacology for Advanced Practice Nursing.

Program of Study

Required Courses		Credit Hours
NURS 7123	Psychodynamics of Health	19
NURS 8314	Vulnerable Populations	
NURS 8335	PMHNP I - Mental Health Care of the Individual	
NURS 8336	PMHNP II - Care of the Individual and Family with Substance Abuse	
NURS 8337	PMHNP III - Complex Mental Health Care of Special Populations	
NURS 8520	Capstone Practice and Professional Issues	
NURS 8724	PMHNPC I - Mental Health Care of the Individual Clinical	
NURS 8725	PMHNPC II - Care of the Individual and Family with Substance Abuse Clinical	
NURS 8726	PMHNPC III - Complex Mental Health care of Special Populations Clinical	
Total Credit Hours		

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu
 (gradschool@georgiasouthern.edu)

Jiann-Ping Hsu College of Public Health

The Jiann-Ping Hsu College of Public Health (JPHCOPH) created January 2006 and accredited by the Council on Education for Public Health (CEPH). The College exists to provide public health education, research, and community service that will positively impact the quality of life and health disparities of rural and underserved populations. The establishment of the College was made possible by a generous gift from Dr. Karl E. Peace, in memory and honor of his wife, Dr. Jiann-Ping Hsu.

Vision

The Jiann-Ping Hsu College of Public Health will be the nationally recognized leader in the empowerment of rural communities and underserved populations to address public health issues, eliminate health disparities and improve health outcomes.

Mission

The mission of the Jiann-Ping Hsu College of Public Health is to improve health, eliminate health disparities and health inequities of rural communities and underserved populations globally through excellence in teaching, public health workforce development, research, scholarship, professional service and community engagement.

College Structure

- Certificate in Public Health (Online) (p. 198)
- Department of Biostatistics, Epidemiology and Environmental Health Sciences (p. 200)
- Department of Health Policy and Community Health (p. 208)
- Doctor of Public Health (p. 218)
- Master of Public Health (p. 222)
- Structure (p. 225)

About Public Health

The Institute of Medicine (IOM) has defined the role of public health as "...the fulfillment of society's interest in assuring the conditions in which people can be healthy" (IOM, 1988).

Public health activities focus on improving the health of communities. Public health is also defined as the art and science of promoting health, preventing disease, and prolonging life among human populations; the broad mission of public health is to enhance human health through organized community efforts (Council on Education for Public Health, 1978).

A diverse and ever-expanding field of practice, public health embraces an ecological approach that recognizes the interactions and relationships among multiple determinants of health. It involves the dissemination of reliable information for policy decisions; identifying systemic inequalities and problems; protecting the public's health and safety through education and research; and fostering partnerships with individuals, communities, and organizations to promote health.

Though public health involves the knowledge and application of many disciplines in its research, teaching, service, and practice activities, the following have been identified as fundamental, core areas to the practice of public health (CEPH Accreditation Criteria, 2011):

- **Biostatistics** - collection, storage, retrieval, analysis and interpretation of health data; design and analysis of health-related surveys and experiments; and concepts and practice of statistical data analysis;

- **Environmental Health Sciences** - environmental factors including biological, physical, and chemical factors that affect the health of a community;
- **Epidemiology** - distributions and determinants of disease, disabilities, and death in human populations; the characteristics and dynamics of human populations; and the natural history of disease and the biologic basis of health;
- **Health Policy & Management** - planning, organization, administration, management, evaluation, and policy analysis of health and public health programs; and
- **Community Health Education/Social and Behavioral Sciences** - concepts and methods of social and behavioral sciences relevant to the identification and solution of public health problems.

The teaching, research, and service activities of the Jiann-Ping Hsu College of Public Health are grounded in these core public health knowledge areas. Our goals for workforce development, community-based research and community-based service help us focus our efforts on cross disciplinary projects that build on the synergistic effects of these core knowledge areas.

Public health is concerned with protecting the health of communities, both small and large. Public health professionals focus on building on assets and preventing problems from happening or re-occurring through implementing educational programs, developing policies, administering services, and conducting research in concert with, but in contrast to, clinical health professionals (e.g., physicians and nurses) who focus primarily on treating individuals after they become sick or injured. No matter what form public health assumes, its goal is always the same: to improve the quality of life of individuals, families, and communities by focusing on prevention, promotion, and protection.

This preventive model encompasses three core functions:

1. assessing and monitoring the health of communities and at-risk populations to identify health problems and establish priorities;
2. formulating public policies in collaboration with community and government leaders designed to prioritize and solve local and national health problems; and
3. assuring that all populations have access to appropriate and cost-effective health care, including health promotion and disease prevention services, and evaluating the effectiveness of the care.

Our Shared Values

The Jiann-Ping Hsu College of Public Health is endowed by Dr. Karl E. Peace as a tribute to his wife and an enduring celebration of her life characterized by "a zeal for excellence, consideration of others, intelligence and scholarship, honesty, kindness and humility." In honor of Dr. Hsu, the faculty, students and staff of the JPHCOPH commit to demonstrate these values in our behavior toward one another and to those that we serve.

In 2007, the JPHCOPH students, faculty and staff worked together to clarify the following list of shared core values. These values serve to guide decision making for our workforce development, research, professional service and community engagement activities. We will also use these values to help us make choices about how to move forward when the path is not clear.

- Excellence in research, service and instruction.
- Passion for improving the health of rural communities and underserved populations.
- Responsibility for promoting health equity and eliminating health disparities in rural communities and underserved populations.
- Commitment to community involvement.

- Collaboration for problem solving.
- Commitment to developing as a "learning organization".

Experiential Learning Opportunities

All M.P.H. students are required to complete a practicum experience and an integrated capstone experience. The practicum and capstone experience are both competency-based. The 300 hour in agency practicum provides the student the opportunity to further develop and integrate skills learned in the classroom. An electronic portfolio about the practicum is submitted at completion of the 300 hours. The capstone experience serves to facilitate problem solving skills through the integration of public health principles across all concentrations. Elements of these two experiences make up the culminating experience for the M.P.H.

All Dr.P.H. students are required to complete a preceptorship in Public Health, a teaching experience, candidacy exams, and a Dissertation. The preceptorship/field experience consists of 300 hours of field experience under the joint direction of a qualified specialist working in selected areas of public health. An electronic portfolio about the activities and outcomes of the experience is required upon completion of the preceptorship. Students will work with the Center for Teaching Excellence (CTE) and the Office of the Provost to successfully complete training and teach at least one course. Students must successfully pass a candidacy exam on the core and concentration competencies to begin the preceptorship and dissertation. The doctoral dissertation is a culminating experience that requires the student to synthesize and integrate knowledge and apply theory and principles learned to an area of public health practice within the area of concentration. The dissertation must also be presented and successfully defended before the faculty.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Programs

Master's

- Public Health M.P.H. (Concentration in Applied Public Health) (Online) (p. 209)
- Public Health M.P.H. (Concentration in Biostatistics) (p. 204)
- Public Health M.P.H. (Concentration in Community Health) (p. 215)
- Public Health M.P.H. (Concentration in Environmental Health Sciences) (p. 205)
- Public Health M.P.H. (Concentration in Epidemiology) (p. 207)
- Public Health M.P.H. (Concentration in Health Policy and Management) (p. 217)

Doctoral

- Doctor of Public Health (p. 218)
- Public Health Dr.P.H. (Concentration in Biostatistics) (p. 200)
- Public Health Dr.P.H. (Concentration in Community Health Behavior and Education) (p. 210)
- Public Health Dr.P.H. (Concentration in Epidemiology) (p. 202)

- Public Health Dr.P.H. (Concentration in Health Policy and Management) (p. 212)
- Public Health Dr.P.H. (Concentration in Public Health Leadership) (Online) (p. 214)

Certificates

- Certificate in Public Health (Online) (p. 198)

Contacts

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Certificate in Public Health (Online)

Degree Requirements: 15 Credit Hours

Admission Requirements

The Jiann-Ping Hsu College of Public Health (JPHCOPH) Certificate in Public Health is an **ONLINE** program. International applicants are eligible to apply for the Certificate in Public Health if he/she plans to complete the program from outside the U.S. International applicants are not eligible to apply for a student visa, nor can they maintain their current F-1/J-1 status in a fully online program.

Students who wish to obtain the Certificate in Public Health need not be enrolled in the M.P.H. program but must still apply and be admitted to the certificate program. Admission into the Certificate in Public Health program does not guarantee subsequent admission to a graduate degree program. Applying to a graduate degree program is a separate process and different criteria must be met.

Regular Admission

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.

2. **Degree** - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.*
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course- by-Course Report.*
 - Upload transcript(s) from all institutions attended. (*Do NOT send transcripts to SOPHAS Express*)*
4. **Grade Point Average (GPA)** - Minimum cumulative GPA of 2.0/4.0 scale in either:
 - Upper division undergraduate courses; OR
 - Upper division graduate courses.
5. **English Language Proficiency** - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, International applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.
 - A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Go to <http://www.ets.org/toefl> and request your TOEFL scores be sent to us using code #5253.
6. **Letters of Recommendation** - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.
7. **Curriculum Vitae/Resume** - A CV/Resume that includes the following:
 - a. educational experiences,
 - b. professional goals and objectives,
 - c. work history,
 - d. professional experiences, memberships and/or participation in professional organizations,
 - e. experiences in public health programs.
8. **Statement of Purpose** - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

official transcripts and TOEFL/IELTS scores following notification of admission will result in revocation of the admission offer.

Official documents must be mailed to:
 Georgia Southern University
 Office of Graduate Admissions
 P.O. Box 8113
 Statesboro, GA 30460-8113

Appeals

Students who wish to appeal an admission decision must follow the College of Graduate Studies appeal procedures.

Program of Study

The Certificate program requires a total of 16 credit hours and is offered fully online through the Master of Public Health (M.P.H.) program. All courses will be offered every fall and spring semester. The proposed courses are as follows:

Course Requirements	Credit Hours
PUBH 6532 Environmental Health	15
PUBH 6533 Epidemiology	
PUBH 6534 Health Policy and Management	
PUBH 6535 Social and Behavioral Sciences and Public Health	
PUBH 6541 Biostatistics	
Total Credit Hours	15

Other Program Requirements

To be awarded a graduate certificate, the student:

1. Must not be on probation,
2. Must have a cumulative GPA of 3.0 or higher on graduate coursework and on coursework applied to the certificate,
3. Must meet all the requirements of the College of Graduate Studies and the student's certificate program, and
4. Must be enrolled during the semester in which the certificate requirements are completed.

After earning the Certificate, all students are welcome to apply to the M.P.H. program which has face-to-face and online options. Certificate earning students will not be required to submit official scores from the GRE in order to apply. Those applicants who are admitted to the M.P.H. program will receive credit for 16 credit hours toward their M.P.H. degree. The M.P.H. degree requires a total of 45 credit hours, whereby in addition to core public health courses, students pursue an area of concentration in public health.

The completion of the Certificate in Public Health program will satisfy the prerequisite requirements for those students who wish to apply for the Dr.P.H. program but have not completed at least one graduate-level course in each of the five core areas of public health.

The completion of the Certificate in Public Health program must not be confused with the Certified in Public Health (CPH) Exam offered by the National Board of Public Health Examiners. The Certificate in Public Health is not a credentialing program. However, the completion of the Certificate in Public Health program will satisfy one of the requirements to sit for the CPH Exam. Other specific requirements to sit for the CPH Exam can be found at the website for the National Board of Public Health Examiners <https://www.nbphe.org> (<https://www.nbphe.org/>).

***NOTE:** Unofficial documents must be uploaded for review purposes. **Official transcripts and TOEFL/IELTS scores are only required if you are offered admission.** Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) and official TOEFL/IELTS scores mailed directly from the testing company are required **PRIOR** to the first day of classes of the original semester of acceptance. **Failure to provide the**

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Biostatistics, Epidemiology and Environmental Health Sciences

Biostatistics

Are you looking for biostatistics graduate programs that prepare you for a career that excels? Our programs prepare you to develop and apply statistical reasoning and methods. Topics include addressing, analyzing and solving problems in public health, health care, biomedical, clinical and population#based research.

The department offers two degrees: a Dr.P.H. in Biostatistics and an M.P.H. in Biostatistics.

Epidemiology

Do you want to become an applied epidemiologist in public health? In our programs you will study diseases of the human body in order to explain occurrence, distribution and causative factors of diseases in human populations.

The department offers two degrees: a Dr.P.H. in Epidemiology and an M.P.H. in Epidemiology.

Environmental Health Sciences

Are you interested in the environmental and occupational factors that impact our public's health? Students in this program will find a dedication to rigorous evidence-based science, collaboration and a strong commitment of a service learning approach to instruction. Students work very closely with the faculty and engage in multiple service and research projects bridging theory and practice.

The department offers an M.P.H. in Environmental Health Sciences.

Programs

Master's

- Public Health M.P.H. (Concentration in Biostatistics) (p. 204)
- Public Health M.P.H. (Concentration in Environmental Health Sciences) (p. 205)
- Public Health M.P.H. (Concentration in Epidemiology) (p. 207)

Doctoral

- Public Health Dr.P.H. (Concentration in Biostatistics) (p. 200)
- Public Health Dr.P.H. (Concentration in Epidemiology) (p. 202)

Public Health Dr.P.H. (Concentration in Biostatistics)

Degree Admission Requirements: 60 Credit Hours

Regular Admission ¹

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS).

2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution. Applicants who do not have a graduate degree in Public Health will be required to complete prerequisite Public Health coursework.

3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (**NOTE:** SOPHAS will **NOT** process your application without receiving all official transcripts. *Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.*)

• All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.

• Transcript(s) should show completion of at least one (1) graduate-level core course in each of the following five (5) areas: biostatistics, epidemiology, social and behavioral sciences in public health, health policy and management, and environmental health. (Applicant may be asked to provide syllabi for courses taken.)

• Courses must have been completed in the last five (5) years and each must have been passed with a grade of "B" or better. Applicants who have not completed these courses, but whose applications show exceptional potential for success in the Dr.P.H. program, may be admitted to the Dr.P.H. program, but will be required to complete the courses (as presented in the JPHCOPH M.P.H. core course requirements) with grades of "B" or better before progressing to the Public Health Core and Concentration Courses of the Dr.P.H. program. If the applicant has completed a Master's degree in a field other than public health, professional public health work experience in one or more of the five core areas may be substituted for the corresponding M.P.H. level courses at the discretion of the College. Applicants who took these courses more than five years ago but who work in the Public Health field may request a waiver. Requests for this waiver must be submitted in writing to jphcoph-admissions@georgiasouthern.edu.

4. **Grade Point Average (GPA)** - Preferred minimum cumulative GPA of 3.0/4.0 scale in upper division graduate courses. Competitive candidates will have a graduate GPA of 3.5 or higher.

5. **Graduate Record Examination (GRE)** - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560. Competitive applicants will have a total score of 300 or higher on the combination of verbal and quantitative sections and an analytic writing score at the 50th percentile or higher. The requirement for completion of a standardized test will be waived for those applicants who hold a terminal degree from a regionally accredited college or university.

6. **English Language Proficiency** - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL)

(<http://www.ets.org/toefl> (<http://www.ets.org/toefl/>)) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) (<http://www.ielts.org/>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.

A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Go to <http://www.ets.org/toefl> and request your TOEFL scores be sent to us using code #5253.

7. Letters of Recommendation - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

8. Curriculum Vitae/Resume - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.

9. Statement of Purpose - A Statement of Purpose (700-1,000 words) that conveys the applicant's reasons for pursuing a Dr.P.H. in Public Health and how admission into the program relates to the applicant's professional aspirations.

10. Applicants demonstrating potential for success in the Dr.P.H. program may be required to participate in an in-person or telephone interview prior to a final decision by the admissions committee.

¹ *Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment. For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.*

Non-degree Admission Requirements

An applicant may be admitted as a Non-Degree (Doctorate) student to earn credit hours in **DOCTORAL-LEVEL Public Health courses** without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.

2. Degree - Completion of a Master's or terminal degree from a regionally accredited institution.

3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.¹

All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.¹

Upload transcript(s) from all institutions attended. (*Do NOT send transcripts to SOPHAS Express*)¹

4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR
- Upper division graduate courses

5. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

¹ **NOTE:** Unofficial documents must be uploaded for review purposes. **Official transcripts are only required if you are offered admission.** Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required **PRIOR** to the first day of classes of the original semester of acceptance. **Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer.**

Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will work with the Center for Teaching Excellence (CTE) and the Office of the Provost to successfully complete training and teach at least one course (this does not apply to students that are hired as a teaching assistant).

Program of Study

	Credit Hours
Public Health Core Courses	12
PUBH 7132 Scientific Basis of Public Health	
PUBH 9132 Public Health Perspectives in Community-Based and Translational Research	
PUBH 9134 Professionalism and Ethics in Public Health Practice	
PUBH 7140 Applied Statistical Methods in Public Health	
Required Concentration Specific Courses	24
BIOS 9131 Advanced Statistical Theory for Biostatistics I	
BIOS 9132 Advanced Clinical Trials	
BIOS 9133 Advanced Statistical Theory for Biostatistics II	
BIOS 9134 Stochastic Process for Biological Systems	
BIOS 9135 Advanced Survival Analysis	
BIOS 9136 General and Generalized Linear Models	
BIOS 9231 Bayesian Statistics I	
BIOS 9333 Applied Longitudinal Data Analysis	
Electives	12
Must take 12 hours of Advisor Approved Electives	
BIOS 7331 Multivariate Analysis in Biostatistics	
BIOS 7431 Statistical Issues in Drug Development	
BIOS 7535 Data Analysis with SAS	
BIOS 9331 Meta-Analysis	

BIOS 9432	Randomization and Bootstrap Methods in Health Data	
EPID 8230	Observational Study Design and Analysis	
PUBH 9130	Sampling Methodology	
Doctoral Public Health Field Preceptorship		3
PUBH 9790	Doctoral Preceptorship in Public Health	
Note: 300 hours of field experience under the joint direction of a public health faculty member and a qualified specialist working in the area of concentration.		
Dissertation		9-18
PUBH 9999	Dissertation	
Total Credit Hours		60-69

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Public Health Dr.P.H. (Concentration in Epidemiology)

Degree Admission Requirements: 60 Credit Hours

Regular Admission ¹

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS).

2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution. Applicants who do not have a graduate degree in Public Health will be required to complete prerequisite Public Health coursework.

3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (**NOTE:** SOPHAS will **NOT** process your application without receiving all official transcripts. *Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.*)

· All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.

· Transcript(s) should show completion of at least one (1) graduate-level core course in each of the following five (5) areas: biostatistics, epidemiology, social and behavioral sciences in public health, health policy and management, and environmental health. (Applicant may be asked to provide syllabi for courses taken.)

· Courses must have been completed in the last five (5) years and each must have been passed with a grade of "B" or better. Applicants who have not completed these courses, but whose applications show exceptional potential for success in the Dr.P.H. program, may be admitted

to the Dr.P.H. program, but will be required to complete the courses (as presented in the JPHCOPH M.P.H. core course requirements) with grades of "B" or better before progressing to the Public Health Core and Concentration Courses of the Dr.P.H. program. If the applicant has completed a Master's degree in a field other than public health, professional public health work experience in one or more of the five core areas may be substituted for the corresponding M.P.H. level courses at the discretion of the College. Applicants who took these courses more than five years ago but who work in the Public Health field may request a waiver. Requests for this waiver must be submitted in writing to jphcoph-admissions@georgiasouthern.edu.

4. **Grade Point Average (GPA)** - Preferred minimum cumulative GPA of 3.0/4.0 scale in upper division graduate courses. Competitive candidates will have a graduate GPA of 3.5 or higher.

5. **Graduate Record Examination (GRE)** - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560. Competitive applicants will have a total score of 300 or higher on the combination of verbal and quantitative sections and an analytic writing score at the 50th percentile or higher. The requirement for completion of a standardized test will be waived for those applicants who hold a terminal degree from a regionally accredited college or university.

6. **English Language Proficiency** - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl> (<http://www.ets.org/toefl/>)) or the International English Language Testing System (IELTS) (<http://www.ielts.org> (<http://www.ielts.org/>)) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.

· A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Go to <http://www.ets.org/toefl> and request your TOEFL scores be sent to us using code #5253.

7. **Letters of Recommendation** - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

8. **Curriculum Vitae/Resume** - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.

9. **Statement of Purpose** - A Statement of Purpose (700-1,000 words) that conveys the applicant's reasons for pursuing a Dr.P.H. in Public Health and how admission into the program relates to the applicant's professional aspirations.

10. Applicants demonstrating potential for success in the Dr.P.H. program may be required to participate in an in-person or telephone interview prior to a final decision by the admissions committee.

¹ *Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment. For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.*

Non-degree Admission Requirements

An applicant may be admitted as a Non-Degree (Doctorate) student to earn credit hours in **DOCTORAL-LEVEL Public Health courses** without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

- Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.
- Degree** - Completion of a Master's or terminal degree from a regionally accredited institution.
- Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.¹

- All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.¹

- Upload transcript(s) from all institutions attended. (*Do NOT send transcripts to SOPHAS Express*)¹

4. **Grade Point Average (GPA)** - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR
- Upper division graduate courses

5. **Statement of Purpose** - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

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Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will work with the Center for Teaching Excellence (CTE) and the Office of the Provost to successfully complete training and teach at least one course (this does not apply to students that are hired as a teaching assistant).

Program of Study

			Credit Hours
Public Health Core Courses			12
PUBH	7132	Scientific Basis of Public Health	
PUBH	9132	Public Health Perspectives in Community-Based and Translational Research	
PUBH	9134	Professionalism and Ethics in Public Health Practice	
PUBH	7140	Applied Statistical Methods in Public Health	
Required Concentration Specific Courses			24
BIOS	6531	Categorical Data Analysis	
BIOS	7131	Survival Analysis	
EPID	8230	Observational Study Design and Analysis	
EPID	8130	Field Methods in Epidemiology	
EPID	9131	Epidemiology of Infectious Diseases of Direct Transmission	
EPID	9231	Chronic Disease Epidemiology	
EPID	9234	Interventional Epidemiology	
PUBH	8133	Advanced Epidemiology	
Electives			12
Select 12 hours of Advisor Approved Electives			
ENVH	8335	Global Water Quality and Health: Principles and Research	
ENVH	8435	Toxicology and Health	
ENVH	9133	Vector-Borne and Zoonotic Diseases: Biology Epidemiology and Control	
EPID	9132	Epidemiology of Infectious Diseases Transmitted via Bodily Fluids	
EPID	9232	Cardiovascular Disease Epidemiology	
EPID	9431	Mental Health Epidemiology	
PUBH	9130	Sampling Methodology	
PUBH	9135	Public Health, Funding and Grantsmanship	
Doctoral Public Health Field Practicum			3
PUBH	9790	Doctoral Preceptorship in Public Health	
Note: 300 Hours of field experience under the joint direction of a public health faculty member and a qualified specialist working in the area of concentration.			
Dissertation			9-18
PUBH	9999	Dissertation	
Total Credit Hours			60-69

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Public Health M.P.H. (Concentration in Biostatistics)

Degree Requirements: 45 Credit Hours

Admission Requirements

Regular Admission

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS).
2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (NOTE: SOPHAS will NOT process your application without receiving all official transcripts. Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.)
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report
4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:
 - Upper division undergraduate courses; OR
 - Upper division graduate courses
5. Graduate Record Examination (GRE) - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560.
6. English Language Proficiency - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.
 - A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Official IELTS scores should be sent to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.
7. Letters of Recommendation - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

8. Curriculum Vitae/Resume - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.

9. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment.

Provisional Admission

Admission may be granted to those individuals who do not fully satisfy the admission requirements. You must earn grades of "B" or better in your first nine (9) semester hours taken at Georgia Southern University following the effective admission term to obtain Regular Admission. A provisional student may enroll in graduate courses leading to a degree and such courses may count in a degree program once the student has changed to Regular Admission. Only credit earned in graduate courses at Georgia Southern University will satisfy provisional admission requirements. Failure to satisfy these requirements will result in an ineligibility to continue studies in the College of Graduate Studies. Provisional students are not eligible for Graduate Assistantship positions.

For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.

Non-Degree Admission Requirements

An applicant may be admitted as a Non-Degree (Master's) student to earn credit hours in MASTER'S-LEVEL Public Health courses without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.
2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.*
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.*
 - Upload transcript(s) from all institutions attended. (Do NOT send transcripts to SOPHAS Express
4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:
 - Upper division undergraduate courses; OR
 - Upper division graduate courses.
5. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*NOTE: Unofficial documents must be uploaded for review purposes. Official transcripts are only required if you are offered admission. Following

notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required PRIOR to the first day of classes of the original semester of acceptance. Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer. Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will complete a professional development requirement that consists of four modules: networking, career services, interprofessional education, and cultural competence.

Program of Study

	Credit Hours
Public Health Core Courses	15
PUBH 5520G Introduction to Public Health	
PUBH 6532 Environmental Health	
PUBH 6533 Epidemiology	
PUBH 6534 Health Policy and Management	
PUBH 6535 Social and Behavioral Sciences and Public Health	
Biostatistics Courses	21
BIOS 6135 Topics of Inference in Biostatistics I	
BIOS 6136 Topics of Inference in Biostatistics II	
BIOS 6331 Regression Analysis in Biostatistics	
BIOS 6332 Experimental Design in Biostatistics	
BIOS 6531 Categorical Data Analysis	
BIOS 7231 Clinical Trials Methodology	
BIOS 7544 Data Management for Biostatistics	
Select one of the following guided electives:	3
BIOS 7090 Selected Topics in Biostatistics	
BIOS 7131 Survival Analysis	
BIOS 7331 Multivariate Analysis in Biostatistics	
BIOS 7431 Statistical Issues in Drug Development	
BIOS 7535 Data Analysis with SAS	
Practicum and Culminating Experience	6
PUBH 7530 Integrated Capstone Experience	
PUBH 7790 Practicum in Public Health	
Total Credit Hours	45

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Public Health M.P.H. (Concentration in Environmental Health Sciences)

Degree Requirements: 45 Credit Hours

Admission Requirements

Regular Admission

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS).

2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.

3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (NOTE: SOPHAS will NOT process your application without receiving all official transcripts. Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.)

· All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report

4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR
- Upper division graduate courses

5. English Language Proficiency - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.

· A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Official IELTS scores should be sent to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

6. Letters of Recommendation - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

7. Curriculum Vitae/Resume - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work

history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.

8. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment.

Provisional Admission

Admission may be granted to those individuals who do not fully satisfy the admission requirements. You must earn grades of "B" or better in your first nine (9) semester hours taken at Georgia Southern University following the effective admission term to obtain Regular Admission. A provisional student may enroll in graduate courses leading to a degree and such courses may count in a degree program once the student has changed to Regular Admission. Only credit earned in graduate courses at Georgia Southern University will satisfy provisional admission requirements. Failure to satisfy these requirements will result in an ineligibility to continue studies in the College of Graduate Studies. Provisional students are not eligible for Graduate Assistantship positions.

For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.

Non-Degree Admission Requirements

An applicant may be admitted as a Non-Degree (Master's) student to earn credit hours in MASTER'S-LEVEL Public Health courses without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.
2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.*

· All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.*

· Upload transcript(s) from all institutions attended. (Do NOT send transcripts to SOPHAS Express)

4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR
- Upper division graduate courses.

5. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*NOTE: Unofficial documents must be uploaded for review purposes. Official transcripts are only required if you are offered admission. Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required

PRIOR to the first day of classes of the original semester of acceptance. Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer. Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will complete a professional development requirement that consists of four modules: networking, career services, interprofessional education, and cultural competence.

Program of Study

	Credit Hours
Public Health Core Courses	18
PUBH 5520G Introduction to Public Health	
PUBH 6532 Environmental Health	
PUBH 6533 Epidemiology	
PUBH 6534 Health Policy and Management	
PUBH 6535 Social and Behavioral Sciences and Public Health	
PUBH 6541 Biostatistics	
Environmental Health Sciences Courses	21
ENVH 7231 Air Quality	
ENVH 7232 Water Quality	
ENVH 7233 Environmental Exposure and Impact Assessment	
or ENVH 7239 Public Health Laboratory	
ENVH 7234 Environmental Toxicology	
ENVH 7235 Field Methods in Environmental Health	
ENVH 7237 Risk Assessment and Communication	
Guided Elective	
Practicum and Culminating Experience	6
PUBH 7530 Integrated Capstone Experience	
PUBH 7790 Practicum in Public Health	
Total Credit Hours	45

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Public Health M.P.H. (Concentration in Epidemiology)

Degree Requirements: 45 Credit Hours

Degree Admission Requirements

Regular Admission

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS).

2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.

3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (NOTE: SOPHAS will NOT process your application without receiving all official transcripts. Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.)

- All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report

4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR

- Upper division graduate courses

5. Graduate Record Examination (GRE) - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560.

6. English Language Proficiency - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.

- A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Official IELTS scores should be sent to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

7. Letters of Recommendation - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

8. Curriculum Vitae/Resume - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.

9. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment.

Provisional Admission

Admission may be granted to those individuals who do not fully satisfy the admission requirements. You must earn grades of "B" or better in your first nine (9) semester hours taken at Georgia Southern University following the effective admission term to obtain Regular Admission. A provisional student may enroll in graduate courses leading to a degree and such courses may count in a degree program once the student has changed to Regular Admission. Only credit earned in graduate courses at Georgia Southern University will satisfy provisional admission requirements. Failure to satisfy these requirements will result in an ineligibility to continue studies in the College of Graduate Studies. Provisional students are not eligible for Graduate Assistantship positions.

For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.

Non-Degree Admission Requirements

An applicant may be admitted as a Non-Degree (Master's) student to earn credit hours in MASTER'S-LEVEL Public Health courses without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.

2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.

3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.*

- All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.*

- Upload transcript(s) from all institutions attended. (Do NOT send transcripts to SOPHAS Express

4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR

- Upper division graduate courses.

5. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*NOTE: Unofficial documents must be uploaded for review purposes. Official transcripts are only required if you are offered admission. Following notification of admission, official transcripts mailed in sealed envelopes

directly from each university attended (or directly from WES) are required PRIOR to the first day of classes of the original semester of acceptance. Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer. Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will complete a professional development requirement that consists of four modules: networking, career services, interprofessional education, and cultural competence.

Program of Study

	Credit Hours
Public Health Core Courses	18
PUBH 5520G Introduction to Public Health	
PUBH 6532 Environmental Health	
PUBH 6533 Epidemiology	
PUBH 6534 Health Policy and Management	
PUBH 6535 Social and Behavioral Sciences and Public Health	
PUBH 6541 Biostatistics	
Epidemiology Courses	21
BIOS 6331 Regression Analysis in Biostatistics	
EPID 7131 Epidemiology of Chronic Disease	
EPID 7133 Epidemiologic Research Methods I	
EPID 7134 Epidemiologic Research Methods II	
EPID 7135 Epidemiology of Infectious Disease	
EPID 7233 Principles of Public Health Surveillance	
Guided Electives	
Practicum and Culminating Experience	6
PUBH 7530 Integrated Capstone Experience	
PUBH 7790 Practicum in Public Health	
Total Credit Hours	45

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Department of Health Policy and Community Health

Health Policy & Management

Do you want to learn the theory and practical skills you need for advanced health leadership and management? In the Department of Health Policy and Community Health, you will have the opportunity to learn dynamic leadership of people, policy initiatives and improvements to health status of communities, wise management of resources and systems of health and healthcare.

The department offers two relevant degrees: a Dr.P.H. and an M.P.H. With the Dr.P.H., concentrations are offered in Public Health Leadership and Health Policy & Management. With the M.P.H., a concentration is offered in Health Policy & Management.

Community Health Education & Behavior

Do you want to learn the skills needed to help educate and improve the public's health? Our programs are designed to prepare you for community-based public health interventions. You will learn to solve problems in the field of public health and prepare for a variety of leadership positions, especially those in community health programs.

The department offers two relevant degrees in community health to match your current level of education and experience – a Dr.P.H. in Community Health Behavior & Education and an M.P.H. in Community Health.

Programs

Master's

- Public Health M.P.H. (Concentration in Applied Public Health) (Online) (p. 209)
- Public Health M.P.H. (Concentration in Community Health) (p. 215)
- Public Health M.P.H. (Concentration in Health Policy and Management) (p. 217)

Doctoral

- Public Health Dr.P.H. (Concentration in Community Health Behavior and Education) (p. 210)
- Public Health Dr.P.H. (Concentration in Health Policy and Management) (p. 212)
- Public Health Dr.P.H. (Concentration in Public Health Leadership) (Online) (p. 214)

Health Services Administration Emphasis

Degree Requirements: 12 Credit Hours

This emphasis is designed to develop the knowledge and skills needed to assume entry level management positions in the health care industry. While this program is designed for MBA students, interested graduate students from other areas can elect to take this emphasis.

Program of Study

	Credit Hours
Required Courses:	12
HSPM 7131 Health Organization Theory, Behavior and Management	
HSPM 7133 Public Health Policy and Ethics	
HSPM 7137 Health Care Financing and Payment Systems	
PUBH 6534 Health Policy and Management	
Total Credit Hours	12

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Public Health M.P.H. (Concentration in Applied Public Health) (Online)

Degree Requirements: 45 Credit Hours

Degree Admission Requirements

Regular

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS).
2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (NOTE: SOPHAS will NOT process your application without receiving all official transcripts. Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.)
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report
4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:
 - Upper division undergraduate courses; OR
 - Upper division graduate courses
5. English Language Proficiency - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.
 - A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Official IELTS scores should be sent to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.
6. Letters of Recommendation - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address

your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

7. Curriculum Vitae/Resume - A CV/Resume that includes the following:
a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.

8. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment.

Provisional

Admission may be granted to those individuals who do not fully satisfy the admission requirements. You must earn grades of "B" or better in your first nine (9) semester hours taken at Georgia Southern University following the effective admission term to obtain Regular Admission. A provisional student may enroll in graduate courses leading to a degree and such courses may count in a degree program once the student has changed to Regular Admission. Only credit earned in graduate courses at Georgia Southern University will satisfy provisional admission requirements. Failure to satisfy these requirements will result in an ineligibility to continue studies in the College of Graduate Studies. Provisional students are not eligible for Graduate Assistantship positions.

For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.

Non-Degree Admission Requirements

An applicant may be admitted as a Non-Degree (Master's) student to earn credit hours in MASTER'S-LEVEL Public Health courses without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.
2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.*
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.*
 - Upload transcript(s) from all institutions attended. (Do NOT send transcripts to SOPHAS Express
4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:
 - Upper division undergraduate courses; OR
 - Upper division graduate courses.
5. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*NOTE: Unofficial documents must be uploaded for review purposes. Official transcripts are only required if you are offered admission. Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required PRIOR to the first day of classes of the original semester of acceptance. Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer. Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will complete a professional development requirement that consists of four modules: networking, career services, interprofessional education, and cultural competence.

	Credit Hours
Public Health Core Courses	18
PUBH 5520G Introduction to Public Health	
PUBH 6532 Environmental Health	
PUBH 6533 Epidemiology	
PUBH 6534 Health Policy and Management	
PUBH 6535 Social and Behavioral Sciences and Public Health	
PUBH 6541 Biostatistics	
Generalist Concentration Courses	21
APPH 7131 Applied Planning and Evaluation Methods for Public Health Promotion	
APPH 7132 Public Health Preparedness	
APPH 7134 Social Marketing for Health Communication	
APPH 7135 Cultural Competency for Public Health	
HSPM 7230 Health Leadership and Strategic Planning	
HSPM 7236 Health Informatics	
HSPM 7431 Public Health Practice Trends	
Practicum and Culminating Experience	6
APPH 7530 Capstone in PH Leadership	
PUBH 7790 Practicum in Public Health	
Total Credit Hours	45

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Public Health Dr.P.H. (Concentration in Community Health Behavior and Education)

Degree Admission Requirements: 60 Credit Hours

Regular Admission ¹

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS).

2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution. Applicants who do not have a graduate degree in Public Health will be required to complete prerequisite Public Health coursework.

3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (**NOTE:** SOPHAS will **NOT** process your application without receiving all official transcripts. *Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.*)

· All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.

· Transcript(s) should show completion of at least one (1) graduate-level core course in each of the following five (5) areas: biostatistics, epidemiology, social and behavioral sciences in public health, health policy and management, and environmental health. (Applicant may be asked to provide syllabi for courses taken.)

· Courses must have been completed in the last five (5) years and each must have been passed with a grade of "B" or better. Applicants who have not completed these courses, but whose applications show exceptional potential for success in the Dr.P.H. program, may be admitted to the Dr.P.H. program, but will be required to complete the courses (as presented in the JPHCOPH M.P.H. core course requirements) with grades of "B" or better before progressing to the Public Health Core and Concentration Courses of the Dr.P.H. program. If the applicant has completed a Master's degree in a field other than public health, professional public health work experience in one or more of the five core areas may be substituted for the corresponding M.P.H. level courses at the discretion of the College. Applicants who took these courses more than five years ago but who work in the Public Health field may request a waiver. Requests for this waiver must be submitted in writing to jphcoph-admissions@georgiasouthern.edu.

4. **Grade Point Average (GPA)** - Preferred minimum cumulative GPA of 3.0/4.0 scale in upper division graduate courses. Competitive candidates will have a graduate GPA of 3.5 or higher.

5. **Graduate Record Examination (GRE)** - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560. Competitive applicants will have a total score of 300 or higher on the combination of verbal and quantitative sections and an analytic writing score at the 50th percentile or higher. The requirement for completion of a standardized test will be waived for those applicants who hold a terminal degree from a regionally accredited college or university.

6. **English Language Proficiency** - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international

applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.

- A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Go to <http://www.ets.org/toefl> and request your TOEFL scores be sent to us using code #5253.

7. **Letters of Recommendation** - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

8. **Curriculum Vitae/Resume** - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.

9. **Statement of Purpose** - A Statement of Purpose (700-1,000 words) that conveys the applicant's reasons for pursuing a Dr.P.H. in Public Health and how admission into the program relates to the applicant's professional aspirations.

10. Applicants demonstrating potential for success in the Dr.P.H. program may be required to participate in an in-person or telephone interview prior to a final decision by the admissions committee.

¹ *Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment. For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.*

Non-degree Admission Requirements

An applicant may be admitted as a Non-Degree (Doctorate) student to earn credit hours in **DOCTORAL-LEVEL Public Health courses** without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.

2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution.

3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.¹

- All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required

for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.¹

- Upload transcript(s) from all institutions attended. (*Do NOT send transcripts to SOPHAS Express*)¹

4. **Grade Point Average (GPA)** - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR

- Upper division graduate courses

5. **Statement of Purpose** - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

¹ **NOTE:** Unofficial documents must be uploaded for review purposes. **Official transcripts are only required if you are offered admission.** Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required **PRIOR** to the first day of classes of the original semester of acceptance. **Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer.**

Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will work with the Center for Teaching Excellence (CTE) and the Office of the Provost to successfully complete training and teach at least one course (this does not apply to students that are hired as a teaching assistant).

Program of Study

	Credit Hours
Public Health Core Courses	12
PUBH 7132 Scientific Basis of Public Health	
PUBH 7140 Applied Statistical Methods in Public Health	
PUBH 9132 Public Health Perspectives in Community-Based and Translational Research	
PUBH 9134 Professionalism and Ethics in Public Health Practice	
Required Concentration Specific Courses	24
CHBE 9130 Research Methods in Community and Behavioral Health	
CHBE 9230 Community-Based Public Health Program Planning and Evaluation	
CHBE 9235 Communication and Advocacy	
CHBE 9331 Health Disparities and the Rural Underserved	
CHBE 9335 Global Health and Preparedness	
CHBE 9630 Doctoral Seminar in Community Health	
PUBH 8136 Theoretical Perspectives of the Social and Behavioral Sciences in Public Health	
PUBH 9630 Public Health Doctoral Seminar	
Electives	12
Select 12 hours of Advisor Approved Electives	

HSPM 6136	Health Services, Management, Human Resources and Governance	
HSPM 7133	Public Health Policy and Ethics	
HSPM 7135	Public Health Policy Development and Evaluation	
HSPM 7137	Health Care Financing and Payment Systems	
HSPM 7332	Population Health	
PHLD 9231	Health Informatics and Decision Making	
PUBH 8132	Environmental and Occupational Health	
PUBH 8133	Advanced Epidemiology	
PUBH 8134	Health Economics, Policy and the Political Process	
PUBH 9135	Public Health, Funding and Grantsmanship	
PHLD 9331	Health Policy, Regulation and Ethics	
PUBH 9130	Sampling Methodology	
Doctoral Public Health Field Practicum		3
PUBH 9790	Doctoral Preceptorship in Public Health	
Note: 300 hours of field experience under the joint direction of a public health faculty member and a qualified specialist working in the area of concentration.		
Dissertation		9-18
PUBH 9999	Dissertation	
Total Credit Hours		60-69

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Public Health Dr.P.H. (Concentration in Health Policy and Management)

Degree Admission Requirements: 60 Credit Hours

Regular Admission ¹

- Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS).
- Degree** - Completion of a Master's or terminal degree from a regionally accredited institution. Applicants who do not have a graduate degree in Public Health will be required to complete prerequisite Public Health coursework.
- Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (**NOTE:** SOPHAS will **NOT** process your application without receiving all official

transcripts. *Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.*)

- All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.

- Transcript(s) should show completion of at least one (1) graduate-level core course in each of the following five (5) areas: biostatistics, epidemiology, social and behavioral sciences in public health, health policy and management, and environmental health. (Applicant may be asked to provide syllabi for courses taken.)

- Courses must have been completed in the last five (5) years and each must have been passed with a grade of "B" or better. Applicants who have not completed these courses, but whose applications show exceptional potential for success in the Dr.P.H. program, may be admitted to the Dr.P.H. program, but will be required to complete the courses (as presented in the JPHCOPH M.P.H. core course requirements) with grades of "B" or better before progressing to the Public Health Core and Concentration Courses of the Dr.P.H. program. If the applicant has completed a Master's degree in a field other than public health, professional public health work experience in one or more of the five core areas may be substituted for the corresponding M.P.H. level courses at the discretion of the College. Applicants who took these courses more than five years ago but who work in the Public Health field may request a waiver. Requests for this waiver must be submitted in writing to jphcoph-admissions@georgiasouthern.edu.

4. **Grade Point Average (GPA)** - Preferred minimum cumulative GPA of 3.0/4.0 scale in upper division graduate courses. Competitive candidates will have a graduate GPA of 3.5 or higher.

5. **Graduate Record Examination (GRE)** - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560. Competitive applicants will have a total score of 300 or higher on the combination of verbal and quantitative sections and an analytic writing score at the 50th percentile or higher. The requirement for completion of a standardized test will be waived for those applicants who hold a terminal degree from a regionally accredited college or university.

6. **English Language Proficiency** - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.

- A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Official IELTS scores should be sent to:
Georgia Southern University
Office of Graduate Admissions

P.O. Box 8113
Statesboro, GA 30460-8113.

7. **Letters of Recommendation** - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

8. **Curriculum Vitae/Resume** - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.

9. **Statement of Purpose** - A Statement of Purpose (700-1,000 words) that conveys the applicant's reasons for pursuing a Dr.P.H. in Public Health and how admission into the program relates to the applicant's professional aspirations.

10. Applicants demonstrating potential for success in the Dr.P.H. program may be required to participate in an in-person or telephone interview prior to a final decision by the admissions committee.

¹ *Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment. For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.*

Non-degree Admission Requirements

An applicant may be admitted as a Non-Degree (Doctorate) student to earn credit hours in **DOCTORAL-LEVEL Public Health courses** without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.

2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution.

3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.¹

· All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.¹

· Upload transcript(s) from all institutions attended. (*Do NOT send transcripts to SOPHAS Express*)¹

4. **Grade Point Average (GPA)** - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR
- Upper division graduate courses

5. **Statement of Purpose** - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

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Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will work with the Center for Teaching Excellence (CTE) and the Office of the Provost to successfully complete training and teach at least one course (this does not apply to students that are hired as a teaching assistant).

Program of Study

	Credit Hours
Public Health Core Courses	12
PUBH 7132 Scientific Basis of Public Health	
PUBH 7140 Applied Statistical Methods in Public Health	
PUBH 9132 Public Health Perspectives in Community-Based and Translational Research	
PUBH 9134 Professionalism and Ethics in Public Health Practice	
Required Concentration Specific Courses	30
CHBE 9235 Communication and Advocacy	
HSPM 7235 Healthcare Law and Ethics	
HSPM 7432 Theoretical Underpinnings of Health Policy	
HSPM 7433 US Health Systems	
HSPM 7434 Qualitative Research and Evaluation Methods	
HSPM 8233 Quantitative Research and Evaluation Methods	
HSPM 9431 Health Policy Analysis	
HSPM 9433 Rural & Underserved Populations, Systems, and Policy	
PHLD 9231 Health Informatics and Decision Making	
PUBH 9630 Public Health Doctoral Seminar	
Electives	6
Select 6 hours of approved management-focused electives	
Doctoral Public Health Field Practicum	3
PUBH 9790 Doctoral Preceptorship in Public Health	
Note: 300 Hours of field experience under the joint direction of a public health faculty member and a qualified specialist working in the area of concentration.	
Dissertation	9-18
PUBH 9999 Dissertation	
Total Credit Hours	60-69

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more

information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Public Health Dr.P.H. (Concentration in Public Health Leadership) (Online)

Degree Admission Requirements: 60 Credit Hours

Regular Admission ¹

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS).

2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution. Applicants who do not have a graduate degree in Public Health will be required to complete prerequisite Public Health coursework.

3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (**NOTE:** SOPHAS will **NOT** process your application without receiving all official transcripts. *Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.*)

· All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.

· Transcript(s) should show completion of at least one (1) graduate-level core course in each of the following five (5) areas: biostatistics, epidemiology, social and behavioral sciences in public health, health policy and management, and environmental health. (Applicant may be asked to provide syllabi for courses taken.)

· Courses must have been completed in the last five (5) years and each must have been passed with a grade of "B" or better. Applicants who have not completed these courses, but whose applications show exceptional potential for success in the Dr.P.H. program, may be admitted to the Dr.P.H. program, but will be required to complete the courses (as presented in the JPHCOPH M.P.H. core course requirements) with grades of "B" or better before progressing to the Public Health Core and Concentration Courses of the Dr.P.H. program. If the applicant has completed a Master's degree in a field other than public health, professional public health work experience in one or more of the five core areas may be substituted for the corresponding M.P.H. level courses at the discretion of the College. Applicants who took these courses more than five years ago but who work in the Public Health field may request a waiver. Requests for this waiver must be submitted in writing to jphcoph-admissions@georgiasouthern.edu.

4. **Grade Point Average (GPA)** - Preferred minimum cumulative GPA of 3.0/4.0 scale in upper division graduate courses. Competitive candidates will have a graduate GPA of 3.5 or higher.

5. **Graduate Record Examination (GRE)** - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560. Competitive applicants will have a total score of

300 or higher on the combination of verbal and quantitative sections and an analytic writing score at the 50th percentile or higher. The requirement for completion of a standardized test will be waived for those applicants who hold a terminal degree from a regionally accredited college or university. _

6. **English Language Proficiency** - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl> (<http://www.ets.org/toefl/>)) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) (<http://www.ielts.org/>)) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.

· A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Go to <http://www.ets.org/toefl> and request your TOEFL scores be sent to us using code #5253.

7. **Letters of Recommendation** - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.

8. **Curriculum Vitae/Resume** - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs. A minimum of 3 years of relevant full-time experience in public health, healthcare, or a closely related area are required: highly competitive applicants will have 5 or more years of full time relevant work experience.

9. **Statement of Purpose** - A Statement of Purpose (700-1,000 words) that conveys the applicant's reasons for pursuing a Dr.P.H. in Public Health and how admission into the program relates to the applicant's professional aspirations.

10. Applicants demonstrating potential for success in the Dr.P.H. program may be required to participate in an in-person or telephone interview prior to a final decision by the admissions committee.

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Non-degree Admission Requirements

An applicant may be admitted as a Non-Degree (Doctorate) student to earn credit hours in **DOCTORAL-LEVEL Public Health courses** without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.

2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution.

3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.¹

· All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.¹

· Upload transcript(s) from all institutions attended. (*Do NOT send transcripts to SOPHAS Express*)¹

4. **Grade Point Average (GPA)** - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR
- Upper division graduate courses

5. **Statement of Purpose** - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

¹ **NOTE:** Unofficial documents must be uploaded for review purposes. **Official transcripts are only required if you are offered admission.** Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required **PRIOR** to the first day of classes of the original semester of acceptance. **Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer.**

Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will work with the Center for Teaching Excellence (CTE) and the Office of the Provost to successfully complete training and teach at least one course (this does not apply to students that are hired as a teaching assistant).

Program of Study

	Credit Hours
Public Health Core Courses	12
PUBH 7132 Scientific Basis of Public Health	
PUBH 7140 Applied Statistical Methods in Public Health	
PUBH 9132 Public Health Perspectives in Community-Based and Translational Research	
PUBH 9134 Professionalism and Ethics in Public Health Practice	
Required Concentration Specific Courses	27
PHLD 9130 Public Health Research Methods	
PHLD 9131 Leadership Foundations and Strategies for Health Organizations	
PHLD 9133 Health Organization Communication	
PHLD 9231 Health Informatics and Decision Making	
PHLD 9331 Health Policy, Regulation and Ethics	

PHLD 9333	Health Organization Strategic and Contingency Planning	
PHLD 9334	Financial Management of Public Health Organizations and Programs	
PUBH 8134	Health Economics, Policy and the Political Process	
PUBH 9630	Public Health Doctoral Seminar	
Electives		9
Must take 9 hours of Advisor Approved Electives		
Doctoral Public Health Field Practicum		3
PUBH 9790	Doctoral Preceptorship in Public Health	
Note: 300 hours of field experience under the joint direction of a public health faculty member and a qualified specialist working in the area of concentration.		
Dissertation		9-18
PUBH 9999	Dissertation	
Total Credit Hours		60-69

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu (gradschool@georgiasouthern.edu)

Public Health M.P.H. (Concentration in Community Health)

Degree Requirements: 45 Credit Hours

Degree Admission Requirements

Regular

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS).

2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.

3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (NOTE: SOPHAS will NOT process your application without receiving all official transcripts. Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.)

· All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report

4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:

- Upper division undergraduate courses; OR

- Upper division graduate courses
5. Graduate Record Examination (GRE) - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560.
 6. English Language Proficiency - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.
 - A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Official IELTS scores should be sent to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.
 7. Letters of Recommendation - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.
 8. Curriculum Vitae/Resume - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.
 9. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment.

Provisional

Admission may be granted to those individuals who do not fully satisfy the admission requirements. You must earn grades of "B" or better in your first nine (9) semester hours taken at Georgia Southern University following the effective admission term to obtain Regular Admission. A provisional student may enroll in graduate courses leading to a degree and such courses may count in a degree program once the student has changed to Regular Admission. Only credit earned in graduate courses at Georgia Southern University will satisfy provisional admission requirements. Failure to satisfy these requirements will result in an ineligibility to continue studies in the College of Graduate Studies. Provisional students are not eligible for Graduate Assistantship positions.

For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.

Non-Degree Admission Requirements

An applicant may be admitted as a Non-Degree (Master's) student to earn credit hours in MASTER'S-LEVEL Public Health courses without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.
2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.*
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.*
 - Upload transcript(s) from all institutions attended. (Do NOT send transcripts to SOPHAS Express)
4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:
 - Upper division undergraduate courses; OR
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5. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

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Program Competency Requirement

Students will complete a professional development requirement that consists of four modules: networking, career services, interprofessional education, and cultural competence.

Degree Requirements:

	Credit Hours
Public Health Core Courses	18
PUBH 5520G Introduction to Public Health	
PUBH 6532 Environmental Health	
PUBH 6533 Epidemiology	
PUBH 6534 Health Policy and Management	
PUBH 6535 Social and Behavioral Sciences and Public Health	
PUBH 6541 Biostatistics	
Community Health Courses	21
COHE 6130 Research Methods in Community Health	
COHE 7232 Health Promotion Planning	

COHE 7233	Ecologically Focused Program Evaluation	
COHE 7234	Community Health Analysis	
COHE 7237	Rural Community Health Issues	
COHE 7238	Communication for Change	
Guided Electives		
Practicum and Culminating Experience		6
PUBH 7530	Integrated Capstone Experience	
PUBH 7790	Practicum in Public Health	
Total Credit Hours		45

Advisement

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Public Health M.P.H. (Concentration in Health Policy and Management)

Degree Requirements: 45 Credit Hours

Degree Admission Requirements

Regular Admission

1. Application - Completion of an application in Schools of Public Health Application Service (SOPHAS).
2. Degree - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (NOTE: SOPHAS will NOT process your application without receiving all official transcripts. Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.)
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Provisional Admission

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3. Transcripts - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.*

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4. Grade Point Average (GPA) - Minimum cumulative GPA of 2.75/4.0 scale in either:

· Upper division undergraduate courses; OR

· Upper division graduate courses.

5. Statement of Purpose - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*NOTE: Unofficial documents must be uploaded for review purposes. Official transcripts are only required if you are offered admission. Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required PRIOR to the first day of classes of the original semester of acceptance. Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer. Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Program Competency Requirement

Students will complete a professional development requirement that consists of four modules: networking, career services, interprofessional education, and cultural competence.

Program of Study

	Credit Hours
Public Health Core Courses	18
PUBH 5520G Introduction to Public Health	
PUBH 6532 Environmental Health	
PUBH 6533 Epidemiology	
PUBH 6534 Health Policy and Management	
PUBH 6535 Social and Behavioral Sciences and Public Health	
PUBH 6541 Biostatistics	
Health Policy and Management Courses	21
HSPM 7133 Public Health Policy and Ethics	
HSPM 7135 Public Health Policy Development and Evaluation	
HSPM 7230 Health Leadership and Strategic Planning	
HSPM 7232 Public Health Finance	
HSPM 7235 Healthcare Law and Ethics	
HSPM 7236 Health Informatics	
Guided Electives	
Practicum and Culminating Experience	6
PUBH 7530 Integrated Capstone Experience	

PUBH 7790 Practicum in Public Health

Total Credit Hours

45

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Doctor of Public Health

The Doctor of Public Health (Dr.P.H.) program at Georgia Southern University is committed to producing public health practitioners who possess the knowledge, skills, and values necessary to contribute to an effective public health workforce. The Dr.P.H. prepares professionals for broad-based practice in public health, through the integration of a community-based practice core and advanced courses in four concentration areas: Biostatistics, Community Health Behavior and Education, Epidemiology, and Public Health Leadership. The program serves both the full-time student preparing for a career in public health, as well as currently employed public health professionals seeking an advanced education to augment their existing skills and backgrounds.

Purpose

The Dr.P.H. is the terminal professional degree for those who intend to pursue or advance their professional practice career in public health. The Dr.P.H. program aims to train students for advanced science-based practice and practice-oriented research. Public health practice involves the strategic, organized and interdisciplinary application of knowledge, skills and competencies necessary to perform essential public health services necessary to improve the population's health.

Those who earn this degree are expected to occupy leadership positions in public health and related areas. Additionally, individuals earning this degree will be positioned to exert significant influence on the development of policies and programs aimed at improving the health of populations in the region. It is anticipated that such positions will represent considerable diversity with respect to international, national, state or local levels; and in the public or private sector. In addition, those who earn the Dr.P.H. degree may also seek teaching and research positions at colleges and universities.

The Dr.P.H. is conferred in recognition of the candidate's command of a comprehensive body of knowledge in public health, their ability to initiate, organize and pursue the investigation of significant problems in public health, and their capacity to formulate policies, strategies, and/or programs on the basis of the knowledge generated. The Dr.P.H. leads to a career in administration, teaching, or public health practice, where advanced analytical and conceptual capabilities are required.

The Dr.P.H. program expands the competencies included in the Jiann-Ping Hsu College of Public Health Master of Public Health (M.P.H.) program for all matriculating students, with increased emphasis on advanced skills in evidenced-based problem-solving. Students who have not completed one or more of the M.P.H. core public health courses must complete these courses as part of their doctoral program. In addition, those students are required to complete a minimum of 60 credits for the doctoral degree. Students with a master's degree other than in public

health may be required to take health or health-related courses in addition to the 60 minimum credits.

The Dr.P.H. program offers students the opportunity to specialize their training in five program concentration areas (Specific concentration competencies for each area are provided in the following sections.):

- Biostatistics
- Community Health Behavior and Education
- Epidemiology
- Health Policy and Management
- Public Health Leadership (Partially Online)

CEPH Dr.P.H. Competencies

At the completion of the Dr.P.H. program all students will be able to:

Data & Analysis

1. Explain qualitative, quantitative, mixed methods and policy analysis research and evaluation methods to address health issues at multiple (individual, group, organization, community and population) levels
2. Design a qualitative, quantitative, mixed methods, policy analysis or evaluation project to address a public health issue
3. Explain the use and limitations of surveillance systems and national surveys in assessing, monitoring and evaluating policies and programs and to address a population's health

Leadership, Management & Governance

4. Propose strategies for health improvement and elimination of health inequities by organizing stakeholders, including researchers, practitioners, community leaders and other partners
5. Communicate public health science to diverse stakeholders, including individuals at all levels of health literacy, for purposes of influencing behavior and policies
6. Integrate knowledge, approaches, methods, values and potential contributions from multiple professions and systems in addressing public health problems
7. Create a strategic plan
8. Facilitate shared decision making through negotiation and consensus-building methods
9. Create organizational change strategies
10. Propose strategies to promote inclusion and equity within public health programs, policies and systems
11. Assess one's own strengths and weaknesses in leadership capacities including cultural proficiency
12. Propose human, fiscal and other resources to achieve a strategic goal
13. Cultivate new resources and revenue streams to achieve a strategic goal

Policy & Programs

14. Design a system-level intervention to address a public health issue
15. Integrate knowledge of cultural values and practices in the design of public health policies and programs

16. Integrate scientific information, legal and regulatory approaches, ethical frameworks and varied stakeholder interests in policy development and analysis

17. Propose interprofessional team approaches to improving public health

Education & Workforce Development

18. Assess an audience's knowledge and learning needs
19. Deliver training or educational experiences that promote learning in academic, organizational or community settings
20. Use best practice modalities in pedagogical practices

Dr.P.H. Concentration Competencies

Competencies for each concentration are outline below:

Biostatistics

1. Interpret analytic methods used in the public health and biomedical journals, as well as critique published reports of public health and biomedical experiments as to the validity of the inferential conclusions.
2. Demonstrate proficiency in statistical software such as SAS or R to handle complex public health and biomedical data analysis problems.
3. Develop new biostatistical methods and new ideas for applying existing biostatistical methods to applications in public health and the biomedical sciences.
4. Demonstrate the ability to flexibly apply prior information to solve a wide range of public health biomedical problems using Bayesian Analysis.
5. Demonstrate the comprehension of the underlying statistical theory that supports the biostatistical methodology.

Community Health

1. Analyze theories, concepts and models from a range of social and behavioral disciplines in public health research and practice.
2. Develop collaborative partnerships with communities stakeholders, policy makers, and other relevant groups.
3. Assess and argue cultural, environmental, and social justice influences on the health of communities.
4. Adapt evidence-based public health programs and research to address geographic disparities.
5. Facilitate debate and discussion, with diverse groups in and outside of the traditional classroom setting that ensure inclusion of ideas and resolution of challenges.

Epidemiology

1. Demonstrate the ability to identify deficiencies in scientific knowledge or public health practice using existing sources of epidemiologic data.
2. Construct a public health and epidemiologic research question from ideas, conditions, or events using critical thinking skills.
3. Utilize advanced epidemiologic research methods to inform public health action.
4. Select appropriate statistical tools and methodology to analyze and summarize epidemiological data.
5. Disseminate information based on advanced epidemiologic studies to lay or professional audiences.

Public Health Leadership

1. Apply leadership skills for building partnerships in public health.
2. Evaluate how systems thinking can contribute to solving public health organizational issues and problems.
3. Analyze the policy development, assessment, evaluation process, and legal environment for improving the health status of populations.
4. Evaluate the process for strategic planning and marketing for public health through analysis of quality, cost benefit, and performance improvement concepts.
5. Demonstrate the ability to manage of programs within budget constraints through resource allocation, financing, and evaluation.

Health Policy and Management

1. Analyze the impact of legislation, judicial opinions, regulations, and policies on population health.
2. Interpret quantitative and qualitative data following current scientific standards.
3. Implement strategic planning processes.
4. Differentiate among the administrative, legal, ethical, and quality assurance dimensions of research and practice.
5. Develop collaborative partnerships with communities, policy makers, and other relevant groups.

Program Competency Requirement

Students will work with the Center for Teaching Excellence (CTE) and the Office of the Provost to successfully complete training and teach at least one course (this does not apply to students that are hired as a teaching assistant).

The Curriculum

The Dr.P.H. program requires a minimum of 60 credits and is offered on both a full- and part-time basis. The overall curriculum model includes:

	Credit Hours
Public Health Core	9
Required Concentration Specific Courses	24-27
Electives	12-15
Doctoral Public Health Field Practicum	3
Dissertation	9-18
Total Credit Hours	60-69

The Dr.P.H. Public Health Sciences Core provides a grounding in the scientific basis of public health, public health professionalism and ethics, and translational research. Advanced specialty coursework develops the skills and knowledge upon which to build or enhance a career in public health. Selective courses are available in four core areas of concentration: Biostatistics, Community Health Behavior and Education, Epidemiology, and Public Health Leadership.

The Preceptorship

The Preceptorship is an important practical experience in a public health related setting. Dr.P.H. students will complete a 300 hour preceptorship under the joint direction of a qualified public health professional and a public health faculty member.

The Candidacy Examination

All Dr.P.H. students are required to complete and pass a concentration-specific candidacy examination. Students failing the concentration exam are allowed only one retake. In the event any Dr.P.H. student fails the concentration retake exam, the student will be immediately excluded from the program and all registered courses for the upcoming semester will be administratively canceled. Students that need to retake the exam should do so within three semesters, including summer, after completing their coursework. If the student does not pass the retake within this time, they must apply for readmission into the program based on College of Graduate Studies inactive status policy (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/inactive-status/>).

The Dissertation

All doctoral candidates are required to prepare, complete and successfully defend a dissertation.

Admission Requirements

Admission into the graduate programs within the Jiann-Ping Hsu College of Public Health is competitive and decisions are based on the application as a whole. The Doctor of Public Health (Dr.P.H.) admission requirements apply to the following Dr.P.H. degrees in the Jiann-Ping Hsu College of Public Health at Georgia Southern University:

- Public Health Dr.P.H. (Concentration in Biostatistics)
- Public Health Dr.P.H. (Concentration in Community Health Behavior and Education)
- Public Health Dr.P.H. (Concentration in Epidemiology)
- Public Health Dr.P.H. (Concentration in Health Pol)
- Public Health Dr.P.H. (Concentration in Public Health Leadership)

Degree Admission Requirements

Regular Admission ¹

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS).
2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution. Applicants who do not have a graduate degree in Public Health will be required to complete prerequisite Public Health coursework.
3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (**NOTE:** SOPHAS will **NOT** process your application without receiving all official transcripts. *Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.*)
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.
 - Transcript(s) should show completion of at least one (1) graduate-level core course in each of the following five (5) areas: biostatistics, epidemiology, social and behavioral sciences in public health, health policy and management, and environmental health. (Applicant may be asked to provide syllabi for courses taken.)
 - Courses must have been completed in the last five (5) years and each must have been passed with a grade of "B" or better. Applicants who have not completed these courses, but whose applications show exceptional potential for success in the Dr.P.H. program, may be admitted to the Dr.P.H. program, but will be

required to complete the courses (as presented in the JPHCOPH M.P.H. core course requirements) with grades of "B" or better before progressing to the Public Health Core and Concentration Courses of the Dr.P.H. program. If the applicant has completed a Master's degree in a field other than public health, professional public health work experience in one or more of the five core areas may be substituted for the corresponding M.P.H. level courses at the discretion of the College. Applicants who took these courses more than five years ago but who work in the Public Health field may request a waiver. Requests for this waiver must be submitted in writing to jphcoph-admissions@georgiasouthern.edu.

4. **Grade Point Average (GPA)** - Preferred minimum cumulative GPA of 3.0/4.0 scale in upper division graduate courses.
5. **Graduate Record Examination (GRE)** - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560. The requirement for completion of a standardized test will be waived for those applicants who hold a terminal degree from a regionally accredited college or university.
6. **English Language Proficiency** - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.
 - A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Go to <http://www.ets.org/toefl> and request your TOEFL scores be sent to us using code #5253.
7. **Letters of Recommendation** - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.
8. **Curriculum Vitae/Resume** - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs. For the Public Health Leadership concentration, a minimum of 3 years of experience in public health, healthcare, or a closely related area are required. Work experience is not required for applicants to the Biostatistics, Community Health Behavior and Education, Epidemiology, or Health Policy and Management concentrations.
9. **Statement of Purpose** - A Statement of Purpose (700-1,000 words) that conveys the applicant's reasons for pursuing a Dr.P.H. in Public Health and how admission into the program relates to the applicant's professional aspirations.
10. **Interview** - Applicants demonstrating potential for success in the Dr.P.H. program are required to participate in an in-person or telephone interview prior to a final decision by the admissions committee.

- ¹ *Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment. For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.*

Non-degree Admission Requirements

An applicant may be admitted as a Non-Degree (Doctorate) student to earn credit hours in **DOCTORAL-LEVEL Public Health courses** without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.
2. **Degree** - Completion of a Master's or terminal degree from a regionally accredited institution.
3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.¹
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.¹
 - Upload transcript(s) from all institutions attended. (*Do NOT send transcripts to SOPHAS Express*)¹
4. **Grade Point Average (GPA)** - Minimum cumulative GPA of 2.75/4.0 scale in either:
 - Upper division undergraduate courses; OR
 - Upper division graduate courses
5. **Statement of Purpose** - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

- ¹ **NOTE:** Unofficial documents must be uploaded for review purposes. **Official transcripts are only required if you are offered admission.** Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required **PRIOR** to the first day of classes of the original semester of acceptance. **Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer.**

Official documents must be mailed to:
 Georgia Southern University
 Office of Graduate Admissions
 P.O. Box 8113
 Statesboro, GA 30460-8113

Grades

Dr.P.H. level degree seeking students are required to maintain a cumulative GPA of at least 3.0 to remain in good academic standing and to be eligible to graduate. In the event the cumulative GPA falls below 3.0, the student will be placed on academic probation. Students have nine (9) credits to elevate the cumulative GPA to at least 3.0 or will be excluded from the program. Also, students earning grades of "D" or below will be excluded from the program.

Transfer Credit Hours

Students may request that up to, but no more than, nine (9) graduate credits be applied toward the 60 credits required for the Dr.P.H. Transfer credit must also satisfy the same requirements as courses taught for doctoral training within the Jiann-Ping Hsu College of Public Health (e.g., minimum grade of "B"), be consistent with the student's approved program

of study, and have been received from a regionally accredited college or university. Thesis and dissertation credit cannot be transferred. The student must provide documentation in support of equivalence, such as a course syllabus, transcript, term paper, and/or instructor testimony. Equivalence is determined by the JPHCOPH faculty responsible for teaching the specific class. Credit reductions do not influence the residency and enrollment requirements or comprehensive examination procedures.

Course Time Limit

All requirements for the Dr.P.H. must be completed within seven academic years from the date of the first enrollment for study following admission to the doctoral program. For transfer students, the seven-year time limit commences with the semester during which transfer credit was earned.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Master of Public Health

The Master of Public Health (M.P.H.) educational degree program at the Jiann-Ping Hsu College of Public Health at Georgia Southern University prepares professionals for broad-based practice in public health, through the integration of core competencies in the five areas of knowledge basic to public health (biostatistics, environmental health, epidemiology, health policy and community health) with specialized knowledge and expertise in one of these areas. The program serves both the full-time student preparing for a career in public health, as well as currently employed health professionals seeking an advanced education to augment their existing skills and background.

Purpose

The purpose of the M.P.H. is to prepare graduate level public health practitioners capable of applying practice-based skills to promote the concepts of the field.

A comprehensive public health education program should provide skills enabling students to assess the magnitude and potential impact of the multiple problems facing populations, as well as recognize existing community capacities or resources. In conjunction with assessment skills, students enrolled in a public health program should understand the role of community empowerment, community mobilization, networks, and partnerships in the development of comprehensive public health policies designed to impact the priority areas identified in the assessment phase. Lastly, student skill sets in a public health program should focus on the task of assuring a presence of services and infrastructure necessary to address problems identified in the assessment phase, as well as enforce policies developed in response to the assessment. Specific skill sets related to the core functions of public health practice are as follows:

- Monitor health status to identify community health problems;
- Diagnose and investigate health problems and health hazards in the community;
- Inform, educate, and empower people about health issues;
- Mobilize community partnerships to identify and solve health problems;

- Develop policies and plans that support individual and community health efforts;
- Recognize the importance of the enforcement of laws and regulations necessary to protect health and ensure safety;
- Link people to needed personal health services and assure the provision of health care when otherwise unavailable;
- Evaluate effectiveness, accessibility, and quality of personal and population-based health services; and
- Research for new insights and innovative solutions to health problems.

The M.P.H. program is committed to producing public health practitioners that possess the knowledge, skills, and values necessary to produce an effective public health workforce.

CEPH M.P.H. Competencies

At the completion of the M.P.H. degree program all students will be able to:

Evidence-based Approaches to Public Health

1. Apply epidemiological methods to the breadth of settings and situations in public health practice
2. Select quantitative and qualitative data collection methods appropriate for a given public health context
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
4. Interpret results of data analysis for public health research, policy or practice

Public Health & Health Care Systems

5. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
6. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels

Planning & Management to Promote Health

7. Assess population needs, assets and capacities that affect communities' health
8. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
9. Design a population-based policy, program, project or intervention
10. Explain basic principles and tools of budget and resource management
11. Select methods to evaluate public health programs

Policy in Public Health

12. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
13. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
14. Advocate for political, social or economic policies and programs that will improve health in diverse populations
15. Evaluate policies for their impact on public health and health equity

Leadership

16. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making

17. Apply negotiation and mediation skills to address organizational or community challenges

Communication

18. Select communication strategies for different audiences and sectors

19. Communicate audience-appropriate public health content, both in writing and through oral presentation

20. Describe the importance of cultural competence in communicating public health content

Interprofessional Practice

21. Perform effectively on interprofessional teams

Systems Thinking

22. Apply systems thinking tools to a public health issue

Biostatistics Competencies

M.P.H. Concentration Competencies

Competencies for each concentration are outline below:

Biostatistics

1. Provide the biostatistical components of the design of a public health or biomedical experiment.

2. Demonstrate proficiency in SAS programming to solve biomedical problems.

3. Demonstrate comprehension of ethical issues in biomedical studies, such as treatment efficacy and patient safety.

4. Translate the biomedical experimental objectives into biostatistical questions via hypothesis testing or confidence interval framework.

5. Describe key concepts and theory underlying biostatistical methodology used in probability and inferential, analytical and descriptive statistics.

Environmental Health

1. Describe the direct and indirect environmental and occupational health hazards with respect to infectivity, toxicity, and physiological impacts on communities and the adverse effects on the ecosystem.

2. Explain exposure pathways, and transmission mechanisms by which environmental/occupational agents influence human and the ecosystem health.

3. Analyze environmental and occupational health risk assessment methods, directed towards prediction and management of these hazards to address community concerns, including environmental justice and equity, while adhering to pertinent regulatory guidelines.

4. Specify appropriate environmental monitoring and impact assessment methods and intervention strategies to support or advocate for environmental/occupational health policy development.

5. Develop age-appropriate educational material to relay public health risk information to lay audiences

Epidemiology

1. Identify, utilize, and interpret routinely collected epidemiologic data from a variety of settings.
2. Apply advanced data management and analysis methods to epidemiologic data using statistical software, as appropriate.
3. Draw valid inferences from epidemiologic data at an intermediate level to assess the burden of disease or exposure-disease associations.
4. Evaluate the strengths and limitations of epidemiologic reports.
5. Disseminate epidemiologic findings suitable for professional or scientific audiences using a format appropriate for a scientific journal.

Health Policy and Management

1. Evaluate a health policy and its implications for different populations, healthcare and public health systems.
2. Describe the legal and ethical dilemmas in public health systems.
3. Apply principles of healthcare financing, reimbursement methodologies, and budgeting to public or private health settings.
4. Explain the principles of informatics, data management, and using data to inform public health policy and programming.
5. Demonstrate applications of theoretical foundations of leadership principles and styles.

Social and Behavioral Sciences

1. Apply basic theories, concepts and models from a range of social and behavioral disciplines in public health research and practice.
2. Evaluate the contribution of logic models in program development, implementation, and evaluation.
3. Develop a culturally appropriate social marketing plan to address a social or behavioral issue in the target population.
4. Develop intervention recommendations based on community analysis of determinant sequencing and causal diagrams.
5. Evaluate a variety of participatory methods that can be used in community health analysis and assessment.

Applied Public Health

1. Demonstrate how data and information are used to improve individual, program, and/or organizational performance (e.g., selection and use of valid and reliable quantitative and qualitative data, data-driven decision making, data management, performance measurement).
2. Explain the importance of evaluations for improving programs, and services.
3. Target/Tailor messages for disseminating public health data and information (e.g., social media, newspapers, newsletters, journals, town hall meetings, libraries, neighborhood gatherings).
4. Recognize the role of cultural, social, and behavioral factors in the accessibility, availability, acceptability, and delivery of public health services.
5. Engages community members to improve health in a community (e.g., input in developing and implementing community health assessments and improvement plans, feedback about programs and services).
6. Participate with stakeholders in identifying key public health values and a shared public health vision as guiding principles for community action.

Program Competency Requirement

Students will complete a professional development requirement that consists of four modules: networking, career services, interprofessional education, and cultural competence.

The Curriculum

The M.P.H. is an applied professional/graduate degree designed for highly motivated students who have a substantial interest in public health. Unique sequencing of courses, community-based program activities, and field/laboratory research provide students with multiple opportunities to develop the public health competencies.

The M.P.H. program requires a minimum of 45 credits and is offered on both a full-and part-time basis. The overall curriculum model includes:

	Credit Hours
Public Health Core	18
Concentration	21
Electives	0-3
Practicum in Public Health	3
Integrated Capstone Experience	3
Total Credit Hours	45

The M.P.H. core course requirements provide a broad overview of the disciplines of public health and the basic principles of public health practice. Specialty coursework develops the skills and knowledge upon which to build or enhance a career in public health. Selective courses are available in each of the five core areas of concentration: Epidemiology, Environmental Health Sciences, Biostatistics, Health Services Administration, and Social and Behavioral Sciences/Community Health Education.

In addition, all students are required to take an introduction to public health. An important practical experience in a public health venue is a field practicum in a community, a public health facility, a government agency, or related setting. The culminating experience is a course that requires the student integrate their specialization with public health practice.

Admission Requirements

Admission into the graduate programs within the Jiann-Ping Hsu College of Public Health (JPHCOPH) is competitive and decisions are based on the application as a whole. The Master of Public Health (MPH) admission requirements apply to the following MPH degrees in the Jiann-Ping Hsu College of Public Health at Georgia Southern University:

- Public Health M.P.H. (Concentration in Biostatistics)
- Public Health M.P.H. (Concentration in Community Health)
- Public Health M.P.H. (Concentration in Environmental Health)
- Public Health M.P.H. (Concentration in Epidemiology)
- Public Health M.P.H. (Concentration in Health Policy and Management)
- Public Health M.P.H. (Concentration in Applied Public Health)

Degree Admission Requirements

Regular

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS).
2. **Degree** - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school. (NOTE: SOPHAS will NOT process your application without receiving all official transcripts. Please refer to the SOPHAS FAQs page for instructions on HOW TO SEND TRANSCRIPTS.)
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an

International Credential Advantage Package (ICAP) Course-by-Course Report

4. **Grade Point Average (GPA)** - Minimum cumulative GPA of 2.75/4.0 scale in either:
 - Upper division undergraduate courses; OR
 - Upper division graduate courses
5. **Graduate Record Examination (GRE)** - Official scores on the Graduate Record Examination (GRE), taken within the last five (5) years sent to school code 8560. The GRE has been waived for the MPH Environmental Health Sciences Concentration and the MPH Applied Public Health Concentration.
6. **English Language Proficiency** - International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.
 - A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission. The official TOEFL and the official IELTS scores may not be more than two (2) years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis. Request that your official TOEFL scores be sent directly to SOPHAS. Official IELTS scores should be sent to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.
7. **Letters of Recommendation** - Three (3) letters of recommendation. It is strongly advised that two letters be from individuals who can address your past academic performance and it is encouraged that the third letter is from a work or internship supervisor.
8. **Curriculum Vitae/Resume** - A CV/Resume that includes the following: a) educational experiences, b) professional goals and objectives, c) work history, d) professional experiences, memberships and/or participation in professional organizations, e) experiences in public health programs.
9. **Statement of Purpose** - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*Some students may be required to take prerequisite coursework prior to beginning the program of study. Conditions of admission will be presented at the student's first advisement appointment.

Provisional

Admission may be granted to those individuals who do not fully satisfy the admission requirements. You must earn grades of "B" or better in your first nine (9) semester hours taken at Georgia Southern University following the effective admission term to obtain Regular Admission. A provisional student may enroll in graduate courses leading to a degree and such courses may count in a degree program once the student has changed to Regular Admission. Only credit earned in graduate courses at Georgia Southern University will satisfy provisional admission requirements. Failure to satisfy these requirements will result in an ineligibility to continue studies

in the College of Graduate Studies. Provisional students are not eligible for Graduate Assistantship positions.

For more information on our programs, visit our website at <http://jphcoph.georgiasouthern.edu/degrees/>.

Non-Degree Admission Requirements

An applicant may be admitted as a Non-Degree (Master's) student to earn credit hours in MASTER'S-LEVEL Public Health courses without working towards a degree or certificate program. Applying to a graduate degree or certificate program is a separate process and different criteria must be met.

1. **Application** - Completion of an application in Schools of Public Health Application Service (SOPHAS) Express.
2. **Degree** - Completion of a Bachelor's degree or higher from a regionally accredited institution.
3. **Transcripts** - Official transcript(s) from each college or university previously attended. A transcript is required even if the courses from one school appear on the transcript of another school.*
 - All foreign transcripts must be evaluated by World Education Services (WES). Visit <http://www.wes.org/> to view which documents are required for your country and to request an International Credential Advantage Package (ICAP) Course-by-Course Report.*
 - Upload transcript(s) from all institutions attended. (Do NOT send transcripts to SOPHAS Express).
4. **Grade Point Average (GPA)** - Minimum cumulative GPA of 2.75/4.0 scale in either:
 - Upper division undergraduate courses; OR
 - Upper division graduate courses.
5. **Statement of Purpose** - A Statement of Purpose (500-1000 words) that conveys the applicant's reasons for pursuing graduate study in public health and how admission into the program relates to the applicant's professional aspirations.

*NOTE: Unofficial documents must be uploaded for review purposes. Official transcripts are only required if you are offered admission. Following notification of admission, official transcripts mailed in sealed envelopes directly from each university attended (or directly from WES) are required PRIOR to the first day of classes of the original semester of acceptance. Failure to provide the official transcripts following notification of admission will result in revocation of the admission offer. Official documents must be mailed to: Georgia Southern University, Office of Graduate Admissions, P.O. Box 8113, Statesboro, GA 30460-8113.

Advisement: M.P.H.

Graduate students are advised by the Academic Services Coordinator and mentored by a faculty member from the Student's concentration areas.

Grades

M.P.H. level degree-seeking students are required to maintain a cumulative GPA of at least 3.0 to remain in good academic standing and to be eligible to graduate. In the event the cumulative GPA falls below 3.0, the student will be placed on academic probation. Students have nine (9) credits to elevate the cumulative GPA to at least 3.0 or will be excluded from the program. Students earning grades of "D" or below will be excluded from the program.

Transfer Credit Hours

Students may request that up to, but no more than, nine (9) graduate credits be applied toward the 45 credits required for the M.P.H. Transfer credit must also satisfy the same requirements as courses taught for masters training within the Jiann-Ping Hsu College of Public Health (e.g., minimum grade of "B"), be consistent with the student's approved

program of study, and have been received from a regionally accredited college or university. Thesis and dissertation credits cannot be transferred. The student must provide documentation in support of equivalence, such as a course syllabus, transcript, term paper, and/or instructor testimony. Equivalence is determined by the Division Director. Credit hour reductions do not influence the residency and enrollment requirements or comprehensive examination procedures.

Course Time Limit

All requirements for the M.P.H. must be completed within seven academic years from the date of the first enrollment for study following admission to the master's program. For transfer students, the seven-year time limit commences with the semester during which transfer credit hour was earned.

Experiential Learning Opportunities

All M.P.H. students are required to complete a public health practicum and complete the Integrated Capstone Experience. The practicum permits the student to receive practical experience in a selected public health-related setting. The practicum requires 300 hours of service. The Integrated Capstone Experience requires students to integrate basic principles and practices of public health in a case-based format.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Structure

The organizational structure of the JPHCOPH was developed to facilitate the work of the faculty within the three major faculty roles at Georgia Southern University: Teaching, Research, and Service as well as to assist the College in achieving its Vision, Mission, Goals, and Objectives.

Collaboration, facilitation, and personal and collective responsibility are fundamental to the culture of JPHCOPH. Maintaining this culture is required for the effective functioning and advancement of our College.

The following is a listing of the components of the JPHCOPH organizational structure: Office of the Dean, two departments, three centers, and the Public Health Laboratory. Although the academic programs are embedded within the departmental structure, they are governed by the program directors. Associate Deans and Department Chairs are appointed by the Dean. College business is coordinated through standing and ad-hoc committees.

The faculty of the JPHCOPH consist of the professors, associate professors, assistant professors, instructors, lecturers, and adjunct appointments in the five departments. Responsibilities of the faculty within the College include teaching, scholarship, and service. In addition, faculty members may be assigned administrative duties by the Administrative Officers as deemed necessary for effective and efficient functioning of JPHCOPH. The faculty within each Department work in collaboration with the Administrative Officers within the JPHCOPH to advance the Vision, Mission, Values, Goals, and Objectives.

Office of the Dean

Stuart Tedders, *Dean*
 Erin Shuman, *Executive Assistant to the Dean & Budget Manager*
 Bobbie Jo (BJ) Newell, *Assessment Specialist*
 Deborah Harvey, *Marketing & Communications Coordinator*
 Ruth Ellen Whitworth, *Academic Professional AC*

Office of Academic Affairs

Nandi Marshall, *Interim Associate Dean of Academic Affairs*
 Monica Brister, *Academic Services Coordinator & Graduate Academic Advisor*
 Sarah Dunn, *Undergraduate Academic Advisor*
 Jeffrey Jones, *Bachelor of Science in Public Health Program Director*
 Joanne Chopak-Foss, *Master of Public Health Program Director*
 Linda Kimsey, *Doctor of Public Health Program Director*
 Katie Mercer, *Distance Learning Coordinator*

Office of Practice and Research

Joseph Telfair, *Associate Dean of Practice & Research*

Department of Biostatistics, Epidemiology and Environmental Health Sciences

Hani Samawi, *Interim Chair*
 Jennifer Sowell, *Department Coordinator*

Department of Health Policy and Community Health

Gulzar Shah, *Chair*
 Candace McCray, *Department Coordinator*

Center for Addiction Recovery

Emily Eisenhart, *Director*
 Bret Frazier, *Program Coordinator*

Center for Public Health Practice and Research

Charles Owens, *Director*
 Angela Peden, *Assistant Director*

Karl E. Peace Center for Biostatistics and Survey Research

Haresh Rochani, *Director*

Public Health Laboratory

Marina Eremeeva, *Director*

College of Science and Mathematics

The College of Science and Mathematics contains the Departments of Biology, Chemistry & Biochemistry, Geology & Geography, Mathematical Science, and Physics and Astronomy, as well as the Department of Military Science and the James H. Oliver Institute for Coastal Plan Science. The College also manages the FORAM Sustainable Aquaponics Research Center, the Center for Wildlife Education and Lamar Q Ball, Jr Raptor Center, and the Botanic Garden. The College offers Master of Science programs in Biology, Mathematics, Applied Geography, and Applied Physical Science.

Vision

The College of Science and Mathematics and its dedicated faculty will be a national leader in the development of innovative curricula, and in integrating distinguished scholarship with superior undergraduate and graduate education.

Mission

The College of Science and Mathematics strives for excellence and innovation in undergraduate and graduate research, teaching practices, and service to our community. With an emphasis on high-impact educational practices, our highly-respected faculty foster learning in the classroom and beyond by promoting student engagement and offering cutting-edge research opportunities to students. Our degree programs prepare students to apply scientific discoveries which inform education, health, natural resource protection, and economic development. By combining state-of-the-art research labs and teaching spaces with numerous regional, national, and global collaborations, the College of Science and Mathematics is a leader in producing graduates to meet tomorrow's challenges.

Visit us at our web site at cosm.georgiasouthern.edu (<http://cosm.georgiasouthern.edu>)

College Structure

- Department of Biology (p. 227)
- Department of Chemistry and Biochemistry (p. 230)
- Department of Geology and Geography (p. 234)
- Department of Mathematical Sciences (p. 237)
- Department of Physics and Astronomy (p. 240)
- Structure (p. 240)

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (<https://catalog.georgiasouthern.edu/graduate/graduate-studies/general-graduate-policies-procedures/advisement/>) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu

Programs

Master's

- Applied Geography M.S. (Non-Thesis) (p. 234)
- Applied Geography M.S. (Thesis) (p. 235)
- Applied Physical Science M.S.A.P.S (Professional Science Master) (p. 230)
- Applied Physical Science M.S.A.P.S. (Non-Thesis) (p. 232)
- Applied Physical Science M.S.A.P.S. (Thesis) (p. 232)
- Biology M.S. (Non-Thesis) (p. 227)
- Biology M.S. (Thesis) (p. 228)
- Mathematical Sciences M.S. (Concentration in Applied Mathematics) (p. 238)
- Mathematical Sciences M.S. (Concentration in Computational Science) (p. 238)

- Mathematical Sciences M.S. (Concentration in Pure Mathematics) (p. 239)
- Mathematical Sciences M.S. (Concentration in Statistics) (p. 240)

Certificates

- Applied Statistics Certificate (p. 237)

Contacts

Dean: Delana Gajdosik-Nivens
2141 Engineering Building, Statesboro Campus
P. O. Box 8044
Phone (912) 478-5111
Science Center 1505, Armstrong Campus
Phone (912) 344-2964
dnivens@georgiasouthern.edu

Associate Dean of Research, Faculty, and Graduate Affairs: Lance D. McBrayer
2141 Engineering Building
P. O. Box 8044
Phone (912) 478-5111
lancemcbrayer@georgiasouthern.edu

Assistant Dean of Undergraduate Programs and Director of Student Success: Brian P. Koehler
2141 Engineering Building
P. O. Box 8044
Phone (912) 478-5111
bkoehler@georgiasouthern.edu

Associate Dean of Outreach, Planning, and Community: Brent Feske
Science Center 1505
11935 Abercorn Street
Savannah, GA 31419
Phone (912) 344-3210
bfeske@georgiasouthern.edu

Department of Biology

The Department of Biology, through the shared resources of multiple campuses, offers study in the field of biological sciences to provide students with a broad, foundational education through authentic learning experiences. The Department offers two options for the Master of Science in Biology (MS) degree, Thesis and a Non-Thesis.

The Master of Science degree is designed to provide cutting-edge training in biology that will prepare students for challenging professional careers or entry into competitive PhD programs. Graduate students practice up-to-date research and/or laboratory techniques, critical thinking, and independent learning. Additionally, students in the MS program have access to the amazing biodiversity and ecosystems of the southeastern United States, including coastal beaches and estuaries, major rivers and bottomland forest, and the southern Appalachians. Graduate research opportunities are based regionally, nationally, and internationally, as students in the program take advantage of the Biology Department's many affiliations with state and federal agencies, national parks and marine sanctuaries, and collaborators nationally and abroad.

The faculty is dedicated to providing students a challenging education that provides a foundation for life-long learning and an appreciation of biological processes and biological diversity. Southeast Georgia is a biologically rich and ecologically diverse area that encompasses coastline, wetlands, woodlands, and cities. Our student-centered programs support the University's mission to develop a vibrant learning environment for majors exemplified by a free exchange of ideas, high academic expectations, and individual responsibility for academic achievement. Our

programs further support the University's mission in promoting scientific and technological advancement, health services, sustainability, citizenship and social responsibility.

Programs

Master's

- Biology M.S. (Non-Thesis) (p. 227)
- Biology M.S. (Thesis) (p. 228)

Biology M.S. (Non-Thesis)

Degree Requirements: 36 Credit Hours

Admission

Students are selected for the Master of Science in Biology degree program on a competitive basis. Meeting minimum requirements does not guarantee admission. Applications are usually evaluated during the eighth week of the semester prior to the semester of admission. Applications for graduate assistantships must be received by March 1 to receive full consideration for fall. Assistantships are awarded for a maximum of five semesters and are reviewed each semester. Students must comply with the College of Graduate Studies degree completion time line for a master's degree. A student who has not matriculated for three or more consecutive semesters must reapply and meet all admission requirements in effect at the time of the new application for admission.

Admission Requirements

For unqualified admission to the College of Graduate Studies to pursue graduate work leading to the Master of Science degree in Biology, the applicant must have:

Regular

1. Completed requirements for the bachelor's degree in a college accredited by the proper regional accrediting associations.
2. A 2.80 (4.0 scale) cumulative grade point average or higher on all undergraduate work.
3. An undergraduate major or the equivalent appropriate to the proposed field of study. Adequately prepared applicants will typically have completed 24 credits of biology, 9 credits of mathematics, 16 credits of chemistry (including organic chemistry), and 8 credits of physics (or geological science).
4. Two letters of recommendation from individuals familiar with the applicant's potential to complete successful graduate work.
5. A statement of career goals to explain why you are interested in pursuing the degree and to explain your long term career plans.
6. Applicants are strongly encouraged to identify an adviser and submit the name to the graduate program director prior to the application deadline.

Provisional

Students who fail to meet one of the requirements 2-4 above may be admitted provisionally. To be converted to regular status, provisional students must earn a "B" or higher in their first six (6) credits of Biology graduate courses, approved by the Biology Program Director, with at least three (3) credits at the 7000-level. Directed Individual Study (BIOL 7890) or Biological Problems (BIOL 7893) cannot be taken for these six (6) credits. Students on provisional status may not hold a graduate assistantship.

Non-Degree

Non-degree students are accepted on an individual basis as space is available.

Thesis and Non-Thesis options are possible for the M.S. degree in Biology.

Program of Study (Non-Thesis Option)

The graduate student and the graduate committee shall jointly develop a Program of Study that includes 36 credits in graduate course work including the required courses listed below. Either faculty or the graduate program director may advise non-thesis students.

Non-Thesis Option, 36 Credit Hours

	Credit Hours
Core Requirements	8
BIOL 5000G-level	
BIOL 5000G-level and fulfills scientific process category	
Specialty Requirements	6
Select two of the following:	
BIOL 7133 Molecular Biology	
BIOL 7233 Applied Biology	
BIOL 7333 Evolutionary Ecology	
BIOL 7530 Biometry	
Other Requirements	5
BIOL 7610 Graduate Seminar	
BIOL 7610 Graduate Seminar	
BIOL 7890 Directed Individual Study	
or BIOL 7893 Biological Problems	
Note: "Non-Thesis" must be part of the course title	
Elective courses at 5000G level or above	17
Total Credit Hours	36

Note that a limit of six (6) credits of any combination of Directed Individual Study (BIOL 7890) and Biological Problems (BIOL 7893) and a limit of four (4) credits of *Graduate Seminar (BIOL 7610)* can be used toward the 36 credit degree requirement. Research (BIOL 7895) and Thesis (BIOL 7999) cannot be used toward the Non-Thesis option.

Other Program Requirements (Non-Thesis Option)

- To continue with the second year, each candidate for the Master of Science Non-Thesis degree in Biology in conjunction with the Graduate Committee must complete a Program of Study and identify an advisor who will oversee the Directed Individual Study (BIOL 7890) and/or Biological Problems (BIOL 7893), with an extensive scientific writing component requirement. Note: "Non-Thesis" must be part of the course title.
- Each candidate must receive Graduate Committee and Director of the Biology Graduate Program approval to take courses that do not apply to the MS Degree.
- Students entering the Master of Science Non-Thesis option in Biology can switch to the Thesis option within their first two academic semesters assuming that they are in good standing. They can apply to switch programs by completing the Department of Biology **Change of Degree Plan checklist** and completing steps 4a. through 4e. under the "Other Program Requirements" of the Thesis option by the end of the second semester. After the second academic semester, students may switch to the Thesis option by completing the required change of option paperwork and completing steps 4a. through 4e. under the

"Other Program Requirements" of the Thesis option in the term the change of option is requested. If the change of option is approved, all guidelines for the Thesis option apply.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Biology M.S. (Thesis)

Degree Requirements: 30 Credit Hours

Admission

Students are selected for the Master of Science in Biology degree program on a competitive basis. Meeting minimum requirements does not guarantee admission. Applications are usually evaluated during the eighth week of the semester prior to the semester of admission. Applications for graduate assistantships must be received by March 1 to receive full consideration for fall. Assistantships are awarded for a maximum of five semesters and are reviewed each semester. Students must comply with the College of Graduate Studies degree completion time line for a master's degree. A student who has not matriculated for three or more consecutive semesters must re-apply and meet all admission requirements in effect at the time of the new application for admission.

Admission Requirements

For unqualified admission to the College of Graduate Studies to pursue graduate work leading to the Master of Science degree in Biology, the applicant must have:

Regular

- Completed requirements for the bachelors degree in a college accredited by the proper regional accrediting associations.
- A 2.80 (4.0 scale) cumulative grade point average or higher on all undergraduate work.
- An undergraduate major or the equivalent appropriate to the proposed field of study. Adequately prepared applicants will typically have completed 24 credits of biology, 9 credits of mathematics, 16 credits of chemistry (including organic chemistry), and 8 credits of physics (or geological science).
- Two letters of recommendation from individuals familiar with the applicant's potential to complete successful graduate work.
- A statement of career goals to explain why you are interested in pursuing the degree and to explain your long term career plans.
- Applicants are strongly encouraged to identify a thesis adviser and submit the name to the graduate program director prior to the application deadline.

Provisional

Students who fail to meet one of the requirements 2-4 above may be admitted provisionally. To be converted to regular status, provisional students must earn a "B" or higher in their first six (6) credits of Biology graduate courses, approved by the Biology Program Director, with at least three (3) credits at the 7000-level. Directed Individual Study (BIOL 7890) or Biological Problems (BIOL 7893) cannot be taken for these

six (6) credits. Students on provisional status may not hold a graduate assistantship.

Non-Degree

Non-degree students are accepted on an individual basis as space is available.

Thesis and Non-Thesis options are possible for the M.S. degree in Biology.

Program of Study (Thesis Option)

The graduate student and their graduate committee shall jointly develop a Program of Study that includes 24 credits in graduate course work including the required courses listed below, plus three (3) credits of research and three (3) credits of thesis.

Thesis Option, 30 Credit Hours

	Credit Hours
Core Requirements	8
BIOL 7530 Biometry	
BIOL 7531 Research Methods	
BIOL 7610 Graduate Seminar ¹	
Specialty Requirements	
Select one of the following:	3
BIOL 7133 Molecular Biology	
BIOL 7233 Applied Biology	
BIOL 7333 Evolutionary Ecology	
Other Requirements	
BIOL 7895 Research	3
BIOL 7999 Thesis	3
Electives courses at 5000G level or above ²	13
Total Credit Hours	30

¹ This course Graduate Seminar (BIOL 7610) must be taken a minimum of two times.

² Note that a limit of six (6) credits of any combination of Directed Individual Study (BIOL 7890) and Biological Problems (BIOL 7893), and a limit of four (4) credits of Graduate Seminar (BIOL 7610) can be used toward the 30 credit degree requirement.

Other Program Requirements (Thesis Option)

- Each candidate for the Master of Science Thesis option in Biology must have accomplished the following by the end of their second term to earn or maintain their eligibility for a graduate assistantship:
 - Identified an adviser within the Biology Department
 - Formed a Steering Committee of the adviser and two other Biology Department Faculty
 - Written a thesis proposal and submitted any necessary IACUC / IBC / IRB applications
 - Met with the Steering Committee formally, submitted and received approval for their thesis proposal (i.e., prospectus) and Program of Study with appropriate signatures.
- Each candidate must receive approval from his/her Steering Committee and the Director of the Biology Graduate Program to take courses that do not apply to the MS Thesis Degree in Biology, or are taught outside of the Department of Biology.
- Each candidate for the Master of Science degree in Biology must complete a thesis on a subject approved by his/her steering committee.

- This thesis must be presented at a public exit seminar and, within 2 weeks following the seminar, defended before the thesis committee.
 - The thesis defense is a comprehensive examination that may include questions on the thesis, and subject matter related to the thesis, and course work.
 - In addition to the thesis, the student must provide the adviser with all forms of the data that were collected, including electronic files, and a written document detailing the contents of the data files (or other forms).
 - The degree is conferred at the end of the semester, after the student has passed the thesis defense and the final written version of the thesis has been approved by the committee.
4. Students entering the Master of Science Thesis option in Biology can apply to switch to the Non-Thesis option within their first two academic semesters by completing the appropriate change of degree paperwork assuming that they are in good standing (See the Graduate Program Director for the required paperwork). After their second academic semester, applications to switch to the Non-Thesis degree can occur, but a student cannot transfer more than twelve (12) credits of coursework from the thesis option to the non-thesis option. Additional criteria required to switch programs after the second semester are:
- Email the Biology Graduate Committee via the graduate program director a request to switch programs. This email should include an explanation and justification for the request. The request must receive approval for the switch from the Biology Graduate Committee. Approval to switch degree programs is not guaranteed.
 - Complete the Department of Biology **Change of Degree Plan checklist**, including all signatures.
 - If any thesis-related and/or grant-related research has been undertaken, providing the faculty mentor with the following (all in hard copy and electronic format whenever possible and relevant):
 - A written one page document detailing the objectives of the initiated research
 - A complete description of the methods used to collect data
 - All forms of data that were collected
 - A written document detailing the contents of all the data files (or other forms)
 - If data were gathered to meet the obligation of a grant (completely or in part), then the student must waive all rights and ownership over the data and any publications forthcoming from the use of the data.
 - With the College of Graduate Studies file
 - a new Program of Study form, and
 - a Change of Major or Study Concentration form.

Note the Directed Individual Study (BIOL 7890)/Biological Problems (BIOL 7893) course, and course title, requirements described under the non-thesis program.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Department of Chemistry and Biochemistry

The Department of Chemistry and Biochemistry offers a well-balanced program for the education of its students. The Department offers three undergraduate degree programs, a Bachelor of Science (B.S.) with a major in Chemistry, a Bachelor of Science (B.S.) with a major in Biochemistry and a Bachelor of Arts (B.A.) with a major in Chemistry.

To prepare students for their professional careers, the Department is committed to providing quality teaching and research experiences emphasizing critical and independent thought. The curriculum provides strong innovative instruction in the theory and practice of the chemical and biochemical sciences. The degree programs chemistry and biochemistry are accredited by the American Chemical Society (ACS, acs.org) while the biochemistry program also has provisional accreditation by the American Society of Biochemistry and Molecular Biology (ASBMB, asbmb.org).

The programs are designed to introduce students to modern laboratory methods and technology using state-of-the-art scientific equipment. The faculty is committed to providing an environment that addresses the individual needs of each student and encourages them to develop their potential through lifelong learning and to be responsible members of the profession and community. Our programs support the University's Mission and Values to promote academic excellence, discovery and innovation, sustainability, collaboration, integrity and inclusion.

Programs

Master's

- Applied Physical Science M.S.A.P.S (Professional Science Master) (p. 230)
- Applied Physical Science M.S.A.P.S. (Non-Thesis) (p. 232)
- Applied Physical Science M.S.A.P.S. (Thesis) (p. 232)

Applied Physical Science M.S.A.P.S (Professional Science Master)

Degree Requirements: 36 Credit Hours

Admission

Students are selected for the Master of Science in Applied Physical Science degree program on a competitive basis. Meeting minimum requirements does not guarantee admission.

Admission Requirements

Regular Admission

1. B.S. or B.A. degree in chemistry, physics, or related degree from an appropriate regionally accredited college or university, or an equivalent degree from a recognized foreign college or university. Official TOEFL scores (not more than two years old) required for international students.
2. An overall minimum cumulative GPA of 2.75 on a 4.0 scale or at the discretion of the graduate admission committee.
3. Official GRE Report showing competitive subtest scores by the start of the first semester of graduate courses.
4. Two Letters of Recommendation from individuals familiar with the applicant's potential to complete successful graduate work.

5. Applicant's Statement of Purpose & Research Experience, which must address
 - a. the student's preparation and research experiences for graduate study,
 - b. the student's goals for the graduate program, potential concentration area, and possible advisor (for thesis option), and
 - c. the student's professional goals following completion of the M.S.A.P.S. program
6. The applicant must have the appropriate undergraduate preparation for the area of concentration. This requires meeting the general M.S.A.P.S. requirements and the prerequisites listed for the particular concentration area.

Provisional Admission

Applicants who do not meet the admission requirements may be admitted provisionally. To be converted to regular status, provisional students must take any appropriate undergraduate courses as recommended by the graduate committee and must earn a "B" or higher in their first nine (9) credits of coursework approved by the graduate director.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available. Applicants must have a minimum cumulative GPA of 2.75 on a 4.0 scale and submit a Statement of Purpose and Research Experience.

Grades

Students are required to maintain a cumulative GPA of at least 3.0 to remain in good academic standing and to be eligible to graduate. In the event the cumulative GPA falls below 3.0, the student will be placed on academic probation. Students have nine (9) credits to elevate the cumulative GPA to at least 3.0 or will be excluded from the program. Students earning grades of "F" will also be excluded from the program.

Program Concentrations

The Master of Science in Applied Physical Science degree program provides concentrations in Environmental Science, Pharmaceutical Science, or Materials and Coatings Science.

A maximum of twelve (12) credits at the 5000 level are allowed for the Master of Science in Applied Physical Science degree.

Program of Study:

Environmental Science Concentration

	Credit Hours
Core Requirements	9
CHEM 6130 Industrial Science	
CHEM 6230 Scientific Inquiry and Ethics	
CHEM 6730 Master of Science in Physical Science Internship	
or PHYS 6730 Master of Science in Physical Science Internship	
Select two of the following:	6
BUSA 7130 International Business	
COMM 7150 Communication and Leadership in the Public Arena	
LEAD 7150 Leadership in the Public Arena: From Ideas to Action	
PUBH 6534 Health Policy and Management	
or substitution approved by Program Director	
Select two of the following:	6

CHEM 6530	Professional Science Communication	
PUBH 6541	Biostatistics	
STAT 5531G	Statistical Methods I	
Concentration Requirements		15
CHEM 5110G	Environmental Chemistry	
Concentration Elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator		
Total Credit Hours		36

Pharmaceutical Science Concentration

Core Requirements		9
CHEM 6130	Industrial Science	
CHEM 6230	Scientific Inquiry and Ethics	
CHEM 6730	Master of Science in Physical Science Internship	
or PHYS 6730	Master of Science in Physical Science Internship	
Select two of the following:		6
BUSA 7130	International Business	
COMM 7150	Communication and Leadership in the Public Arena	
LEAD 7150	Leadership in the Public Arena: From Ideas to Action	
PUBH 6534	Health Policy and Management	
or substitution approved by Program Director		
Select two of the following:		6
CHEM 6530	Professional Science Communication	
PUBH 6541	Biostatistics	
STAT 5531G	Statistical Methods I	
Concentration Requirements		15
PHYS 7330	Principles and Practice of Pre-clinical Drug Development	
Concentration Elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator		
Total Credit Hours		36

Material and Coatings Science Concentration

Core Requirements		9
CHEM 6130	Industrial Science	
CHEM 6230	Scientific Inquiry and Ethics	
CHEM 6730	Master of Science in Physical Science Internship	
or PHYS 6730	Master of Science in Physical Science Internship	
Select two of the following:		6
BUSA 7130	International Business	
COMM 7150	Communication and Leadership in the Public Arena	
LEAD 7150	Leadership in the Public Arena: From Ideas to Action	
PUBH 6534	Health Policy and Management	
or substitution approved by Program Director		

Select two of the following:		6
ACCT 7134		
CHEM 6530	Professional Science Communication	
PUBH 6541	Biostatistics	
STAT 5531G	Statistical Methods I	

Concentration Requirements		
Choose two of the courses below:		6
PHYS/CHEM 6131	Solid State Materials	
CHEM 7334	Polymer Materials	
CHEM 7335	Coatings Technology	
Concentration Elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator		9
Total Credit Hours		36

Accelerated Bachelor's to Master's in Applied Physical Science

Admission:
Students are selected for the Master of Science in Applied Physical Science degree program on a competitive basis. Meeting the minimum requirements does not guarantee admission.

- Admission Requirements:**
1. Student must complete a minimum of 24 semester credit hours in their major courses for either a biology, biochemistry, chemistry, physics, or geology degree.
 2. Student must have a minimum GPA of 3.25 overall in their major courses or at the discretion of the graduate admissions committee.
 3. Two letters of recommendation from individuals familiar with the applicant's potential to complete successful graduate work

Program Requirements:
In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required in a Masters degree program. The MSAPS-PSM-ABM program combines 124 hours from the BS Biology, BS Biochemistry, BS Chemistry, BS Geology or BS Physics program and 36 hours from the MSAPS-APS program, exceeding the required 150 unique hours between undergraduate and graduate degree programs by 10 hours. The Jack N. Averitt College of Graduate Studies Handbook for Program Directors and Graduate Advisors permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, MSAPS-APS-ABM students may share a maximum of 9 credit hours of Masters level courses (5000G-8000) in satisfying the requirements of both degree programs

Grades:
Students are required to maintain a cumulative GPA of at least a 3.0 to remain in good academic standing and to be eligible to graduate. In the event the cumulative GPA falls below 3.0, the student will be placed on academic probation. Students will have nine (9) credits to elevate the cumulative GPA to at least 3.0 or will be excluded from the program. Students earning grades of "F" will also be excluded from the program.

Advisement
Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.

Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Applied Physical Science M.S.A.P.S. (Non-Thesis)

Degree Requirements: 36 Credit Hours (Non-Thesis)

Admission

Students are selected for the Master of Science in Applied Physical Science degree program on a competitive basis. Meeting minimum requirements does not guarantee admission.

Admission Requirements

Regular Admission

1. B.S. or B.A. degree in chemistry, physics, or related degree from an appropriate regionally accredited college or university, or an equivalent degree from a recognized foreign college or university. Official TOEFL scores (not more than two years old) required for international students.
2. An overall minimum cumulative GPA of 2.75 on a 4.0 scale or at the discretion of the graduate admission committee.
3. Official GRE Report showing competitive subtest scores by the start of the first semester of graduate courses.
4. Two Letters of Recommendation from individuals familiar with the applicant's potential to complete successful graduate work.
5. Applicant's Statement of Purpose & Research Experience, which must address
 - a. the student's preparation and research experiences for graduate study,
 - b. the student's goals for the graduate program, potential concentration area, and possible advisor (for thesis option), and
 - c. the student's professional goals following completion of the M.S.A.P.S. program
6. The applicant must have the appropriate undergraduate preparation for the area of concentration. This requires meeting the general M.S.A.P.S. requirements and the prerequisites listed for the particular concentration area.

Provisional Admission

Applicants who do not meet the admission requirements may be admitted provisionally. To be converted to regular status, provisional students must take any appropriate undergraduate courses as recommended by the graduate committee and must earn a "B" or higher in their first nine (9) credits of coursework approved by the graduate director.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available. Applicants must have a minimum cumulative GPA of 2.75 on a 4.0 scale and submit a Statement of Purpose and Research Experience.

Grades

Students are required to maintain a cumulative GPA of at least 3.0 to remain in good academic standing and to be eligible to graduate. In the event the cumulative GPA falls below 3.0, the student will be placed on academic probation. Students have nine (9) credits to elevate the cumulative GPA to at least 3.0 or will be excluded from the program. Students earning grades of "F" will also be excluded from the program.

A maximum of twelve (12) credits at the 5000 level are allowed for the Master of Science in Applied Physical Science degree.

Program of Study: Non-Thesis Option, 36 Credit Hours

The graduate student and the program director shall jointly develop a program of study that includes 36 credits in graduate coursework including the required courses below.

	Credit Hours
Core Requirements	15
CHEM 6130 Industrial Science	
CHEM 6230 Scientific Inquiry and Ethics	
CHEM 6530 Professional Science Communication	
CHEM 7630 Graduate Seminar or PHYS 7630 Graduate Seminar	
PUBH 6541 Biostatistics or STAT 5531G Statistical Methods I	
Specialty Requirements	6
Select two of the courses below	
CHEM 5110G Environmental Chemistry	
CHEM 5420G Principles of Drug Design	
CHEM 7334 Polymer Materials	
PHYS 6131 Solid State Materials	
PHYS 6132 Applied Optics	
PHYS 7330 Principles and Practice of Pre-clinical Drug Development	
Elective Requirements	15
Elective courses at 5000G level or above with no more than 6 credit hours at the the 5000G level	
Total Credit Hours	36

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Applied Physical Science M.S.A.P.S. (Thesis)

Degree Requirements: 30 Credit Hours (Thesis)

Admission

Students are selected for the Master of Science in Applied Physical Science degree program on a competitive basis. Meeting minimum requirements does not guarantee admission.

Admission Requirements

Regular Admission

1. B.S. or B.A. degree in chemistry, physics, or related degree from an appropriate regionally accredited college or university, or an equivalent degree from a recognized foreign college or university. Official TOEFL scores (not more than two years old) required for international students.
2. An overall minimum cumulative GPA of 2.75 on a 4.0 scale or at the discretion of the graduate admission committee.
3. Official GRE Report showing competitive subtest scores by the start of the first semester of graduate courses.
4. Two Letters of Recommendation from individuals familiar with the applicant's potential to complete successful graduate work.
5. Applicant's Statement of Purpose & Research Experience, which must address
 - a. the student's preparation and research experiences for graduate study,
 - b. the student's goals for the graduate program, potential concentration area, and possible advisor (for thesis option), and
 - c. the student's professional goals following completion of the M.S.A.P.S. program
6. The applicant must have the appropriate undergraduate preparation for the area of concentration. This requires meeting the general M.S.A.P.S. requirements and the prerequisites listed for the particular concentration area.

Provisional Admission

Applicants who do not meet the admission requirements may be admitted provisionally. To be converted to regular status, provisional students must take any appropriate undergraduate courses as recommended by the graduate committee and must earn a "B" or higher in their first nine (9) credits of coursework approved by the graduate director.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available. Applicants must have a minimum cumulative GPA of 2.75 on a 4.0 scale and submit a Statement of Purpose and Research Experience.

Grades

Students are required to maintain a cumulative GPA of at least 3.0 to remain in good academic standing and to be eligible to graduate. In the event the cumulative GPA falls below 3.0, the student will be placed on academic probation. Students have nine (9) credits to elevate the cumulative GPA to at least 3.0 or will be excluded from the program. Students earning grades of "F" will also be excluded from the program.

Program Concentrations

The Master of Science in Applied Physical Science degree Thesis program provides concentrations in Environmental Science, Pharmaceutical Science, or Materials and Coatings Science.

Program of Study:

A maximum of twelve (12) credits at the 5000 level are allowed for the Master of Science in Applied Physical Science degree.

Environmental Science Concentration

Core Requirements	Credit Hours
CHEM 6130 Industrial Science	15

CHEM 6230	Scientific Inquiry and Ethics	
CHEM 7630	Graduate Seminar	
or PHYS 7630	Graduate Seminar	
CHEM 7999	Thesis	
or PHYS 7999	Thesis	
PUBH 6541	Biostatistics	
or STAT 5531G	Statistical Methods I	
Concentration Requirements:		15
CHEM 5110G	Environmental Chemistry	
Additional concentration elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator		
Total Credit Hours		30

Pharmaceutical Science Concentration

	Credit Hours	
Core Requirements	15	
CHEM 6130	Industrial Science	
CHEM 6230	Scientific Inquiry and Ethics	
CHEM 7630	Graduate Seminar	
or PHYS 7630	Graduate Seminar	
CHEM 7999	Thesis	
or PHYS 7999	Thesis	
PUBH 6541	Biostatistics	
or STAT 5531G	Statistical Methods I	
Concentration Requirements:		15
PHYS 7330	Principles and Practice of Pre-clinical Drug Development	
Additional concentration elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator		
Total Credit Hours		30

Material and Coatings Science Concentration

	Credit Hours	
Core Requirements	15	
CHEM 6130	Industrial Science	
CHEM 6230	Scientific Inquiry and Ethics	
CHEM 7630	Graduate Seminar	
or PHYS 7630	Graduate Seminar	
CHEM 7999	Thesis	
or PHYS 7999	Thesis	
PUBH 6541	Biostatistics	
or STAT 5531G	Statistical Methods I	
Concentration Requirements		6
Choose two of the courses below:		
CHEM 6131	Solid State Materials	

CHEM 7334 Polymer Materials	
CHEM 7335 Coatings Technology	
Additional concentration elective courses at or above the 5000 level - as contracted with the faculty advisor and degree coordinator	9
Total Credit Hours	30

Thesis

Each Candidate for the Master of Science in Applied Physical Science degree, thesis option, must complete a thesis on a subject approved by the graduate thesis committee. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has the responsibility for an intensive and rigorous criticism of the thesis, and a third member of the thesis committee has the responsibility of an "editorial reader." Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Applied Physical Science degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the ETD format check submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.

See the *Thesis and Dissertation Student Guide to Preparation and Processing* for additional Thesis information.

Accelerated Bachelor's to Master's in Applied Physical Science

Admission:

Students are selected for the Master of Science in Applied Physical Science degree program on a competitive basis. Meeting the minimum requirements does not guarantee admission.

Admission Requirements:

1. Student must complete a minimum of 24 semester credit hours in their major courses for either a biology, biochemistry, chemistry, physics or geology degree.
2. Student must have a minimum GPA of 3.25 overall in their major courses or at the discretion of the graduate admissions committee.
3. Two letters of recommendation from individuals familiar with the applicant's potential to complete successful graduate work

Program Requirements:

In accordance with SACSCOC requirements, 120 unique credit hours are required in a Bachelors degree program, and at least 30 unique credit hours are required in a Masters degree program. The MSAPS-APS-ABM program combines 124 hours from the BS Biology, BS Biochemistry, BS Chemistry, BS Geology or BS Physics program and 30 hours from the MSAPS-APS program, exceeding the required 150 unique hours between undergraduate and graduate degree programs by 4 hours. The Jack N. Averitt College of Graduate Studies Handbook for Program Directors and

Graduate Advisors permits a maximum of 9 shared credit hours between the undergraduate and graduate degree programs. Therefore, MSAPS-APS-ABM students may share a maximum of 4 credit hours of Masters level courses (5000G-8000) in satisfying the requirements of both degree programs

Grades:

Students are required to maintain a cumulative GPA of at least a 3.0 to remain in good academic standing and to be eligible to graduate. In the event the cumulative GPA falls below 3.0, the student will be placed on academic probation. Students will have nine (9) credits to elevate the cumulative GPA to at least 3.0 or will be excluded from the program. Students earning grades of "F" will also be excluded from the program.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu

Department of Geology and Geography

The Department of Geology and Geography offers a balance of teaching, research, and service to the region served by the University, and beyond. Areas of focus among geography faculty include geomorphology, geospatial analysis, economic geography, health geography, cultural geography, urban geography, coastal wetlands, ecohydrology, hazards, and biogeography. The Department offers two options for the Master of Science in Applied Geography (MS) degree, Thesis and a Non-Thesis.

The Master of Science degree prepares graduates for advanced study, meaningful employment, and life-long learning. The program's applied focus nurtures a culture of engagement, providing students with hands-on learning opportunities and helping students from a variety of academic disciplines apply their classroom knowledge to real-world situations. The increasing demand for readily available, consistent, accurate, complete, and current geographic information and the widespread availability and use of advanced geospatial technologies offer excellent career opportunities for our graduates.

Programs

Master's

- Applied Geography M.S. (Non-Thesis) (p. 234)
- Applied Geography M.S. (Thesis) (p. 235)

Applied Geography M.S. (Non-Thesis)

Degree Requirements: 36 Credit Hours (Non-Thesis Option)

Admission

Students are selected for the Master of Science in Applied Geography degree program on a competitive basis. Meeting minimum requirements

does not guarantee admission. Applications for graduate assistantships must be received by April 1 to receive full consideration for fall. Assistantships are awarded for a maximum of five semesters and are reviewed each semester. Students must comply with the College of Graduate Studies degree completion timeline for a master's degree. A student who has not matriculated for three or more consecutive semesters must re-apply and meet all admission requirements in effect at the time of the new application for admission.

Admission Requirements

For potential admission to the College of Graduate Studies to pursue graduate work leading to the Master of Science degree in Applied Geography, the applicant:

1. Must have completed requirements for the bachelors degree in a college accredited by the proper regional accrediting associations.
2. Must complete the Graduate Record Exam (GRE) (scores must be sent to the College of Graduate Studies).
3. Must complete the TOEFL Exam with scores sent to the College of Graduate Studies (**international students only**).
4. Must submit a statement of purpose explaining the reasons for pursuing a Master of Science in Applied Geography.
5. Must submit three letters of recommendation.
6. Typically, will have a minimum 2.75 cumulative grade point average (on a 4.0 scale) for all undergraduate coursework.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available. Thesis and Non-Thesis options are possible for the M.S. degree in Applied Geography.

Program of Study (Non-Thesis Option)

Non-Thesis Option, 36 Credit Hours

The graduate student and the program director shall jointly develop a program of study that includes 36 credits in graduate coursework including the required courses below. Note that Thesis (GEOG 7999) cannot be used toward the Non-Thesis Option.

	Credit Hours
Core Requirements	9
GEOG 7630 Seminar in Geographic Thought	
GEOG 7631 Spatial Analysis	
GEOG 7632 Seminar in Geographic Research and Methods	
Electives	21
Major Electives (must choose at least 3 of the following courses)	
GEOG 7531 Global Climate Change	
GEOG 7535 Cultural and Political Ecology	
GEOG 7541 GIS Applications in Social Science	
GEOG 7542 Geospatial Techniques and Applications	
GEOG 7543 Frontiers in Geospatial Science	
Electives (must choose at least 3 of the following courses)	
GEOG 5091G Applied GIS	
GEOG 5230G Urban Geography	
GEOG 5231G Economic Geography	

GEOG 5330G	Population Geography
GEOG 5435G	Nature and Society
GEOG 5430G	Political Geography
GEOG 5441G	Remote Sensing
GEOG 5530G	Cultural Geography
GEOG 5531G	Environmental Impact and Remediation
GEOG 5532G	Tourism Geographies
GEOG 5535G	Biogeography
GEOG 5545G	Ecohydrology
GEOG 5540G	Advanced GIS
Other graduate level courses as approved by the Graduate Director and Department Chair	
Capstone	6
GEOG 7830	Non-Thesis Capstone
Total Credit Hours	
	36

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647) Email: gradschool@georgiasouthern.edu

Applied Geography M.S. (Thesis)

Degree Requirements: 36 Credit Hours (Thesis Option)

Admission

Students are selected for the Master of Science in Applied Geography degree program on a competitive basis. Meeting minimum requirements does not guarantee admission. Applications for graduate assistantships must be received by April 1 to receive full consideration for fall. Assistantships are awarded for a maximum of five semesters and are reviewed each semester. Students must comply with the College of Graduate Studies degree completion timeline for a master's degree. A student who has not matriculated for three or more consecutive semesters must re-apply and meet all admission requirements in effect at the time of the new application for admission.

Admission Requirements

For potential admission to the College of Graduate Studies to pursue graduate work leading to the Master of Science degree in Applied Geography, the applicant:

1. Must have completed requirements for the bachelors degree in a college accredited by the proper regional accrediting associations.
2. Must complete the Graduate Record Exam (GRE) (scores must be sent to the College of Graduate Studies).
3. Must complete the TOEFL Exam with scores sent to the College of Graduate Studies (**international students only**).
4. Must submit a statement of purpose explaining the reasons for pursuing a Master of Science in Applied Geography.
5. Must submit three letters of recommendation.
6. Typically, will have a minimum 2.75 cumulative grade point average (on a 4.0 scale) for all undergraduate coursework.

Non-Degree

Non-degree students are accepted on an individual basis as space is available. Thesis and Non-Thesis options are possible for the M.S. degree in Applied Geography.

Program of Study (Thesis Option)

Thesis Option, 36 Credit Hours

The graduate student and the graduate committee shall jointly develop a Program of Study that includes 36 credits in graduate course work including the required courses listed below. Either faculty or the graduate program director may advise non-thesis students.

	Credit Hours
Core Requirements	9
GEOG 7630 Seminar in Geographic Thought	
GEOG 7631 Spatial Analysis	
GEOG 7632 Seminar in Geographic Research and Methods	
Electives	21
Major Electives (must choose at least 3 of the following courses)	
GEOG 7531 Global Climate Change	
GEOG 7535 Cultural and Political Ecology	
GEOG 7541 GIS Applications in Social Science	
GEOG 7542 Geospatial Techniques and Applications	
GEOG 7543 Frontiers in Geospatial Science	
Electives (must choose at least 3 of the following courses)	
GEOG 5091G Applied GIS	
GEOG 5230G Urban Geography	
GEOG 5231G Economic Geography	
GEOG 5330G Population Geography	
GEOG 5430G Political Geography	
GEOG 5435G Nature and Society	
GEOG 5441G Remote Sensing	
GEOG 5530G Cultural Geography	
GEOG 5531G Environmental Impact and Remediation	
GEOG 5532G Tourism Geographies	

GEOG 5535G	Biogeography	
GEOG 5540G	Advanced GIS	
GEOG 5545G	Ecohydrology	
Other graduate level courses as approved by the Graduate Director and Department Chair		
Thesis		
GEOG 7999	Thesis	6
Total Credit Hours		36

Other Program Requirements (Thesis Option)

Each candidate for the Master of Science Thesis option in Applied Geography must have accomplished the following by the end of their second term to earn or maintain their eligibility for a graduate assistantship:

1. Identified an adviser within the Geography Program.
2. Formed a Steering Committee of the adviser and two other approved faculty.
3. Each candidate must receive approval from the Geography Graduate Director of the Applied Geography Graduate Program to take courses that are taught outside of the Geography Program and/or do not apply to the M.S. in Applied Geography degree.
4. Each candidate for the Master of Science Thesis Option in Applied Geography must complete a thesis on a subject approved by his/her steering committee.
 - This thesis must be defended before the thesis committee.
 - The thesis defense is a comprehensive examination that may include questions on the thesis, and subject matter related to the thesis, and course work.
 - In addition to the thesis, the student must provide the adviser (if requested) with all forms of the data that were collected, including electronic files, and a written document detailing the contents of the data files (or other forms).

The degree is conferred at the end of the semester during which the student has passed the thesis defense and the final written version of the thesis has been approved by the committee.

Students entering the Master of Science Thesis option in Applied Geography can apply to switch to the Non-Thesis option within their first two academic semesters by completing the appropriate change of degree paperwork assuming that they are in good standing (See the Graduate Program Director for the required paperwork). After their second academic semester, applications to switch to the Non-Thesis degree can occur, but a student cannot transfer more than twelve (12) credits of coursework from the thesis option to the non-thesis option. Additional criteria required to switch programs after the second semester are: < > Email the Geography Graduate Committee via the graduate program director a request to switch programs. This email should include an explanation and justification for the request. The request must receive approval for the switch from the Geography Graduate Director and Geology and Geography Department Chair.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more

information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu

Department of Mathematical Sciences

The Department of Mathematical Sciences offers programs of study for students interested in mathematics, mathematics education or statistics. The department is dedicated to providing students with excellent instruction that incorporates innovative instructional techniques and technologies, and with opportunities to participate with faculty in research. In their roles as teacher-scholars, the faculty maintains consistent and significant productivity, recognized at regional, national, and international levels, in basic research, applications, and pedagogy. The department is strengthened by the extensive service activities of the faculty on campus and in the community as well as through high-profile service to the profession. In addition, the department provides many areas for student involvement, including an active student organization and student competition teams.

Programs

Master's

- Mathematical Sciences M.S. (Concentration in Applied Mathematics) (p. 238)
- Mathematical Sciences M.S. (Concentration in Computational Science) (p. 238)
- Mathematical Sciences M.S. (Concentration in Pure Mathematics) (p. 239)
- Mathematical Sciences M.S. (Concentration in Statistics) (p. 240)

Certificates

- Applied Statistics Certificate (p. 237)

Applied Statistics Certificate

Certificate Requirements: 12 Credit Hours

Participation in the Certificate Program is open to any qualified, degree-seeking graduate student at Georgia Southern University. Students currently enrolled in a degree program must first apply and be admitted to the Certificate program. As permitted by their degree program, students may apply coursework to both the certificate program and their degree. It is not required that the certificate and degree be completed simultaneously; however, students must be enrolled to take classes and the seven-year limitation on the application of prior coursework to either the degree or the certificate must be satisfied. Upon recommendation of the Graduate Program Director and approval from the College of Graduate Studies, credit earned in a certificate program may be applied to a graduate degree program.

Finally, students seeking only the Graduate Certificate or the Graduate Certificate independent of another degree program, may be admitted by the College of Graduate Studies (COGS) under a Non-Degree Certificate admission status. Admission as Non-Degree Certificate does not guarantee subsequent admission to a graduate degree program. Applying to a graduate program is a separate process and different criteria must be met. Certificate program admissions decisions are based on applicants' prior academic work and other factors that indicate their

potential for program success and enrichment of the learning environment. Upon recommendation of the graduate program director and approval of the College of Graduate Studies, a maximum of six (6) credits earned before the student entered the certificate program may be applied to that program.

The minimum grade requirements for the graduate certificate are the same as those for graduate degrees. For graduate credit, the grade in a course must be "C" or higher. To remain in good standing, a student must maintain a cumulative GPA of 3.0 or higher. To be awarded a graduate certificate, students:

1. must not be on probation;
2. must have a cumulative GPA of 3.0 or higher on graduate coursework and on coursework applied to the certificate;
3. must meet all the requirements of COGS and the student's certificate program; and
4. must be enrolled during the semester in which the certificate requirements are completed.

Program of Study

	Credit Hours
Prerequisites	
MATH 2242 Calculus II	
MATH 3337 Probability	
Statistics Requirements ¹	12
STAT 5531 Statistical Methods I or STAT 5531G Statistical Methods I	
STAT 7331 Mathematical Statistics I	
Select two additional courses from those below with the approval of a statistics advisor:	
STAT 7130 Applied Multivariate Statistical Analysis	
STAT 7132 Applied Nonparametric Statistics	
STAT 7134 Applied Regression Analysis	
STAT 7231 Design of Experiments I	
STAT 7332 Mathematical Statistics II	
Total Credit Hours	12

¹ A minimum grade of "C" is required for each course listed.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director.
 Phone: 912-478-COGS (2647)
 Email: gradschool@georgiasouthern.edu

Mathematical Sciences M.S. (Concentration in Applied Mathematics)

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular Admission

For regular admission to the College of Graduate Studies to pursue work leading to this degree, the applicant must have:

1. Completed requirements for the Bachelor's degree in a science, engineering, or mathematical discipline at a regionally accredited college or university.
2. Submitted scores from the Graduate Record Examinations (GRE) and Test of English as Foreign Language (TOEFL) (international students only) to the College of Graduate Studies. Conditional admission without the GRE is acceptable, provided it is completed within one calendar year of admission to the program.
3. Successfully completed courses in calculus, probability, and linear algebra.

Provisional Admission

Applicants who do not meet admission requirements may be admitted provisionally but must take appropriate undergraduate courses before receiving regular admission. Admission of an applicant who is deemed marginal may require that an interview be conducted by a committee of graduate faculty members from the department.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available. Upon the advisor's recommendation, up to a maximum of nine (9) credits earned as a non-degree student may be included in the program of study if a non-degree student is granted regular admission.

Program of Study

The graduate student and the graduate advisor shall develop a Program of Study that consists of 30 credits of graduate course work, including nine (9) credits of core courses, and 21 credits of elective courses. In addition, the Program of Study will include three (3) credits of Research and three (3) credits of Thesis in the area of concentration. Of the 36 required credits, at least 18 credits must be at the 7000 level. At most, 11 credits of any combination of Directed Study in Mathematics (MATH 7890), Research (MATH 7895) and Thesis (MATH 7999) will count towards the 36 credits required for the degree.

	Credit Hours
Core Requirements	9
MATH 7231 Advanced Numerical Analysis I	
MATH 7234 Advanced Linear Algebra	
MATH 7331 Real Analysis	
Electives	21
Selected Courses in Applied Mathematics. Other approved courses outside the department that support the concentration area may also be considered. See the department website for information on acceptable courses for this concentration. A maximum of two elective courses may be taken from outside the student's concentration area. These must be approved by the graduate advisor.	
Research	3

MATH 7895 Research	
Thesis	3
MATH 7999 Thesis	
Total Credit Hours	36

Other Program Requirements

Each candidate for the Master of Science in Mathematics must complete a thesis on a subject in Applied Mathematics approved by the student's advisor. The thesis must be defended before a student advisory committee. The presentation part of the defense is open to the public.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)

Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Mathematical Sciences M.S. (Concentration in Computational Science)

Degree Requirements: 36 Credit Hours

Admission Requirement

Regular Admission

For regular admission to the College of Graduate Studies to pursue work leading to this degree, the applicant must have:

1. Completed requirements for the Bachelor's degree in a science, engineering, or mathematical discipline at a regionally accredited college or university.
2. Submitted scores from the Graduate Record Examinations (GRE) and Test of English as Foreign Language (TOEFL) (international students only) to the College of Graduate Studies. Conditional admission without the GRE is acceptable, provided it is completed within one calendar year of admission to the program.
3. Successfully completed courses in calculus, probability, and linear algebra.

Provisional Admission

Applicants who do not meet admission requirements may be admitted provisionally but must take appropriate undergraduate courses before receiving regular admission. Admission of an applicant who is deemed marginal may require that an interview be conducted by a committee of graduate faculty members from the department.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available. Upon the advisor's recommendation, up to a maximum of nine (9) credits earned as a non-degree student may be included in the program of study if a non-degree student is granted regular admission.

Program of Study

The graduate student and the graduate advisor shall develop a Program of Study that consists of 30 credits of graduate course work, including nine (9) credits of core courses, and 21 credits of elective courses. In addition, the Program of Study will include three (3) credits of Research and three (3) credits of Thesis in the area of concentration. Of the 36 required credits, at least 18 credits must be at the 7000 level. At most, 11 credits of any combination of Directed Study in Mathematics (MATH 7890), Research (MATH 7895) and Thesis (MATH 7999) will count towards the 36 credits required for the degree.

	Credit Hours
Core requirements	9
MATH 7132 Methods of Optimization	
MATH 7231 Advanced Numerical Analysis I	
MATH 7234 Advanced Linear Algebra	
Electives	21
Selected Courses in Computational science. Other approved courses outside the department that support the concentration areas may also be considered. See the department website for information on acceptable courses for this concentration. A maximum of two elective courses may be taken from outside the student's concentration area. These must be approved by the graduate advisor.	
Research	3
MATH 7895 Research	
Thesis	3
MATH 7999 Thesis	
Total Credit Hours	36

Other Program Requirements

Each candidate for the Master of Science in Mathematics must complete a thesis on a subject in Computational Science approved by the student's advisor. The thesis must be defended before a student advisory committee. The presentation part of the defense is open to the public.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Mathematical Sciences M.S. (Concentration in Pure Mathematics)

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular Admission

For regular admission to the College of Graduate Studies to pursue work leading to this degree, the applicant must have:

1. Completed requirements for the Bachelor's degree in a science, engineering, or mathematical discipline at a regionally accredited college or university.
2. Submitted scores from the Graduate Record Examinations (GRE) and Test of English as Foreign Language (TOEFL) (international students only) to the College of Graduate Studies. Conditional admission without the GRE is acceptable, provided it is completed within one calendar year of admission to the program.
3. Successfully completed courses in calculus, probability, and linear algebra.

Provisional Admission

Applicants who do not meet admission requirements may be admitted provisionally but must take appropriate undergraduate courses before receiving regular admission. Admission of an applicant who is deemed marginal may require that an interview be conducted by a committee of graduate faculty members from the department.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available. Upon the advisor's recommendation, up to a maximum of nine (9) credits earned as a non-degree student may be included in the program of study if a non-degree student is granted regular admission.

Program of Study

The graduate student and the graduate advisor shall develop a Program of Study that consists of 30 credits of graduate course work, including nine (9) credits of core courses, and 21 credits of elective courses. In addition, the Program of Study will include three (3) credits of Research and three (3) credits of Thesis in the area of concentration. Of the 36 required credits, at least 18 credits must be at the 7000 level. At most, 11 credits of any combination of Directed Study in Mathematics (MATH 7890), Research (MATH 7895) and Thesis (MATH 7999) will count towards the 36 credits required for the degree.

	Credit Hours
Core Requirements	9
MATH 7234 Advanced Linear Algebra	
MATH 7331 Real Analysis	
MATH 7430 Abstract Algebra I	
Electives	21
Selected Courses in Pure Mathematics. Other approved courses outside the department that support the concentration areas may also be considered. See the department website for information on acceptable courses for this concentration. A maximum of two elective courses may be taken from outside the student's concentration area. These must be approved by the graduate advisor.	
Research	3
MATH 7895 Research	
Thesis	3
MATH 7999 Thesis	
Total Credit Hours	36

Other Program Requirements

Each candidate for the Master of Science in Mathematics must complete a thesis on a subject in Pure Mathematics approved by the student's advisor. The thesis must be defended before a student advisory committee. The presentation part of the defense is open to the public.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Mathematical Sciences M.S. (Concentration in Statistics)

Degree Requirements: 36 Credit Hours

Admission Requirements

Regular Admission

For regular admission to the College of Graduate Studies to pursue work leading to this degree, the applicant must have:

1. Completed requirements for the Bachelor's degree in a science, engineering, or mathematical discipline at a regionally accredited college or university.
2. Submitted scores from the Graduate Record Examinations (GRE) and Test of English as Foreign Language (TOEFL) (international students only) to the College of Graduate Studies. Conditional admission without the GRE is acceptable, provided it is completed within one calendar year of admission to the program.
3. Successfully completed courses in calculus, probability, and linear algebra.

Provisional Admission

Applicants who do not meet admission requirements may be admitted provisionally but must take appropriate undergraduate courses before receiving regular admission. Admission of an applicant who is deemed marginal may require that an interview be conducted by a committee of graduate faculty members from the department.

Non-Degree Admission

Non-degree students are accepted on an individual basis as space is available. Upon the advisor's recommendation, up to a maximum of nine (9) credits earned as a non-degree student may be included in the program of study if a non-degree student is granted regular admission.

Program of Study

The graduate student and the graduate advisor shall develop a Program of Study that consists of 30 credits of graduate course work, including nine (9) credits of core courses, and 21 credits of elective courses. In addition, the Program of Study will include three (3) credits of Research and three (3) credits of Thesis in the area of concentration. Of the 36 required credits, at least 18 credits must be at the 7000 level. At most, 11 credits of any combination of Directed Study in Mathematics (MATH 7890), Research (MATH 7895) and Thesis (MATH 7999) will count towards the 36 credits required for the degree.

	Credit Hours
Core Requirements	9
MATH 7234 Advanced Linear Algebra	

STAT 7331	Mathematical Statistics I	
STAT 7332	Mathematical Statistics II	

Electives

Selected Courses in Statistics. Other approved courses outside the department that support the concentration areas may also be considered. See the department website for information on acceptable courses for this concentration. A maximum of two elective courses may be taken from outside the student's concentration area. These must be approved by the graduate advisor.

Research

MATH 7895	Research	3
or STAT 7895	Research	

Thesis

MATH 7999	Thesis	3
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Total Credit Hours		36
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Other Program Requirements

Each candidate for the Master of Science in Mathematics must complete a thesis on a subject in Statistics approved by the student's advisor. The thesis must be defended before a student advisory committee. The presentation part of the defense is open to the public.

Advisement

Graduate students are advised by their program. Graduate students should reach out to their graduate program director for information regarding the structures in place to facilitate advisement. For more information visit the Graduate Academic Advisement (p. 35) catalog page.

Graduate students can also contact the Jack N. Averitt College of Graduate Studies for more information about their program director. Phone: 912-478-COGS (2647)
Email: gradschool@georgiasouthern.edu
(gradschool@georgiasouthern.edu)

Department of Physics and Astronomy

The mission of the Department of Physics at Georgia Southern University is four-fold. First, to provide its majors with a strong, basic undergraduate physics/astronomy education that will serve them whether they pursue an advanced degree in physics, a professional career in medicine or dentistry, a career in industry or in science education. Second, to provide excellent instruction in introductory physics and astronomy to non-majors. Third, to conduct original research in physics and astronomy that is recognized at regional, national, and international levels. Fourth, to foster an interest in science in the community and the region.

Structure

Department of Biology

In today's world, studies in Biology are becoming increasingly important. Georgia Southern University's Biology program prepares students for careers as professional biologists in a wide variety of fields. Southeast Georgia is a biologically rich and ecologically diverse area that encompasses coastline, wetlands, woodlands, and cities. Consistent with the mission of the University, the Biology Department seeks to expand horizons through outreach, preserve distinctive cultural and natural legacies, and maintain the integrity of South Georgia's environment.

Department of Chemistry and Biochemistry

The Department of Chemistry offers a well-balanced program for the education of its students. To prepare them for their professional careers, the Department is committed to providing quality teaching and research experiences emphasizing critical and independent thought. The curriculum provides strong innovative instruction in the theory and practice of the chemical sciences. It is designed to introduce students to modern laboratory methods and technology using state-of-the-art scientific equipment. The faculty is committed to providing an environment that addresses the individual needs of each student and encourages them to develop their potential through life-long learning and to be responsible members of their profession and community.

Department of Geology and Geography

The Department of Geology and Geography offers a balance of teaching, research, and service to the region served by the University, and beyond. Areas of focus among geology faculty include igneous and metamorphic petrology, paleontology, sedimentology, structural geology, hydrogeology, coastal geology, environmental geology, geoscience education, and natural history of the Coastal Plain. Geography faculty interests include climatology, geomorphology, geospatial analysis, economic geography, health geography, cultural geography, ecohydrology, hazards, and biogeography. Both programs emphasize the application of Geographic Information Science.

Department of Mathematical Sciences

The Department of Mathematical Sciences offers programs of study for students interested in mathematics, mathematics education or statistics. The department is dedicated to providing students with excellent instruction that incorporates innovative instructional techniques and technologies. In their roles as teacher-scholars, the faculty maintains consistent and significant productivity, recognized at regional, national, and international levels, in basic research, applications, and pedagogy. The department is strengthened by the extensive service activities of the faculty on campus and in the community as well as through high-profile service to the profession. In addition, the department provides many areas for student involvement, including an active student organization and student competition teams.

Department of Military Science

The Georgia Southern University Military Science Department is charged with managing the Army's Reserve Officer Training Corps (ROTC) program on campus. Army ROTC provides college-trained officers for the U.S. Army, the Army National Guard, and the U.S. Army Reserve. It does this through a combination of college courses in military science and summer training sessions. The Professor of Military Science at Georgia Southern also administers the programs at Armstrong Atlantic State University, Savannah State University and Savannah College of Art and Design.

Department of Physics and Astronomy

The mission of the Department of Physics at Georgia Southern University is four-fold. First, to provide its majors with a strong, basic undergraduate physics/astronomy education that will serve them whether they pursue an advanced degree in physics, a professional career in medicine or dentistry, a career in industry or in science education. Second, to provide excellent instruction in introductory physics and astronomy to non-majors. Third, to conduct original research in physics and astronomy that is recognized at regional, national, and international levels. Fourth, to foster an interest in science in the community and the region.

James H. Oliver, Jr., Institute for Coastal Plain Science

The Institute for Coastal Plain Science (ICPS) is an interdepartmental organization that provides an identity to an area of exceptional research and teaching strength. Members of the ICPS include faculty and students from several departments including biology, chemistry, geology and geography, civil engineering, and environmental health sciences. It also has three full-time scientists and two support personnel. The mission of the ICPS is to promote, in coordination with public and private partnerships, interdisciplinary research and education directed toward understanding the physical and biological resources occurring below the Fall Line and their sustainable use and management. Membership in the ICPS is open to any researchers with a focus on this geographic region. The ICPS also assists with management of the several natural history collections on campus and is the primary home of the U.S. National Tick Collection.

Sustainable Aquaponics Research Center (SARC)

The Sustainable Aquaponics Research Center (SARC) is a joint venture between Georgia Southern University and the FORAM Foundation. Our aquaponics system is located in an approximately 4100 square foot greenhouse, on the Armstrong campus, that supports student and faculty research in areas of Biology, Chemistry, Economics and Engineering.

The SARC facility is a state of the art system designed to research the economic and biological sustainability of aquaponics systems. SARC has four independent recirculating systems, each containing 900 gallon tanks capable of holding over 100 mature tilapia (1-2 lbs/each) and 224 square foot runways for growing plants. This proprietary system was uniquely built to conduct controlled scientific research. This allows the center to develop targeted experiments with the goal of improving the economic viability of large-scale aquaponics as a means of sustainable food growth requiring less resources and space.

Botanic Garden

Located on 11 acres near the southeast end of the Statesboro campus, the Garden celebrates the natural history and culture of the southeastern coastal plain. The Garden features a growing collection of native and heritage plants including 270 taxa and 20 of the state's protected plants.

The Garden offers woodland trails, wetlands, landscape gardens of coastal plain natives, a native azalea collection, an arboretum, a vegetable garden, a complex of early 20th century farm buildings, Rural Life Museum, the Whelchel Camellia Garden, and more. As a research and educational resource for faculty and students, the Garden provides undergraduate and graduate internships and hands-on study opportunities. Workshops, tours, school field trips, special events, and plant sales are some of the Garden's public outreach programs.

Center for Wildlife Education and Lamar Q Ball, Jr Raptor Center

The Center for Wildlife Education and The Lamar Q Ball, Jr. Raptor Center strives to provide quality environmental education for visitors of all ages. The Center exists to support Georgia Southern University in its environmental education programs, as well as to provide wildlife encounters for the school children and citizens of this region. All species of native Georgia fauna are within the scope of the Center's endeavors. The critical role of humans in the environment is the unifying theme for its programs.

Graduate Admissions and Aid

The College of Graduate Studies invites applications from qualified applicants from all cultural, racial, religious and ethnic groups. Admissions standards are designed to identify students whose academic backgrounds indicate they are capable of successfully completing graduate study at Georgia Southern University. (See Equal Opportunity Policy (p. 545) statement)

Applications for admission may be submitted online at <http://cogs.georgiasouthern.edu/admission>. Applications and all supporting documents must be submitted prior to the application deadline.

Normally, all applicants who have applied by the application deadline for a specific semester will be considered for admission. However, the University reserves the right to stop accepting applications at any time. Therefore, students are encouraged to apply well in advance of the application deadline. Not all graduate programs have the same application deadlines and some programs do not admit students every semester.

The College of Graduate Studies reserves the right to require additional indicators demonstrating the applicant's ability to successfully complete graduate study prior to rendering an admission decision.

- Admission Requirements (p. 242)
 - Admission by Appeal (p. 242)
 - Graduate Admission Classification (p. 242)
 - Graduate Transient Admission (p. 243)
 - Special Admission for Students Age 62 and Older (p. 243)
- Graduate Assistantships (p. 244)
- Graduate Full-Time Status Exception (p. 246)
- How to Apply (p. 247)
- International Students (p. 248)
- Other Outside Sources of Financial Aid (p. 249)
- Transfer Credit (p. 249)

Admission Requirements

In general, all applicants must hold at least a baccalaureate degree or the equivalent from a regionally accredited U.S. college or university or a degree from a non-U.S. institution of higher education that is judged equivalent to a U.S. baccalaureate degree by the College of Graduate Studies (COGS). International applicants who have graduated from a college or university that is a member of the Bologna Project will be considered for admission to a graduate degree program.

Any applicant who seeks admission to a graduate degree program is said to be applying as a graduate degree-seeking student. All other graduate applicants are said to be applying as graduate non-degree-seeking students.

Admission is granted for a specific semester and is validated by registration for that semester. Applicants wishing to defer admission to a subsequent semester may request a one-time deferral from the Office of Graduate Admissions as long as the request occurs before the start of the original semester of matriculation.

Applicants must be admitted to COGS before they are eligible to register for classes. Only students formally admitted to COGS are eligible to enroll in graduate courses (courses numbered 5000G, 6000, 7000, 8000 and 9000). Official admission acceptance is conveyed to the applicant in a formal electronic letter issued by the College of Graduate Studies.

Minimum Admission Requirements for a Graduate Degree or Certificate Program

Achievement of the minimum admission requirements of the College of Graduate Studies does not guarantee admission to a graduate degree program. A student who is admitted to one graduate program is not guaranteed admission to any other graduate degree program at any time in the future.

Admission to a graduate program is competitive and qualified applicants may be denied admission depending on a wide variety of programmatic variables. To ensure the best possible opportunity for admission, each applicant is strongly encouraged to review the specific admission requirements and application procedures listed in this catalog for the specific program of interest. Typically, review of an application cannot begin until all application documents are received, including those that are specific to a program. Applicants can check the status of their application and the receipt of application documents by visiting the website (<http://cogs.georgiasouthern.edu/admission/>) of Graduate Admissions.

Graduate Admission Test Score Requirements

Depending on the graduate program for which the student is applying, one of the following standardized admission tests will be required: GMAT, GRE, MAT or GACE. Standardized admission tests are listed among each program's itemized list of requirements for admission. To determine which admission test is required for each program, review the admission requirements on the program's webpage. Test scores must be sent from the testing agency directly to Graduate Admissions. Further information on test dates and fees may be obtained from:

Office of Testing Services (<http://studentsupport.georgiasouthern.edu/asc/testing/>)
 Post Office Box 8132
 Georgia Southern University
 Statesboro, GA 30460-8067
 (912) 478-5415

Degree Admission Based Upon Exceptional Qualifications

Applicants with exceptional experience and/or academic qualifications may be granted degree admission to the College of Graduate Studies without the submission of admission test scores. Admission approval may be granted by the Dean of Graduate Studies following a review of the recommendation by the respective Graduate Program Director and Department Chair.

Admission by Appeal

Applicants who believe they were unfairly or arbitrarily denied admission may appeal the admission decision to the College of Graduate Studies. The student will be required to provide additional information in support of the appeal. The request for an appeal must be submitted in writing to Graduate Admissions. The Dean of Graduate Studies will make the final decision on an appeal.

Graduate Admission Classification

A prospective student who plans to take additional course work beyond the baccalaureate degree must apply to the COGS and be admitted through either Degree Admission or Non-Degree Admission.

Degree Admission

Students who are admitted to the COGS with the expressed intention of following a program leading to a graduate degree are classified as degree-seeking students. When admitted as a degree-seeking student, the applicant will be placed in one of the following categories:

1. **Regular** - Meets all requirements for unqualified admission and has been recommended by the college, department or program in which he/she proposes to study, and approved by the COGS.
2. **Provisional** - Does not satisfy the full admission requirements. Applicants granted Provisional admission are required to earn grades of "B" or better in their first nine (9) hours of graduate credit taken at Georgia Southern University under this admission category. Failure to satisfy the conditions of provisional admission will result in exclusion from the degree program. A student admitted in this category will be reclassified to Regular admission when the conditions have been met. A Provisional student may enroll in graduate courses and such courses may be counted in a degree program when the student has been reclassified as a Regular student. Only credit earned in graduate courses at Georgia Southern University may be used to satisfy Provisional admission requirements. A student excluded from a graduate degree program for failure to meet the conditions of provisional admission may not be readmitted to the COGS under non-degree admission. There is no provisional admission to Doctoral programs. Applicants with Provisional admission are not eligible for graduate assistantship positions.

Non-Degree Admission

An applicant may be admitted to the COGS as a non-degree student to earn credit in graduate courses **without** working toward a degree. Students who are admitted in a non-degree category may later apply to a degree program. Upon the advisor's recommendation, non-degree graduate courses may be included in the program of study should the student gain reclassification as a Regular student. A student may be admitted to the COGS in one of the following non-degree admission categories:

1. **Limited** - A student whose file is incomplete because all required application materials have not been received in the Office of Graduate Admissions. Enrollment in the Non-Degree Limited category is limited to a maximum of nine (9) credit hours in graduate courses in any seven contiguous years. A student may count a limited number of credit hours earned under non-degree admission toward graduate degree program requirements if recommended by the degree Graduate Program Director and approved by the Dean of Graduate Studies. Students enrolled under this admission category are not eligible for graduate assistant positions nor for financial aid.
2. **Enrichment** - A student who holds an undergraduate or graduate degree and desires to take courses for personal or professional improvement. Enrollment in the Non-degree Enrichment category is limited to 18 credit hours unless otherwise stated by the department. Certain Departments may limit the number of credit hours earned under this non-degree admission category that may count toward graduate degree requirements to less than 18 credit hours. Students enrolled under this admission category are not eligible for graduate assistant positions nor for financial aid.
3. **Certificate** - A student who holds an undergraduate or graduate degree can pursue a graduate certificate program through the Non-degree Certificate admission. Enrollment in the Non-Degree Certificate category is limited to the number of credit hours required for the certificate program, typically 12-24 credit hours, in any seven continuous years unless additional credit hours are approved by the College of Graduate Studies. A student may count up to 18 credit hours earned as part of the certificate program toward graduate degree program requirements if recommended by the degree Graduate Program Director and approved by the Dean of Graduate

Studies. Students enrolled under this admission category are not eligible for graduate assistant positions nor for financial aid.

4. **Teaching/Service/Leadership Certification** - A student seeking initial certification as a P-12 educator (teaching, service or leadership certification as defined by the Georgia Professional Standards Commission) may be admitted in this category and enroll in graduate courses required for certification in any seven contiguous years. In addition, in-service teachers enrolling to meet requirements of a local board of education or the Georgia Professional Standards Commission to renew or reinstate a certificate, to certify in a new area, or to obtain an endorsement to an existing certificate may enroll in graduate courses for credit for this particular purpose through this category. Note that admission in this category and completion of a certification program does not guarantee subsequent admission to a graduate degree program; that is a separate process, and different criteria must be met. Enrollment in this category is limited to the number of credit hours required for certification and/or endorsement not to exceed 18 credit hours. A student may count the credit hours earned as part of the certification/endorsement program(s) toward graduate degree program requirements if recommended by the degree Graduate Program Director and approved by the Dean of Graduate Studies. (Note that some certification fields require completion of a M.Ed. and/or Ed.S. degree; refer to the admission requirements or Graduate Program Director for information on the specific field of interest.) Students enrolled under this admission category are not eligible for graduate assistant positions.

Graduate Transient Admission

Students who are currently enrolled in a graduate program at another university may take courses at Georgia Southern University as a transient student. To be admitted as a transient student, the student must submit an application (selecting "Graduate Transient" status), and a certificate of good standing from the appropriate official from the home institution or a current transcript. A student is admitted under this classification for one semester only and must be readmitted under this classification each subsequent semester in transient status.

Special Admission for Students Age 62 and Older

Georgia citizens who are 62 years of age or older have the option, as granted by Amendment 23 of the Georgia Constitution, of enrolling in the University without the payment of fees subject to the following conditions:

- Must be a legal resident of Georgia;
- Must be 62 years of age or older and present proof of age at the time of registration;
- Must enroll as a regular student to audit or take courses offered for resident credit; and
- Must pay for supplies, laboratory or fees.

An eligible student may petition for the Senior Citizen Fee Waiver by visiting the website below website:

<https://em.georgiasouthern.edu/registrar/students/petitionforinstatetuitionfeewaivers/>

Individuals who do not qualify as mature students (see below) must also satisfy the following:

- Must meet all Georgia Southern University and University System of Georgia graduate admission requirements;
- The applicant must submit all college or university transcripts;

- If a course of study is pursued to degree, all institutional and system degree requirements must be met.

Graduate Assistantships

Graduate assistantships are essential to the success of the graduate programs at Georgia Southern University. The assistantship not only enables the student to complete the program of study in a timely fashion, but also affords the opportunity to be involved in full-time study at the University. Graduate assistants enliven the academic environment of the university by adding to the community of scholars within the institution. A graduate assistant is a graduate student who is appointed to a Teaching Assistantship, Research Assistantship, Graduate Assistantship, or Doctoral Fellowship and receives a stipend and a tuition waiver.

Definition

A graduate assistant is a graduate student employee appointed to the position title of Teaching Assistant (TA1 or TA2), Research Assistant (RA), Lab Assistant (LA1 or LA2) or Graduate Assistant (GA). These are defined according to the emphasis placed on the student employee's teaching, research, or general experience. Appointments and initial stipend are determined on the basis of academic background, prior experience, scholarship, and general potential. All graduate assistants receive a tuition waiver of the standard in-state and out-of-state tuition but must pay a reduced matriculation fee of \$25 per semester along with all assessed university fees. Some programs are approved to charge a premium tuition rate that is not covered by the standard tuition waiver.

Financial Aid and Veteran Benefits

To qualify as a full-time graduate student for financial aid and veteran benefits, a student must be enrolled in the required number of credit hours set by regulations governing financial aid or veteran benefits. Students should contact the Financial Aid Office or the Office of Veterans Affairs in the Office of the Registrar for information about minimum enrollment requirements.

Work Study

Graduate students may qualify for work-study. Applicants must submit the application for work-study to the Office of Financial Aid.

Graduate Teaching Assistant, Level 1 (TA1)

A Graduate Teaching Assistant (TA1) is a graduate student who works under the direct supervision of regular faculty members and may be assigned only to duties related to instruction. A TA1 may not have primary responsibility for a course or serve as the instructor of record, but may assist in the instructional process by serving as a discussion leader in breakout sections, grade papers, proctor exams, or assist the primary instructor of record in other ways. The department chair and graduate program director shall determine that the credentials of a student assigned as TA1 qualify the individual to assist in instruction activities.

Graduate Teaching Assistant, Level 2 (TA2)

A Graduate Teaching Assistant (TA2) is an advanced graduate student who is given primary responsibility for teaching courses and may have autonomy for assigning grades and providing laboratory instruction/ setup as part of a regularly schedule course. A TA2 must be under the supervision of a Georgia Southern faculty member that teaches in the discipline, but the student may be listed as instructor of record. A TA2 must have completed 18 credit hours of graduate course credit hour in the discipline and must have completed training, which consists of

centralized training offered by the Center for Teaching Excellence (CTE) or decentralized training within the academic program. Decentralized training must have prior approval from COGS, CTE and the Office of the Provost. TA2s may also be required to participate in additional in-service training within their College or Department, as determined by their Program. The department chair and graduate program director shall determine that the credentials of a student assigned as TA2 qualify the individual to undertake the assignment of instruction and must submit all required documentation to the Office of the Provost.

Graduate Research Assistant (RA)

Graduate Research Assistant (RA) is a graduate student whose responsibilities are other than teaching. An RA position is one that allows a graduate student to conduct research of a scholarly nature, normally under faculty supervision. Services provided by a research assistant may include, but is not limited to, the production and analysis of data, the development of theoretical analyses and models, the production or publication of scholarly journals and research reports to develop his or her own research agenda and for the benefit of the University, faculty or academic staff supervisor, or granting agency.

Lab Assistants, Level 1 (LA1)

Graduate students appointed to the position of LA1 may not have primary responsibility for a lab or serve as the instructor of record, but may assist in the instructional process by assisting in a lab or assist the primary instructor of record in other ways. The department chair and graduate program director shall determine that the credentials of a student assigned as LA1 qualify the individual to assist in instruction activities.

Lab Assistants, Level 2 (LA2)

Graduate students appointed to the position of LA2 will have completed more than 18 hours of graduate course credit in the appropriate discipline and will have completed centralized training facilitated by the College of Graduate Studies. LA2s may have primary instructional responsibility for a lab and may have autonomy for teaching, assigning grades, and providing laboratory instruction/setup as part of a regularly scheduled course. LA2s must be under the supervision of a Georgia Southern faculty member that teaches in the discipline. The department chair and graduate program director shall determine that the credentials of a student assigned as LA2 qualify the individual to undertake the assignment of instruction.

Graduate Assistant (GA)

A Graduate Assistant (GA) is a graduate student who provides general administrative support to academic and administrative units within the University. The assigned duties to the GA should be relevant to the graduate program and the professional goals of the student whenever possible.

Graduate assistants, regardless of their functional classification as TAs, RAs or GAs, are to work under the supervision of faculty who are experienced and knowledgeable in their field. Supervision of graduate assistants includes providing appropriate training prior to and during the assistants' assumption of responsibility for assigned tasks. Academic and non-academic units of the University may employ graduate assistants. Funding for the graduate assistantship may come from allocated funds (provided to the unit from the College of Graduate Studies for the purpose of assistantship support) or from unallocated funds (provided separately by the department or other budgetary unit).

Doctoral Fellowships (Assistantship)

A limited number of Doctoral Graduate Assistantships may be awarded by the respective colleges/department that house doctoral programs. Doctoral Graduate Assistantships are awarded on a competitive basis

by the college/department and may include an annual appointment as determined by the college.

Eligibility

Assistantships may only be awarded to graduate students who have unqualified admission to the College of Graduate Studies under the "Regular" (not Provisional) classification to a degree seeking program. Qualifications to hold a Graduate assistantship include:

- Admission to COGS under the "Regular" degree admission classification,
- Enrolled full-time as defined by the program, and
- A cumulative GSU graduate GPA of at least 3.0 (3.25 for Ed.D. Curriculum Studies or 3.50 for Ed.D. Educational Leadership students) in all coursework.

Students enrolled in certificate or endorsement only programs are not eligible to hold an Assistantship.

ASSISTANTSHIPS FOR FULLY-ONLINE STUDENTS

At the discretion of the dean of the respective college, a limited number of assistantships may be provided to students enrolled in programs or classes that are delivered fully-online AND where the student will be employed as a TA, RA or GA in the home college/department of the graduate program. In cases where the employing unit and the academic unit are NOT one and the same, the employing unit MUST seek prior approval from the dean of the academic unit in advance of offering the student an assistantship. To be eligible, fully-online students must be able to meet the same eligibility requirements and are required to fulfill the same on-campus work schedule as a traditional graduate assistant. As such, it is anticipated that fully-online graduate assistants will reside within a reasonable distance to the University.

Students who are enrolled in Georgia On My Line Programs (GOML) are not eligible to hold an Assistantship.

Credit Requirements

Graduate Assistants must be registered for a minimum of 9 credits of course work for Fall or Spring semester, within the program of study throughout the period of the assistantship. The only exceptions are:

- Master of Science in Nursing students must register for a minimum of 5 credits to be eligible.
- Doctor of Nursing Practice students must register for a minimum of 5 credits to be eligible.

Graduate assistants may be approved to take less than the minimum required course load (as little as one hour) given that the graduate assistant is in the last semester of coursework, have completed the graduation application, and have a cleared DegreeWorks audit on file. This policy may only be applied once.

International Students working as Graduate Assistants must also have this reduced course load authorized by a DSO in the Office of International Programs & Services. The Authorized Reduced Course Load Form must be completed by the student's advisor and submitted to IPS Form to the beginning of the final term of study.

Summer Assistantships

A student granted an assistantship during the summer semester must be enrolled during the summer to be eligible to hold an assistantship. Summer Term A or Term B require a minimum of 3 credit hours. Summer Long Term or Term A and B together require a minimum of 6 credit hours,

except Master of Science and Nursing and Doctor of Nursing Practice which requires a minimum of 5 credit hours.

Graduate Assistantship Appointment

The head of the academic unit makes appointments of graduate assistants. The dean of the college in which the academic unit is located and the Director of Graduate Studies must approve appointments subsequently. The head of the academic unit offering the assistantship is responsible for making the offer of appointment in an official letter. At the time assistantship offers are accepted, the heads of the appointing units should provide recipients with a copy of any applicable departmental policies relating to graduate assistants.

All graduate assistants must be registered for classes prior to the first day of classes for each semester. A graduate assistant who withdraws or drops a course resulting in the registration total to fall below full-time will lose the assistantship, and the student will be required to pay full tuition and fees for the remaining number of enrolled credit hours. Graduate assistants are not permitted to enroll in courses for which they are assigned assistantship responsibilities and may require special permission to enroll in courses that are not part of their program of study.

Workload and Responsibilities

A normal workload for a full time graduate assistant is twenty (20) hours per week. Federal law generally limits the number of hours that international students can work on campus to twenty (20) hours per week in the fall and spring semesters. The Director of Graduate Studies may grant exceptions to this limitation. The standard starting date for a graduate assistant shall be one week before the first day of classes and the standard ending date shall be the last day of final exams. Students on assistantships may not otherwise be employed at Georgia Southern University.

Compensation

The stipend for a full time graduate assistantship is determined by the department/unit awarding the assistantship, with the minimum amount being determined by the College of Graduate Studies. A graduate student to whom an assistantship is awarded will receive a waiver of standard tuition (in- and out-of-state if student is classified as a non-resident). A graduate assistant is required to pay a \$25 matriculation fee each semester of enrollment while holding an assistantship. Graduate assistants are responsible for paying all University Fees including the Institutional Fee, Health Insurance Premium, and the Technology Fee each semester.

To appoint a graduate assistant, the unit must have the necessary funds to cover the assistantship stipend and must meet the qualification to conduct the assistantship activities prescribed by the department.

Tuition Waivers on Sponsored Programs

If funding for an assistantship is derived from an external source (e.g. sponsored programs), a tuition waiver is not granted and either the student or the external agency is responsible for full tuition, including any fees and premium tuition.

In some cases, a tuition waiver for RAs may be provided, and in rare cases TAs, receiving full stipend supported from funding received by the Office of Research Services and Sponsored Programs. Graduate students supported by sponsored programs must meet and maintain enrollment and eligibility requirements and work only on tasks towards the sponsored program. If modifications to the sponsored program exclude the graduate assistant from working on the project, the principal investigator is responsible for issuing a termination notice for the position.

Graduate Assistant Health Insurance Requirement

All graduate students receiving a tuition waiver as a result of a graduate assistantship or doctoral fellowship are required to have health insurance that is provided through the University System of Georgia Board of Regents approved provider.

Graduate Assistant Appointment Duration

In most cases, assistantship appointments should be made for an academic or fiscal year so that employing units and assistants can plan effectively. In some instances, appointments may be made for one semester only. To be eligible for reappointment, the assistant must have maintained eligibility and must have received acceptable performance evaluations from their immediate supervisor.

Deadline

March 1 is the deadline for the receipt of graduate assistantship applications by the College of Graduate Studies to receive priority consideration for employment during the upcoming fall semester. A student's acceptance of a graduate assistantship for the next academic year constitutes an agreement, which the College of Graduate Studies expects the student to honor. If the student accepts the offer and subsequently desires to withdraw, the student may submit, in writing, a resignation of the appointment within two weeks after accepting the offer. However, an acceptance given or left in force after this date prevents the student from accepting another offer without first obtaining a written release from the College of Graduate Studies.

Termination and Resignation

A graduate assistant will be ineligible to continue and/or will be terminated if any of the following conditions occur:

- Placed on academic probation.
- The cumulative graduate GPA falls below 3.0 (3.25 for Ed.D. Curriculum Studies students; 3.50 for Ed.D. Educational Leadership students).
- An "I" grade has not been cleared by the end of the next semester after which it was recorded. This includes summer.
- The graduate assistant does not meet the mandatory insurance policy.
- Full-time enrollment is not maintained.
- Assistantship responsibilities are not performed in a satisfactory manner.
- Loss of unit or department funding.

If a graduate assistantship is terminated or resigns, the student loses the assistantship tuition waiver and is assessed the full tuition and fee amount for the term.

All graduate assistants should receive prior written notice of termination, with a minimum expectation of two weeks' notice. Failure to satisfactorily perform work assignments in particular needs to be documented in writing prior to the dismissal notification. Additionally, the University reserves the right to terminate a graduate assistant if, in the sole discretion of the Director of Graduate Studies, the circumstances of a particular situation warrant such action.

The College of Graduate Studies and the department/unit to which the student is assigned have the joint responsibility to ensure that appropriate procedures are followed before termination of the assistantship. A student choosing to resign or terminate employment must submit a letter of resignation to the Director of Graduate Studies through the Department/Division Chair of the employing unit.

Graduate Assistant Rights

Graduate assistants are granted rights as outlined in the American Association of University Professors' Statement on Graduate Students. Graduate assistants must be notified in writing of all decisions that affect their status as temporary student employees. They will be given advanced notice of evaluation procedures and must receive notice of reappointment procedures in time to permit preparation of their assistantship applications. All graduate assistants, regardless of classification as RAs, TAs or GAs, have access to appeal and grievance procedures operative to the University. Appeals resulting from academic decisions are usually directed to the unit responsible for the decision. An unfavorable ruling may be appealed to successive levels in the University and ultimately to the Board of Regents of the University System of Georgia. Information on appeals of academic matters may be obtained from the College of Graduate Studies.

Complaints of discrimination based on race, color, religion, national origin, sex, age, handicap, or veteran's status may be heard through the University's Grievance Procedures. Under these procedures, a grievance panel will also hear complaints that allege deviation from official University policy.

Graduate Full-Time Status Exception

Requesting a Full-Time Status Exception pertains to higher contact hours for programs that are required to include a, practicum, clinical rotation or extended internship. Any program wishing to apply for an exception to the Full-Time Status criteria outlined in the Graduate Catalog must apply through the process outlined below. It is important to note the dates of the Enrollment Management Council (EMC) meetings, and the Graduate Curriculum Committee deadlines for catalog changes when drafting the Full-Time Status Exception proposal. The exception request will follow the curriculum process with the additional review from the Enrollment Management Council. Program faculty are invited to attend the Enrollment Management Council meeting if questions arise when the program proposal is reviewed.

Exception Approval Process

- (1) Department Curriculum Committee
- (2) College Curriculum Committee
- (3) Enrollment Management Council
- (4) Graduate Curriculum Committee

In regards to this Exception proposal, two questions will be added on the Program Change form available through Courseleaf. By answering 'Yes' to one of the questions, the proposal will be sent to EMC for review:

- (1) Are program capacity limitations involved in the approval?
- (2) If the program wishes to request a full-time status exception?

Full-Time Status Exception proposals must include:

- A justification for the exception (why is it necessary?)
- A degree map for the program that includes total credit hours and contact hours per semester
- If a higher number of contact hours is a part of the justification, an explanation for the need for these additional contact hours must be included (i.e. accreditation, licensure, or certification requirements)
- The number of students impacted by the proposed exception
- Impact analysis and accompanying mitigation strategies on the following:
 - Student progression and graduation
 - Student debt load
- Graduate assistantship availability.

Exception requests that primarily use the following justifications are more likely to be denied:

- Graduate assistants (requiring nine credit hours) being out of sync with a program cohort model based on six credit hours per semester
- Lowering the full time status requirement only in order for students to be eligible for federal financial aid with fewer credit hours
- Graduate programs degree maps intentionally structured where students are expected to take less than nine credit hours and are within normal contact hours (i.e. cohort model programs for working professionals)
- Graduate programs degree maps intentionally structured where students take fewer credit hours in the final semester, creating federal financial aid eligibility issues during that final semester.

How to Apply

The application for admission may be accessed from the COGS web site (<http://cogs.georgiasouthern.edu/admission/>). Departments and schools in which graduate degree programs are offered set requirements to complete an application. All application documents, including official test score reports, letters of recommendation and other required supporting documents, should be received in the Office of Graduate Admissions by the stated application dates for the application to receive admission review. A transcript is required from each degree granting school. In addition, if the applicant has earned any graduate credit regardless of receiving a graduate degree, all transcripts from each institution where graduate credit was earned are required for admission review. Some graduate programs may require more comprehensive transcript requirements. For program specific requirements, refer to the program admission page on the COGS website or the program page in the Graduate Catalog. Transcripts of any coursework completed in residence at Georgia Southern will be obtained by the Graduate College. Unofficial copies are allowed for application review and if the applicant is admitted official copies of transcripts must be submitted prior to the first day of class of the admission term. All application documents become the property of Georgia Southern University and may not be forwarded to a third party or returned to the applicant. The applicant must indicate if he/she is applying for a graduate degree program, certificate program, non-degree or transient admission, and must indicate a specific graduate major area of study that is offered at Georgia Southern University.

Application documents are electronically available to the academic departments for their review and recommendation.

Application Deadlines - College of Graduate Studies

Application deadlines vary by program and are specific to a given semester to which each program admits applicants. Application deadlines are also subject to change. Therefore, applicants are encouraged to check the application deadline (<http://cogs.georgiasouthern.edu/admission/GraduatePrograms/gradprograms.php>) for the program in which they are interested. All items required for admission must be received by the published deadline. International applicants should apply significantly in advance of the deadline to allow time for the arrival of any required admission items via international mail. For those programs with rolling admission, in general, priority deadlines are specified below:

U.S. Citizens/Naturalized Citizens

Fall Semester

March 1 (Priority)

July 1 (Final Deadline)

Spring Semester

October 1 (Priority)

November 15 (Final Deadline)

Summer Semester

March 15 (Priority)

April 1 (Final Deadline)

International Students

Fall Semester

March 1 (Priority)

June 1 (Final Deadline)

Spring Semester

October 1 (Final Deadline)

Summer Semester

February 1 (Final Deadline)

Admission to the College of Graduate Studies is competitive. Applicants are encouraged to submit application materials by the Priority Deadline. Priority is for students seeking financial aid, scholarships, and assistantships. Applications received after the Final Deadline may be considered by the Program Directors on a case-by-case basis.

Graduate Application Process

Applicants are responsible for submitting all materials required for admission. These items include, but are not limited to, the following: application for admission, application-processing fee, transcripts, standardized exam scores, letters of recommendation, and any supplemental material required by the department and/or program. While certification of finances forms (international applicants only) may be submitted during the application process, the documents are forwarded directly to the Center for International Studies and are not used to determine academic admissibility. All application materials, unless otherwise specified, should be provided electronically at the time of submitting the on-line application for admission to the Office of Graduate Admissions. Only those application materials required by specific programs not available for electronic submission can be submitted in hard-copy format to the Office of Graduate Admissions or to the academic program. These items must be received prior to the deadline.

An applicant wishing to defer an application to a subsequent semester may submit a one-time request to the Office of Graduate Admissions, as long as the request occurs prior to the start of the original semester of matriculation. After the original semester of matriculation has begun, the applicant must submit a new application and application fee to be considered for admission to a future semester. Deferred applications are referred to the department for reconsideration and a new admissions recommendation.

The College of Graduate Studies will refuse admission to applicants whose files are incomplete after the beginning of the semester of expected matriculation and when the applicants have not requested deferrals to future semesters. The application and supporting documents become the property of the University and cannot be returned or forwarded elsewhere.

Domestic (U.S. Citizens and Resident Alien) Applicants

Must fulfill the following requirements.

- Submit a completed on-line Graduate Application for Admission Form.
- Pay the \$50.00 non-refundable application fee (subject to change).
- Submit official transcripts from each college or university previously attended. Transcripts must be designated as official and sent directly from the institution(s) previously attended to the Office of Graduate Admissions. Transcripts marked "Issued to Student" will not be accepted as official. Applicants who have attended Georgia Southern University are not required to submit official Georgia Southern transcripts. Applicants who attended foreign institutions not regionally accredited by a US regional accrediting body are required to have transcripts evaluated by a member of the National Association of Credential Evaluations Services, Inc. (NACES).
- Provide official test scores as required for the selected program. Scores must be within the last five years (two years for the TOEFL/IELTS) and sent directly from the testing agency to the Office of Graduate Admissions.
- Submit the Certificate of Immunization Form. **(Not required for applicants in fully on-line programs.)** This form should be completed and sent directly to the Office of Health Services.
- Provide other documents as required by the department, college, or program. These may include letters of reference, personal statement, or letter of intent. See <http://cogs.georgiasouthern.edu/> for information on program specific requirements.
- Applicants who are applying for a graduate assistantship must complete the Graduate Assistantship Application.
- Other documents as required by the department, college, or program. These may include letters of reference, personal statement, or letter of intent. See <http://cogs.georgiasouthern.edu> for information on program specific requirements.
- Applicants who are applying for a graduate assistantship must complete the Graduate Assistantship Application.

International applicants admitted must submit the completed Certificate of Immunization Form to the Health Services Office to be eligible to register for classes.

Credentials evaluated by any U.S. agency that is a member of the National Association of Credential Evaluation Services, Inc. (NACES) may be presented. The evaluation must be sent directly from the agency to the Office of Graduate Admissions. Three such agencies are:

Joseph Silny and Associates, Inc.
International Education Consultants
7101 WS 102 Avenue
Miami, FL 33173
(305) 273-1616
Fax (305) 273-1338
Email: info@jsilny.com
<http://www.jsilny.com>

World Education Services
P.O. Box 5087
Bowling Green Station
New York, NY 10274-5087
(212) 966-6311
Fax: (212) 739-6100
Email: INFO@WES.ORG
<http://www.wes.org/>

Lisano International
PO Box 407
Auburn, AL 36831-0407
(334) 745-0425
Fax: (334) 745-0425
Email: LisanoINTL@AOL.com
<http://www.LISANO-Intl.com>

International Graduate Applicants

All international students admitted to the College of Graduate Studies must demonstrate the same level of achievement as U.S. students. They must have an outstanding undergraduate record, have the demonstrated ability to do graduate work, and give evidence of language proficiency sufficient for the pursuit of a graduate degree. International applicants must qualify for "Regular" admission and may not be granted "Provisional" admission. International applicants are not granted non-degree admission status unless holding an immigration status that permits non-degree admission. Questions about the qualifications of international students should be directed to the College of Graduate Studies.

International applicants for admission to the COGS must submit the following:

- Completed on-line Graduate Admission Form.
- \$50.00 non-refundable application fee (subject to change).
- Certified copy of diploma and certified English translation of diploma. This must be sent directly from the institution(s) previously attended to the Office of Graduate Admissions.
- Certified original and English translations of transcripts. Transcripts designated as official must be sent directly from the institution in a sealed envelope to the Office of Graduate Admissions. Transcripts marked "Issued to Student" will not be accepted as official. Applicants who have attended Georgia Southern University are not required to submit official Georgia Southern transcripts. Applicants are required to have transcripts evaluated by a member of the National Association of Credential Evaluations Services, Inc. [NACES]).
- Official test scores as required for the selected program. Scores must be current, within the last five years, and sent directly from the testing agency to the Office of Graduate Admissions.
- Official TOEFL or IELTS scores not more than two years old.
- SEVIS Data Form. This form should be completed and sent directly to the Center for International Studies.
- Certified Bank Statement (not more than six [6] months old) confirming finances. (See page 1 of the SEVIS Data Form for specifications.) This statement should be completed and sent directly to the Center for International Studies.

International Students

Course Load - International Graduate Students

US immigration law requires international students on a student visa to participate in a full course of study which consists of nine (9) credit hours for most majors. In addition, at least six (6) of those credit hours must require physical presence in a classroom or other designated location. Failure to maintain full-time study will result in the loss of immigration status, and the student may be required to leave the United States. Questions regarding the effect of course load upon immigration status should be directed to immigration advisors in the Office of International Student Admissions and Programs.

Financial Assistance - International Graduate Students

Graduate Assistantship - International students may apply for Graduate Assistantships.

International Diversity Scholarship - Georgia Southern University also offers a limited number of International Diversity Scholarships (Out-of-country tuition waivers) to exceptional international graduate students. The

International Diversity Scholarship will waive the assessment of the non-resident (out-of-state) tuition but students will be assessed in-state tuition.

Visa Information - International Students

The University will issue an I-20 or DS-2019, whichever is appropriate, after the applicant has been fully admitted and all required financial documentation has been submitted. These documents permit the applicant to apply for the appropriate student visa from a U.S. embassy if outside the United States or transfer schools or apply for a change of status if within the United States. Note that immigration law restricts the time between completing a degree or practical/academic training and having a new I-20 or DS-2019 issued to 60 and 30 days respectively and classes must start within five months.

International Graduate Student Advisor

The Office of International Student Admissions and Programs at Georgia Southern has experienced and qualified advisors available to help international students with maintaining immigration status and becoming oriented to campus. Advisors are available for advice and support, and a full social and cultural program is available. To help students successfully adjust, international graduate students are required to attend orientation with the Office of International Student Admissions and Programs.

Graduate Student Health Insurance

All international students are required to have adequate student health insurance as determined by Georgia Southern University. A health insurance plan is available through the University. Charges for this insurance will be on the student's invoice and collected with other University fees. Insurance for families is available at a significantly higher cost. Proof of health insurance is required before a student may register for classes.

English Proficiency for International Students

International applicants and U.S. Citizens whose native language is not English must demonstrate English proficiency. Prior to consideration for admission, international applicants whose native language is not English must take and post acceptable scores on the Test of English as a Foreign Language (TOEFL) (<http://www.ets.org/toefl/>) or the International English Language Testing System (IELTS) (<http://www.ielts.org>) unless they have received a degree from an accredited college or university in the United States, the United Kingdom, Canada (except Quebec), Australia, or New Zealand. The TOEFL and IELTS examinations are administered at various times of the year and in many centers throughout the world.

A score of at least 75 (internet-based test, IBT) or 537 (paper-based test) on the TOEFL and 6.0 on the IELTS is normally required to be considered for regular admission to the College of Graduate Studies. The official TOEFL and the official IELTS scores may not be more than two years old. Those who do not meet the minimum proficiency standard may be recommended for enrollment in University English courses or for English courses offered by the English Language Program (ELP) on campus. Successful completion of Intensive English Programs (IEPs) at other English Language Program (ELP) providers will be considered on a case-by-case basis.

Certain graduate programs may require a higher TOEFL or IELTS exam score to be considered for admission.

Other Outside Sources of Financial Aid

Many foundations, companies, and other groups have established scholarship or loan programs for use by Georgia Southern University students. To review these, access the Georgia Southern University Office of Financial Aid website here (<https://em.georgiasouthern.edu/finaid/types-of-aid/scholarships/>). Other helpful websites to use in searching for external scholarships may be found on our financial aid website under Types of Aid (<https://em.georgiasouthern.edu/finaid/types-of-aid/>).

Transfer Credit

A graduate student may transfer graduate credit from a regionally accredited institution. Additionally, graduate credit from the American Council of Education (ACE) for National Board Certification may be accepted for elective credit hour(s) in a Master's or Education Specialist's program of study. Up to nine (9)¹ transferred credit hours (unless otherwise noted by the program of study) may apply toward a Master's or Education Specialist's degree provided the following are met:

- The institution offers the graduate degree program for which the student has been admitted at Georgia Southern University. (Not required for transfer of ACE transcript credit.)
- An official transcript is sent directly to the College of Graduate Studies from the institution in which the graduate work was taken.
- The credit earned must be less than seven (7) years prior to the date of completion of the graduate degree.
- The student's advisor or major professor has to approve the transfer credit as a part of the student's approved program of study.
- A student pursuing a graduate degree at Georgia Southern University who plans to take graduate courses at another institution as a transient student must complete a Graduate Student Transient Permission Form, which must be approved by the advisor or major professor and the College of Graduate Studies prior to enrolling in the transient courses. This procedure insures that courses taken as a transient student at another institution will constitute a part of the planned program of study. Students who take courses without prior approval are doing so with the possibility that the course may not count in the degree program.
- A degree candidate may not graduate at the end of a term in which he/she is enrolled as a transient student at another institution. The student, upon request, will be furnished a statement that all requirements for the degree have been completed when the said requirements have been satisfied.
- No grade lower than a "B" in a course earned at another institution may be accepted in transfer to count toward a graduate degree at Georgia Southern University.

¹ *Each College of Education program involved in a USG franchise program will allow for additional graduate course credit hours to be received from other USG institutions involved in the respective franchise. The maximum number of transfer credits allowed will be identified by the specific program, ranging from 9 to 27 credits, and will be published in program materials.*

Graduate Student Organization

The Graduate Student Organization (GSO) is committed to representing and supporting the interests of all current and prospective graduate students at Georgia Southern University and seeks to support scholarly activities as well as promote social opportunities for the development of graduate students.

There are two sub-divisions of the GSO - Graduate Student Organization - Statesboro Campus (GSO-S) and Graduate Student Organization – Armstrong Campus (GSO-A). The members are elected by application and nomination process. The GSO Councils are the main governing bodies of the GSO and their duties include, but are not limited to, reviewing and providing decisions for grant proposals, running GSO meetings, planning and sponsoring social and professional development events for graduate students. The GSO Councils accepts grant proposals for research and conference travel to the Graduate Student Professional Development Fund each semester.

Academics

In addition to the Colleges, several other departments or agencies within Georgia Southern University enhance the academic life of the University.

- Majors and Programs (p. 251)
- Resources (p. 540)
 - Academic Success Center (p. 540)
 - Division of Continuing Education (p. 541)
 - Institutional Assessment and Accreditation (p. 541)
 - James H. Oliver, Jr., Institute for Coastal Plain Science (p. 541)
 - Military and Veteran Services (p. 542)
 - Office of Career and Professional Development (p. 542)
 - Office of Research Services and Sponsored Programs (p. 542)
 - Online Support Services (p. 543)
 - Printing & Postal Services (p. 543)
 - Regents Center for Learning Disorders (p. 544)
 - Student Accessibility Resource Center (p. 544)
 - Student Union Facilities and Event Services (p. 544)
 - Sustainable Aquaponics Research Center (p. 544)
 - The University Writing Center (p. 545)
 - Visual Art Exhibitions and Permanent Collections (p. 545)
- Policies (p. 545)
 - Academic Dishonesty (p. 546)
 - Accreditation (p. 547)
 - Auditing Courses (p. 548)
 - Class Attendance (p. 548)
 - Code of Student Conduct (p. 549)
 - Complete Withdrawal (p. 549)
 - Course Withdrawal Policy (p. 549)
 - Credit Hour Policy (p. 549)
 - DegreeWorks (p. 550)
 - Grade Point Average (p. 550)
 - Grading Systems (p. 550)
 - Institutional Testing Schedule (p. 552)
 - Military Withdrawals (p. 553)
 - Music Program (p. 553)
 - National Testing Schedule (p. 553)
 - Petition to Review/Change a Grade (p. 554)
 - Policy for Changing a Student's Final Examination (p. 554)
 - Policy for Dropping Courses (p. 554)
 - Retroactive Withdrawal (p. 555)
 - Transcripts (p. 555)
 - University Advancement (p. 555)
 - Waitlist (<http://catalog.georgiasouthern.edu/academics/policies/waitlist/>)
 - Withdrawal Hardship (p. 555)
- Faculty (p. 556)

Majors and Programs

- Accounting B.B.A.
- Accounting M.Acc.
- Accounting WebM.Acc. (The Web-Based Master of Accounting)
- Actuarial Sciences Certificates

- Adult/Gerontology Acute Care Nurse Practitioner Post-MSN Certificate
- Adult/Gerontology Primary Care Nurse Practitioner Post-MSN Certificate
- Africana Studies Interdisciplinary Concentration
- Africana Studies Interdisciplinary Minor
- Animation & New Media Minor
- Anthropology B.A.
- Anthropology Minor
- Applied Behavior Analysis Minor
- Applied Economics Certificate (Online)
- Applied Economics M.S.
- Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Non-Thesis)
- Applied Engineering M.S.A.E. (Concentration in Advanced Manufacturing Engineering) (Thesis)
- Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Non-Thesis)
- Applied Engineering M.S.A.E. (Concentration in Engineering Management) (Thesis)
- Applied Geography M.S. (Non-Thesis)
- Applied Geography M.S. (Thesis)
- Applied Linguistics Minor
- Applied Physical Science M.S.A.P.S (Professional Science Master)
- Applied Physical Science M.S.A.P.S. (Non-Thesis)
- Applied Physical Science M.S.A.P.S. (Thesis)
- Applied Research and Evaluation Certificate Program (Online)
- Applied Statistics Certificate
- Arabic Concentration
- Arabic Minor
- Art B.A. (Concentration in Art History)
- Art B.A. (Concentration in Studio Art)
- Art B.F.A. (Concentration in 2D Studio)
- Art B.F.A. (Concentration in 3D Studio)
- Art Education B.S.
- Art Education Post-Baccalaureate Certification
- Art History Minor
- Art M.F.A. (Concentration in Graphic Design)
- Art M.F.A. (Concentration in Studio Art)
- Asian Studies Minor
- Associate of Arts A.A.

- Associate of Science A.S.
- Athletic Training M.S.A.T
- Autism Endorsement (Online)
- Biochemistry B.S.
- Biochemistry Minor
- Biology B.A.
- Biology B.S.
- Biology M.S. (Non-Thesis)
- Biology M.S. (Thesis)
- Biology Minor
- Business Administration M.B.A.
- Business Administration M.B.A. (The Georgia WebMBA)
- Business Administration Ph.D (Logistics and Supply Chain Management)
- Business Concentration (Online)
- Certificate in Music Performance
- Certificate in Public Health (Online)
- Certificate in Public History
- Chemistry B.A.
- Chemistry B.S.
- Chemistry Minor
- Child and Family Development B.S. (Concentration in Child Development)
- Child and Family Development B.S. (Concentration in Child Life)
- Child and Family Development B.S. (Concentration in Family Services)
- Child and Family Development B.S. Concentration in Birth Through Kindergarten (Certification Track)
- Child and Family Development B.S. Concentration in Birth Through Kindergarten (Certification Track)
- Child and Family Development B.S. Concentration in Birth-Kindergarten (Non-Certification Track)
- Child and Family Development B.S. Concentration in Birth-Kindergarten (Non-Certification Track)
- Child and Family Development Minor
- Chinese Concentration
- Chinese Minor
- Civil Engineering B.S.C.E.
- Civil Engineering M.S.C.E. (Non-Thesis)
- Civil Engineering M.S.C.E. (Thesis)
- Classical and Medieval Studies Interdisciplinary Minor
- Clinical Psychology Psy.D.
- Clinical Specialist in Advanced Imaging Certificate
- Coaching Minor
- Communication Arts Concentration
- Communication Sciences and Disorders B.S.
- Communication Sciences and Disorders M.S.
- Communication Studies B.S.
- Communication Studies Minor
- Computer Engineering B.S.Cp.E.
- Computer Science B.S.
- Computer Science M.S. (Hybrid) (Non-Thesis)
- Computer Science M.S. (Hybrid) (Thesis)
- Computer Science Minor
- Construction B.S.Cons.
- Construction Engineering B.S.Con.E.
- Counselor Education M.Ed.
- Criminal Justice and Criminology (Online)
- Criminal Justice and Criminology B.S. (Emphasis in Criminal Justice and Criminology)
- Criminal Justice and Criminology B.S. (Emphasis in Cybercrime)
- Criminal Justice and Criminology M.S. (Emphasis in Criminal Justice)
- Criminal Justice and Criminology M.S. (Emphasis in Criminology)
- Criminal Justice and Criminology M.S. (Emphasis in Cybercrime)
- Criminal Justice and Criminology Minor
- Culture and Society Concentration
- Curriculum and Instruction - Accomplished Teaching M.Ed. (Online)
- Curriculum and Pedagogy for Social Justice Certificate (Online)
- Curriculum Studies Ed.D.
- Cyber Security Certificate
- Cyber Security Minor
- Cybercrime Minor
- Cybercrime Post-Baccalaureate Certificate
- Digital Humanities Interdisciplinary Minor
- Doctor of Nursing Practice D.N.P. (Online)
- Doctor of Public Health
- Economics B.A.
- Economics B.B.A.
- Economics B.B.A. (International Business Emphasis)

- Economics Minor
- Education Concentration
- Educational Leadership Ed.D.
- Educational Leadership M.Ed.(Online)
- Educational Leadership Tier I Certificate Program (Online)
- Electrical Engineering B.S.E.E.
- Electrical Engineering M.S.E.E. (Non-Thesis)
- Electrical Engineering M.S.E.E. (Thesis)
- Elementary Education (Grades P-5) Ed.S. (Online)
- Elementary Education (Grades P-5) M.Ed. (Online)
- Elementary Education B.S.Ed. (Certification Track)
- Elementary Education B.S.Ed. Professional Studies (Non-Certification Track)
- English B.A.
- English for Speakers of Other Languages (ESOL) Education Endorsement (Online)
- English for Speakers of Other Languages (ESOL) Education Undergraduate Endorsement
- English M.A.
- English Minor
- Enterprise Resources Planning (ERP) Certificate Program (Online)
- Enterprise Resources Planning (ERP) Systems Minor
- Entrepreneurship and Innovation Minor
- Entrepreneurship Concentration
- Environmental Studies Interdisciplinary Minor
- Environmental Sustainability Interdisciplinary Minor
- European Union Studies Certificate
- European Union Studies Interdisciplinary Minor
- Evaluation, Assessment, Research, and Learning M.Ed. (Online)
- Exercise Science B.S.K. (Concentration in Allied Health and Graduate School)
- Exercise Science B.S.K. (Concentration in Fitness and Wellness Management)
- Exercise Science B.S.K. (Concentration in Inclusive Physical Activity)
- Exercise Science B.S.K. (Concentration in Sport Performance)
- Exercise Science B.S.K. (Concentration in Tactical Strength and Conditioning)
- Exercise Science Minor
- Family Nurse Practitioner Post-MSN Certificate
- Fashion Merchandising and Apparel Design B.S. (Emphasis in Design)
- Fashion Merchandising and Apparel Design B.S. (Emphasis in Merchandising)
- Fashion Merchandising and Apparel Design Minor
- Film Studies Interdisciplinary Minor
- Finance B.B.A.
- Finance Minor
- Financial Technology (FinTech) Certificate Program
- Foreign Language Minor
- Forensic Accounting Certificate
- Fraud Examination Certificate
- French Concentration
- French Minor
- Geographic Information Science Minor
- Geography B.A.
- Geography B.S.
- Geography Minor
- Geology B.A.
- Geology B.S.
- Geology Minor
- German Concentration
- German Minor
- Gerontology Graduate Certificate
- Gerontology Interdisciplinary Minor
- Gifted In-field Graduate Endorsement (Online)
- Gifted In-field Undergraduate Endorsement (Online)
- Global Health Minor
- Graduate Certificate in Taxation
- Graphic Communications Minor
- Graphic Design B.F.A.
- Graphic Design Minor
- Health and Physical Education B.S.Ed. (Certification Track)
- Health and Physical Education B.S.Ed. Professional Studies (Non-Certification Track)
- Health Informatics Minor
- Health Sciences B.H.S. (Concentration in General Health Science)
- Health Sciences B.H.S. (Concentration in Health Informatics)
- Health Sciences B.H.S. (Concentration in Health Services Administration)

- Health Sciences B.H.S. (Concentration in Human Performance/Fitness Management)
- Health Services Administration Emphasis
- Higher Education Administration M.Ed. (Hybrid)
- History B.A.
- History Concentration
- History M.A. (Concentration in Public History)
- History M.A. (Non-Thesis)
- History M.A. (Thesis)
- History Minor
- Information Systems B.B.A.
- Information Systems B.B.A. (Business Intelligence Emphasis)
- Information Systems B.B.A. (Enterprise Resource Planning Systems Emphasis)
- Information Systems B.B.A. (Enterprise Security Emphasis)
- Information Technology B.I.T (Online)
- Information Technology B.S.I.T (Concentration in Data Science)
- Information Technology B.S.I.T.
- Information Technology M.S.I.T. (Non-Thesis)
- Information Technology M.S.I.T. (Thesis)
- Information Technology Minor
- Instructional Design and Technology Minor
- Instructional Technology Certificate Program (Online)
- Instructional Technology Ed.S. (Online)
- Instructional Technology M.Ed. (Georgia ONmyLINE)
- Interdisciplinary Certificate in Hospitality and Tourism Management
- Interdisciplinary Studies B.I.S.
- Interdisciplinary Studies B.I.S. (Online)
- Interior Design B.S.
- International Studies B.A. (Foreign Language Emphasis)
- International Studies BA (Regional Emphasis)
- International Studies Concentration
- International Studies Interdisciplinary Minor
- International Trade B.S.
- Irish Studies Concentration
- Irish Studies Interdisciplinary Minor
- Japanese Concentration
- Japanese Minor
- Kinesiology M.S. (Concentration in Athletic Training) (Non-Thesis)
- Kinesiology M.S. (Concentration in Athletic Training) Thesis
- Kinesiology M.S. (Concentration in Coaching) (Online)
- Kinesiology M.S. (Concentration in Exercise Science) (Thesis and Non-Thesis)
- Kinesiology M.S. (Concentration in Physical Education) (Online)
- Kinesiology M.S. (Concentration in Sport and Exercise Psychology) (Non-Thesis)
- Kinesiology M.S. (Concentration in Sport and Exercise Psychology) (Thesis)
- Latin American Studies Interdisciplinary Concentration
- Latin Minor
- Linguistics Interdisciplinary Minor
- Management B.B.A.
- Management B.B.A. (Emphasis in Entrepreneurship and Innovation)
- Management B.B.A. (Emphasis in Hospitality Management)
- Management B.B.A. (Emphasis in Human Resource Management)
- Management Minor
- Manufacturing Engineering B.S.Mfg.E.
- Marketing B.B.A.
- Marketing B.B.A. (Emphasis in Fashion Merchandising)
- Marketing B.B.A. (Emphasis in Retailing Management)
- Marketing B.B.A. (Emphasis in Sales and Sales Management)
- Master of Health Administration M.H.A.
- Mathematical Sciences B.S.
- Mathematical Sciences M.S. (Concentration in Applied Mathematics)
- Mathematical Sciences M.S. (Concentration in Computational Science)
- Mathematical Sciences M.S. (Concentration in Pure Mathematics)
- Mathematical Sciences M.S. (Concentration in Statistics)
- Mathematical Sciences Minor
- Mechanical Engineering B.S.M.E.
- Mechanical Engineering M.S.M.E. (Non-Thesis)
- Mechanical Engineering M.S.M.E. (Thesis)
- Medical Laboratory Science B.S.M.L.S.
- Medical Laboratory Science B.S.M.L.S. (Online)
- Mental Health Minor
- Middle Grades Education (Grades 4-8) Ed.S. (Online)
- Middle Grades Education (Grades 4-8) M.Ed. (Online)

- Middle Grades Education B.S.Ed. (Certification Track)
- Middle Grades Education B.S.Ed. Professional Studies (Non-Certification Track)
- Military Science Minor
- Military Science Non-Degree
- Multimedia Film and Production B.S.
- Multimedia Film and Production Minor
- Multimedia Journalism B.S.
- Multimedia Journalism Minor
- Music - Applied Minor
- Music - History and Literature Minor
- Music - Music Technology Minor
- Music B.A.
- Music B.A. (Concentration in Music Industry)
- Music B.M. (Concentration in Composition)
- Music B.M. (Concentration in Instrumental Performance)
- Music B.M. (Concentration in Piano Performance)
- Music B.M. (Concentration in Voice Performance)
- Music Concentration
- Music Education B.M. (Concentration in Choral)
- Music Education B.M. (Instrumental)
- Music M.M. (Concentration in Composition)
- Music M.M. (Concentration in Conducting)
- Music M.M. (Concentration in Music Education)
- Music M.M. (Concentration in Music Technology)
- Music M.M. (Concentration in Performance)
- Music Minor
- Naval Science Minor
- Neuroscience Minor
- Nonprofit Management Concentration (Online)
- Nonprofit Management Minor
- Nursing Accelerated B.S.N.
- Nursing B.S.N.
- Nursing BSN to DNP
- Nursing M.S.N. (Online)
- Nursing RN-BSN
- Nutrition and Food Science B.S. (Emphasis in Community Nutrition)
- Nutrition and Food Science B.S. (Emphasis in Dietetics)
- Nutrition and Food Science B.S. (Emphasis in Food Science/Food Systems Administration)
- Nutrition and Food Science Minor
- Online Teaching and Learning Endorsement (Online)
- Organizational Psychology Minor
- Paralegal Certificate Program
- Philosophy B.A.
- Philosophy B.A. (Concentration in Law)
- Philosophy B.A. (Concentration in Religious Studies)
- Philosophy Minor
- Photography/Digital Imaging Minor
- Physical Therapy D.P.T.
- Physics B.A.
- Physics B.S.
- Physics Minor
- Political Science B.A.
- Political Science B.A. (Concentration in Law and Politics)
- Political Science Concentration
- Political Science Minor
- Positive Behavior Intervention and Supports Endorsement (Online)
- Professional and Technical Writing Minor
- Professional Communication and Leadership M.A.
- Professional Communication and Leadership Post-Baccalaureate Certificate
- Psychiatric Mental Health Nurse Practitioner Post-MSN Certificate
- Psychology B.S.
- Psychology M.S.
- Psychology M.S. (Concentration in Behavior Analysis)
- Psychology Minor
- Public Administration Concentration (Online)
- Public Administration M.P.A.
- Public Administration Minor
- Public Health B.S.P.H. (Emphasis in Environmental Health)
- Public Health B.S.P.H. (Emphasis in Global Health)
- Public Health B.S.P.H. (Emphasis in Health Education and Promotion)
- Public Health Dr.P.H. (Concentration in Biostatistics)
- Public Health Dr.P.H. (Concentration in Community Health Behavior and Education)
- Public Health Dr.P.H. (Concentration in Epidemiology)

- Public Health Dr.P.H. (Concentration in Health Policy and Management)
- Public Health Dr.P.H. (Concentration in Public Health Leadership) (Online)
- Public Health M.P.H. (Concentration in Applied Public Health) (Online)
- Public Health M.P.H. (Concentration in Biostatistics)
- Public Health M.P.H. (Concentration in Community Health)
- Public Health M.P.H. (Concentration in Environmental Health Sciences)
- Public Health M.P.H. (Concentration in Epidemiology)
- Public Health M.P.H. (Concentration in Health Policy and Management)
- Public Health Minor
- Public Policy Concentration (Online)
- Public Policy Minor
- Public Relations B.S.
- Public Relations Minor
- Radiologic Sciences B.S.R.S. (Bridge Program)
- Radiologic Sciences B.S.R.S. (Concentration in Cardiovascular/ Interventional Science)
- Radiologic Sciences B.S.R.S. (Concentration in Diagnostic Medical Sonography)
- Radiologic Sciences B.S.R.S. (Concentration in Nuclear Medicine)
- Radiologic Sciences B.S.R.S. (Concentration in Radiation Therapy)
- Radiologic Sciences B.S.R.S. (Concentration in Radiography)
- Radiologic Sciences B.S.R.S. (Special Options Program)
- Reading Education (K-12) Ed.S. (Online)
- Reading Education M.Ed. (Online)
- Reading Endorsement: Classroom Teacher of Reading Program (Online)
- Recreation and Tourism Management Minor
- Recreation B.S. (Emphasis in Outdoor Recreation)
- Recreation B.S. (Emphasis in Tourism and Community Leisure Services)
- Rehabilitation Sciences B.S.
- Religious Studies Concentration
- Religious Studies Interdisciplinary Minor
- Respiratory Therapy B.S.
- Respiratory Therapy B.S. (Online)
- School Library Media Certificate Program (Online)
- School Psychology Ed.S.
- Secondary Education (Grades 6-12) Ed.S. (Online)
- Secondary Education (Grades 6-12) M.Ed. (Online)
- Secondary Education B.S.Ed. (Emphasis in Biology Education - Certification Track)
- Secondary Education B.S.Ed. (Emphasis in Chemistry Education - Certification Track)
- Secondary Education B.S.Ed. (Emphasis in English Education - Certification Track)
- Secondary Education B.S.Ed. (Emphasis in History Education - Certification Track)
- Secondary Education B.S.Ed. (Emphasis in Mathematics Education - Certification Track)
- Secondary Education B.S.Ed. (Emphasis Physics - Certification Track)
- Secondary Education B.S.Ed. - Professional Studies (Emphasis in Biology - Non-Certification Track)
- Secondary Education B.S.Ed. - Professional Studies (Emphasis in Chemistry - Non-Certification Track)
- Secondary Education B.S.Ed. - Professional Studies (Emphasis in English - Non-Certification Track)
- Secondary Education B.S.Ed. - Professional Studies (Emphasis in History - Non-Certification Track)
- Secondary Education B.S.Ed. - Professional Studies (Emphasis in Mathematics-Non-Certification Track)
- Secondary Education B.S.Ed. - Professional Studies (Emphasis in Physics - Non-Certification Track)
- Social Science M.A.
- Social Science M.A. (Non-Thesis)
- Sociology B.S.
- Sociology Concentration (Online)
- Sociology Minor
- Spanish Concentration
- Spanish M.A.
- Spanish Minor
- Special Education (Grades P-12) Ed.S. (Online)
- Special Education (Grades P-12) M.Ed. (Online)
- Special Education B.S.Ed. (Certification Track)
- Special Education B.S.Ed. Professional Studies (Non-Certification Track)
- Sport Management B.S.
- Sport Management M.S. (Online)
- Sports Medicine M.S.S.M. (Concentration in Strength Conditioning)
- Sports Medicine M.S.S.M. (Emphasis in Human Movement Science)
- Statistics Minor

- Strength and Conditioning Graduate Certificate
- Studio Art Minor
- Supply Chain B.B.A. (Emphasis in Operations and Supply Management)
- Supply Chain Management B.B.A. (Emphasis in Logistics and Intermodal Transportation)
- Sustainability Concentration
- Sustainability Science B.S.
- Tactical Athlete Certificate
- Teacher Leadership Endorsement (Online)
- Teacher Support and Coaching Endorsement (Online)
- Teaching Culturally and Linguistically Diverse Students Certificate (Online)
- Teaching Culturally and Linguistically Diverse Students M.Ed.
- Teaching English to Speakers of Other Languages (TESOL)/Applied Linguistics Certificate (Online)
- Teaching M.A.T. (Concentration in Elementary Education P-5) (Online)
- Teaching M.A.T. (Concentration in Health and Physical Education P-12) (Online)
- Teaching M.A.T. (Concentration in Middle Grades Education Grades 4-8) (Online)
- Teaching M.A.T. (Concentration in Secondary Education Grades 6-12) (Online)
- Teaching M.A.T. (Concentration in Spanish Education P-12)
- Teaching M.A.T. (Concentration in Special Education P-12) (Online)
- Theatre B.A.
- Theatre Minor
- Urban Education Graduate Endorsement (Online)
- Urban Education Undergraduate Endorsement
- Women's, Gender, and Sexuality Studies B.A.
- Women's, Gender, and Sexuality Studies Interdisciplinary Concentration
- Women's, Gender, and Sexuality Studies Interdisciplinary Minor
- World Languages and Cultures B.A. (Concentration in Arabic Studies)
- World Languages and Cultures B.A. (Concentration in Chinese Studies)
- World Languages and Cultures B.A. (Concentration in French Studies)
- World Languages and Cultures B.A. (Concentration in German Studies)
- World Languages and Cultures B.A. (Concentration in Japanese Studies)
- World Languages and Cultures B.A. (Concentration in Latin Studies)

- World Languages and Cultures B.A. (Concentration in Spanish Studies)
- Writing and Linguistics B.A.
- Writing Concentration
- Writing Minor

Course Descriptions

A

- AAST Africana Studies (p. 262)
- ACCT Accounting (p. 262)
- AFAS African American Studies (p. 264)
- ANTH Anthropology (p. 264)
- APAN Applied Anthropology (<http://catalog.georgiasouthern.edu/academics/course-descriptions/apan/>)
- ARAB Arabic (<http://catalog.georgiasouthern.edu/academics/course-descriptions/arab/>)
- ARCH Archaeology (<http://catalog.georgiasouthern.edu/academics/course-descriptions/arch/>)
- ART Art (p. 265)
- ARTG Art Graphic Design (<http://catalog.georgiasouthern.edu/academics/course-descriptions/artg/>)
- ARTH Art History (p. 269)
- ARTS Art (p. 273)
- ASTR Astronomy (p. 274)

B

- BCHM Biochemistry (p. 276)
- BIOL Biology (p. 276)
- BIOS Biostatistics (p. 289)
- BKIN Birth to Kindergarten (<http://catalog.georgiasouthern.edu/academics/course-descriptions/bkin/>)
- BUSA Business Administration (p. 291)

C

- CENG Civil Engineering (p. 293)
- CHBE Comm Hlth Behavior & Ed (p. 300)
- CHEM Chemistry (p. 301)
- CHFD Child and Family Devel (p. 305)
- CHIN Chinese (<http://catalog.georgiasouthern.edu/academics/course-descriptions/chin/>)
- CIED Valdosta State-Franchise (p. 308)
- CISM Computer Infor Systems (p. 308)
- COED PBB Practicum (<http://catalog.georgiasouthern.edu/academics/course-descriptions/coed/>)
- COHE Community Health (p. 311)
- COML Comparative Literature (p. 311)
- COMM Communication Arts (p. 312)
- COMS Communication Studies (p. 314)
- COOP Cooperative Education Pro (p. 314)
- COUN Counseling Education (p. 314)
- CRJU Criminal Justice (p. 316)
- CSCI Computer Science (p. 322)
- CSDS Communication Disorders (p. 326)

- CVIS Cardiovascular/Interven (<http://catalog.georgiasouthern.edu/academics/course-descriptions/cvis/>)
- CWP Conversations with Professors (<http://catalog.georgiasouthern.edu/academics/course-descriptions/cwp/>)

D

- DDTS Diagnostic & Therapeutic (<http://catalog.georgiasouthern.edu/academics/course-descriptions/ddts/>)

E

- ECE Elect/Compter Engineering (<http://catalog.georgiasouthern.edu/academics/course-descriptions/ece/>)
- ECEG Early Childhood (p. 327)
- ECON Economics (p. 328)
- EDAT Accomplished Teaching (p. 331)
- EDCI-Education GAState Franchi (p. 332)
- EDET Education-GOML (p. 332)
- EDLD Educational Leadership (p. 332)
- EDMS Ed Accplish Teach CSU-GML (p. 338)
- EDMT Educ Math-GOML (p. 338)
- EDRD Georgia State Univ Franch (p. 338)
- EDSC Sci for Teachers (p. 338)
- EDUC Curriculum (p. 340)
- EDUF Educational Foundations (p. 341)
- EDUR Educational Research (p. 345)
- EELE Early Elementary Edu (p. 346)
- EENG Electrical Engineering (p. 346)
- EEEXE Exceptional Education (p. 352)
- EGC East Georgia College (p. 352)
- ELEM Elementary Education (p. 352)
- ENGL English (p. 353)
- ENGR Engineering (<http://catalog.georgiasouthern.edu/academics/course-descriptions/engr/>)
- ENVH Environmental Hlth Scienc (p. 360)
- ENVS Environmental Science (p. 361)
- EPID Epidemiology (p. 362)
- EPRS Georgia State Univ Franch (p. 364)
- EPSF Education Foundations-GML (p. 364)
- EPY ED Psys GOML (p. 364)
- ESED Element - Secondary Educa (p. 364)
- ESL English as a Second Lang (<http://catalog.georgiasouthern.edu/academics/course-descriptions/esl/>)
- ESPY School Psychology (p. 367)
- EURO European Union (<http://catalog.georgiasouthern.edu/academics/course-descriptions/euro/>)

F

- FACS Family and Consumer Sci (<http://catalog.georgiasouthern.edu/academics/course-descriptions/facs/>)
- FILM Film (p. 368)
- FINC Finance (p. 369)
- FMAD Fash Merchan/Apparel Des (<http://catalog.georgiasouthern.edu/academics/course-descriptions/fmad/>)
- FORL Foreign Language (p. 371)
- FOUN Education Foundations (p. 372)
- FRCT Curriculum Theory (p. 372)
- FREC Early Childhood (p. 372)

- FREN French (p. 372)
- FRER Educational Research (p. 375)
- FRIT Instructional Technology (p. 376)
- FRLT Educational Foundations (p. 377)
- FRMS Middle & Secondary Ed (p. 377)
- FYE First-Year Experience (<http://catalog.georgiasouthern.edu/academics/course-descriptions/fye/>)

G

- GCM Graphic Comm Management (p. 377)
- GEOG Geography (p. 380)
- GEOL Geology (p. 384)
- GEPH General Public Health (p. 388)
- GERO Gerontology (p. 389)
- GFA Georgia Film Academy (<http://catalog.georgiasouthern.edu/academics/course-descriptions/gfa/>)
- GRMN German (<http://catalog.georgiasouthern.edu/academics/course-descriptions/grmn/>)
- GSOU CIR Placeholder Course (<http://catalog.georgiasouthern.edu/academics/course-descriptions/gsou/>)
- GSU GSU (p. 389)

H

- HADM Health Administration (p. 389)
- HIST History (p. 391)
- HITC Health Informatics (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hitc/>)
- HLPK Health Professions (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hlpr/>)
- HLTH Health (p. 402)
- HNRM Hotel and Restaurant Mgt (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hnrm/>)
- HONS Honors College (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hons/>)
- HSCA Health Sciences Adm (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hasca/>)
- HSCC Health Sciences, Core (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hsccl/>)
- HSCF Health Sci Fitness Mgmt (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hscf/>)
- HSCG Health Sci Generalist (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hscg/>)
- HSCP Health Sci Public Health (<http://catalog.georgiasouthern.edu/academics/course-descriptions/hscp/>)
- HSPM Hlth Service Policy Mgmt (p. 403)
- HUMN Humanities (<http://catalog.georgiasouthern.edu/academics/course-descriptions/humn/>)

I

- IDS Interdisciplinary Studies (<http://catalog.georgiasouthern.edu/academics/course-descriptions/ids/>)
- INDS Interior Design (<http://catalog.georgiasouthern.edu/academics/course-descriptions/inds/>)
- INTS International Studies (p. 405)
- IPSE Inclusive Post-Sec Ed (<http://catalog.georgiasouthern.edu/academics/course-descriptions/ipse/>)
- IRSH Irish Studies (<http://catalog.georgiasouthern.edu/academics/course-descriptions/irsh/>)

- ISCI Science-Teach/Learn (<http://catalog.georgiasouthern.edu/academics/course-descriptions/isci/>)
- IT Information Technology (p. 409)
- ITEC Instructional Tech Ed (p. 410)
- ITW Information Technology Web (<http://catalog.georgiasouthern.edu/academics/course-descriptions/itw/>)

J

- JAPN Japanese (<http://catalog.georgiasouthern.edu/academics/course-descriptions/japn/>)

K

- KINS Kinesiology (p. 411)

L

- LAST Latin American Studies (<http://catalog.georgiasouthern.edu/academics/course-descriptions/last/>)
- LATN Latin (<http://catalog.georgiasouthern.edu/academics/course-descriptions/latn/>)
- LEAD Leadership (p. 416)
- LESP Learning Support (<http://catalog.georgiasouthern.edu/academics/course-descriptions/lesp/>)
- LING Linguistics (p. 416)
- LOGT Logistics & Intermodal Transportation (p. 418)
- LSCM Logistics Supply Chain Mg (p. 419)
- LSTD Legal Studies (p. 420)
- LWSO Law and Society (<http://catalog.georgiasouthern.edu/academics/course-descriptions/lwso/>)

M

- MAED Math Education (p. 421)
- MATH Mathematics (p. 421)
- MEDT Medical Tech (<http://catalog.georgiasouthern.edu/academics/course-descriptions/medt/>)
- MENG Mechanical Engineering (p. 430)
- METR Meteorology (<http://catalog.georgiasouthern.edu/academics/course-descriptions/metr/>)
- MFGE Manufacturing Engineering (p. 438)
- MGED Middle Grades Education (p. 445)
- MGMS Valdosta State Franchise (p. 446)
- MGNT Management (p. 446)
- MGSE Middle Grades/Secondary (<http://catalog.georgiasouthern.edu/academics/course-descriptions/mgse/>)
- MHSA Health Services Admin (p. 447)
- MKTG Marketing (p. 448)
- MMFP Multimedia Film & Prod (<http://catalog.georgiasouthern.edu/academics/course-descriptions/mmfp/>)
- MMJ Multimedia Journalism (<http://catalog.georgiasouthern.edu/academics/course-descriptions/mmj/>)
- MSCI Military Science (<http://catalog.georgiasouthern.edu/academics/course-descriptions/msci/>)
- MSED Middle Grades & Second Ed (p. 449)
- MUSA Applied Music (p. 452)
- MUSC Music (p. 452)
- MUSE Music Ensemble (p. 459)

N

- NMLI Nonprofit Mgnt, Lead Inno (p. 460)
- NSCI Naval Science (<http://catalog.georgiasouthern.edu/academics/course-descriptions/nsci/>)
- NTFS Nutrition and Food Science (p. 460)
- NUCM Nuclear Medicine Course (<http://catalog.georgiasouthern.edu/academics/course-descriptions/nucm/>)
- NURS Nursing (p. 463)

O

- OSCM Operations and Supply Chain Management (<http://catalog.georgiasouthern.edu/academics/course-descriptions/oscm/>)

P

- PBAD Public Administration (p. 476)
- PBHS Public History (p. 478)
- PBIS Positive Behav Interventi Supp (p. 478)
- PEAT Physical Edu, Ath Train (<http://catalog.georgiasouthern.edu/academics/course-descriptions/peat/>)
- PEBC Physical Edu Activities (<http://catalog.georgiasouthern.edu/academics/course-descriptions/pebc/>)
- PECI Physical Edu, Curr & Ins (p. 479)
- PEEC Physical Education Elec (<http://catalog.georgiasouthern.edu/academics/course-descriptions/peec/>)
- PEHM Phys Edu/Health Major (<http://catalog.georgiasouthern.edu/academics/course-descriptions/pehm/>)
- PHIL Philosophy (p. 479)
- PHLD Public Health Leadership (p. 481)
- PHSC Physical Sc (<http://catalog.georgiasouthern.edu/academics/course-descriptions/phsc/>)
- PHTH Physical Therapy (p. 481)
- PHYS Physics (p. 483)
- POLS Political Science (p. 487)
- PRCA Public Relations (<http://catalog.georgiasouthern.edu/academics/course-descriptions/prca/>)
- PSYC Psychology (p. 493)
- PSYG Psychology-GOML (p. 501)
- PUBH Public Health (p. 501)

R

- RADR Radiography (<http://catalog.georgiasouthern.edu/academics/course-descriptions/radr/>)
- RADS Radiologic Sciences (p. 507)
- RDSC Radiologic Science (<http://catalog.georgiasouthern.edu/academics/course-descriptions/rdsc/>)
- READ Reading (p. 507)
- RECR Recreation (p. 509)
- RELS Religious Studies (p. 512)
- RESP Respiratory Therapy (<http://catalog.georgiasouthern.edu/academics/course-descriptions/resp/>)
- RHAB Rehabilitation Sciences (<http://catalog.georgiasouthern.edu/academics/course-descriptions/rhab/>)
- RLC Residential Life Communities (<http://catalog.georgiasouthern.edu/academics/course-descriptions/rlc/>)
- RTHR Radiation Therapy (<http://catalog.georgiasouthern.edu/academics/course-descriptions/rthr/>)

S

- SABR Study Abroad (<http://catalog.georgiasouthern.edu/academics/course-descriptions/sabr/>)
- SCED Secondary Education (p. 513)
- SCIE Science (<http://catalog.georgiasouthern.edu/academics/course-descriptions/scie/>)
- SEAC Valdosta State Franchise (p. 515)
- SEGC Valdosta State Franchise (p. 515)
- SERD GOML Valdosta (p. 515)
- SLPA Speech/Language Path (<http://catalog.georgiasouthern.edu/academics/course-descriptions/slpa/>)
- SMED Sports Medicine (p. 515)
- SMGT Sport Management (p. 517)
- SOAR Student Orientation & Registra (<http://catalog.georgiasouthern.edu/academics/course-descriptions/soar/>)
- SOCI Sociology (p. 519)
- SONO Sonography (<http://catalog.georgiasouthern.edu/academics/course-descriptions/sono/>)
- SPAN Spanish (p. 523)
- SPED Special Education (p. 527)
- SSCI Social Science (<http://catalog.georgiasouthern.edu/academics/course-descriptions/ssci/>)
- STAT Statistics (p. 531)
- SUST Sustainability (<http://catalog.georgiasouthern.edu/academics/course-descriptions/sust/>)

T

- TCGT General Technology (<http://catalog.georgiasouthern.edu/academics/course-descriptions/tcgt/>)
- TCLD Teach Cult Ling Div Stdnt (p. 532)
- TCM Construction Management (p. 533)
- TFG Technology-Fort Gordon (p. 534)
- TGET Engineering Tech - Grad (p. 534)
- THEA Theatre (p. 534)
- TMAE Applied Engineering (p. 534)
- TMFG Manufacturing Technology (p. 536)
- TSEC Safety and Environ Compl (p. 536)
- TSLE North Georgia-Franchise (p. 536)

W

- WBIT Web BSIT (<http://catalog.georgiasouthern.edu/academics/course-descriptions/wbit/>)
- WGSS Womens Gender Sexuality (p. 536)
- WLST Web Legal Studies (p. 536)
- WMAC Web Masters of Accounting (p. 537)
- WMBA Web MBA (p. 537)
- WRIT Writing (p. 538)

Introduction

This section of the catalog offers an alphabetical listing of graduate courses offered at Georgia Southern University, along with the college in which that course is taught. Prerequisites, Corequisites, and Cross Listings are noted at the end of each description. Graduate courses, in general, begin with a 6, 7, 8, or 9. Courses numbered "5000" followed by a "G" are also graduate courses. (See "Course Numbering" below).

Course Numbering System

In general, the **first digit** of the course corresponds to the level of the class.

5	Dual Undergraduate/Graduate
6	Lower Division Graduate
7-8	Upper Division Graduate
9	Doctoral Level Graduate

A 5000 course number followed by a "G" indicates a Graduate course.

College Abbreviations

CAH	College of Arts and Humanities
CBSS	College of Behavioral and Social Sciences
COB	Parker College of Business
COE	College of Education
CEC	Allen E. Paulson College of Engineering and Computing
CHP	Waters College of Health Professions
COPH	Jiann-Ping Hsu College of Public Health
COSM	College of Science and Mathematics
VPAA	Office of Vice President for Academic Affairs
Interdisciplinary	Courses offered by more than one department and/or college

Course Prefixes

AAST	Africana Studies
ACCT	Accounting
AFAS	African American Studies
ANTH	Anthropology
ART	Art
ARTH	Art History
ARTS	Art
ASTR	Astronomy
BCHM	Biochemistry
BIOL	Biology
BIOS	Biostatistics
BUSA	Business Administration
CHBE	Community Health: Behavior and Education
CHEM	Chemistry
CENG	Civil Engineering
CHFD	Child and Family Development
CISM	Computer Information Systems
COHE	Community Health Education
COML	Comparative Literature
COMM	Communication Arts
COMS	Communication Studies
COOP	Cooperative Education Pro
COUN	Counseling Education
CRJU	Criminal Justice
CSCI	Computer Science
CSDS	Communication Disorders

ECEG	Early Childhood	MHSA	Health Services Admin
ECON	Economics	MKTG	Marketing
EDAT	Accomplished Teaching	MSED	Middle Grades and Secondary Education
EDLD	Educational Leadership	MUSA	Applied Music
EDSC	Education Science	MUSC	Music
EDUC	Curriculum	MUSE	Music Ensemble
EDUF	Educational Foundations	NTFS	Nutrition and Food Science
EDUR	Educational Research	NURS	Nursing
EELE	Early Elementary Edu	ONTL	Online Teaching & Learning
EENG	Electrical Engineering	PBAD	Public Administration
EEXE	Exceptional Education	PBHS	Public History
ELEM	Elementary Education	PBIS	Positive Behavior Intervention Support
ENGL	English	PECI	Physical Edu, Curr & Ins
ENVH	Environmental Health Sciences	PHIL	Philosophy
ENVS	Environmental Science	PHLD	Public Health Leadership
EPID	Epidemiology	PHTH	Physical Therapy
ESED	Early Childhood-Secondary Education	PHYS	Physics
ESPY	School Psychology	POLS	Political Science
FILM	Film	PSYC	Psychology
FINC	Finance	PUBH	Public Health
FORL	Foreign Language	RADS	Radiologic Sciences
FOUN	Education Foundations	READ	Reading
FRCT	Curriculum Theory	RECR	Recreation
FREC	Early Childhood	RELS	Religious Studies
FREN	French	SCED	Secondary Education
FRER	Educational Research	SMGT	Sport Management
FRIT	Instructional Technology	SOCI	Sociology
FRLT	Educational Foundations	SPAN	Spanish
FRMS	Middle and Secondary Education	SPED	Special Education
GCM	Graphic Communications Management	STAT	Statistics
GEOG	Geography	TCET	Civil Engineering Technology
GEOL	Geology	TCLD	Teaching Culturally Linguistically Diverse Students
GEPH	General Public Health	TCM	Construction Management
GERO	Gerontology	TFG	Technology Fort Gordon
GSU	GSU	TGET	Engineering Tech - Grad
HADM	Health Administration	THEA	Theatre
HIST	History	TMAE	Applied Engineering
HLTH	Health	TMFG	Manufacturing Technology
HSPM	Health Services Policy Management	TSEC	Safety and Environmental Technology
INTS	International Studies	WBUS	Web Business
IT	Information Technology	WGST	Women's and Gender Studies
ITEC	Instructional Technology Education	WLST	Web Legal Studies
KINS	Kinesiology	WMAC	Web Accounting
LEAD	Leadership	WMBA	WebMBA Consortium
LING	Linguistics	WRIT	Writing
LOGT	Logistics & Intermodal Transportation		
LSCM	Logistics Supply Chain Mg		
LSTD	Legal Studies		
MAED	Math Education		
MATH	Mathematics		
MENG	Mechanical Engineering		
MFGE	Manufacturing Engineering		
MGED	Middle Grades Education		
MGNT	Management		

AAST Africana Studies

AAST 5233G The American City

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of American urban development from the colonial period to the present with particular attention paid to migration, architecture, technology, politics, transportation, and urban culture in the late nineteenth and twentieth centuries. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): AAST 5233, HIST 5233, HIST 5233G.

ACCT Accounting

ACCT 2030 Survey of Accounting

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the theory and application of accounting concepts used to gather and report economic information to users within and outside of the organization. The course stresses the use of accounting information for decision making within the framework of a free economy. Open to non-BBA students. Credit for graduation can only be granted for either ACCT 2030 or ACCT 2101 and ACCT 2102.

ACCT 2101 Principles of Accounting I

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The theory and application of financial accounting concepts for reporting financial information to outside users. The course stresses the relationship between the rules by which financial statements are prepared and the use of financial statement information for decision making. Credit for graduation can only be granted for either ACCT 2030 or ACCT 2101 and ACCT 2102.

Prerequisite(s): A minimum grade of "C" in all of the following: BUSA 1105 and prior or current enrollment in CISM 2530, ENGL 1102, MATH 1232, or MATH 1441.

ACCT 2102 Principles of Accounting II

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The theory and application of managerial accounting concepts. The course stresses the use of accounting information for decision making and the role of managerial accounting in a business environment.

Prerequisite(s): A minimum grade of "C" in all of the following: ACCT 2101, CISM 2530, ENGL 1101, or WRIT 1101, ENGL 1102, MATH 1232, or MATH 1441.

ACCT 3131 Intermediate Accounting I

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The conceptual framework behind financial accounting, reporting and current practice in the preparation of financial statements including the income statement and balance sheet is the focus of this course. This includes accounting for changes and errors in financial reporting, income recognition, financial accounting disclosure, and analysis of financial statements through percentage and ratio analysis. Recent developments at the FASB, SEC and IASB are reviewed as an essential part of this course and students should be prepared to critically examine prospective financial accounting standards. The course stresses problem solving, critical thinking and research skills.

Prerequisite(s): A minimum grade of "C" in all of the following: ACCT 2101, ACCT 2102, CISM 2530, ENGL 1101, or WRIT 1101, ENGL 1102, MATH 1232, or MATH 1441.

ACCT 3132 Intermediate Accounting II

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is a continuation of ACCT 3131. This course focuses on the accounting treatment for assets and liabilities including cash; current receivables; inventories; property, plant and equipment; intangible assets; current liabilities and contingencies; and long-term liabilities and receivables. The financial statements of several public companies are reviewed and a detailed analysis of these statements is an essential part of this course.

Prerequisite(s): A minimum grade of "C" in ACCT 2102 and ACCT 3131.

ACCT 3231 Managerial Accounting II

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Preparation and analysis of information to assist management in decision making, learning, planning, and controlling business activities. The use of management accounting information for costing products and services, budgeting, pricing and product mix decisions, and evaluating operating performance are emphasized.

Prerequisite(s): A minimum grade of "C" in ACCT 2102, CISM 2530, ENGL 1101, or WRIT 1101, ENGL 1102, MATH 1232, or MATH 1441.

ACCT 3330 Income Tax

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to the basic concepts of federal income tax with a focus on taxation of individuals.

Prerequisite(s): A minimum grade of "C" in ACCT 3131.

ACCT 4030 Special Topics in Accounting

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A customized course that allows students to pursue further study in a specific accounting topic at the frontier of an area of research or a contemporary topic related to current real-world events.

ACCT 4130 Accounting Information Systems

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to how accounting activities are implemented and integrated in manual and computer-based accounting information systems. Topics include AIS components, transaction cycles, system development, internal control, the relationship between AIS design and the audit process, and the effects of technology. The course stresses problem solving, critical thinking, and computer application skills.

Prerequisite(s): A minimum grade of "C" or concurrent enrollment in ACCT 3131.

ACCT 4131 International Accounting

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examination of accounting issues and business operations in a global environment. Topics include foreign market currency systems, inflation and currency translation methodology, and international auditing and taxation issues impacting multinational corporations and individuals involved in exports, services, or capital transactions at an international level. Restriction(s): Accounting majors only.

Prerequisite(s): A minimum grade of "C" in ACCT 3132.

ACCT 4133 Intermediate Accounting III

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The capstone of the intermediate accounting sequence, this course is a continuation of ACCT 3132. Advanced accounting topics including accounting changes and error corrections, stockholders equity, accounting for income taxes, accounting for pensions and other post-retirement benefits, accounting for leases, and the statement of cash flows are the basis for this course.

Prerequisite(s): A minimum grade of "C" in ACCT 3132 and ACCT 3330, Accounting majors only.

ACCT 4430 Auditing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Develops the background to understand the auditing process and judgments made by auditors. Topics include external, internal and governmental auditing.

Prerequisite(s): A minimum grade of "C" in all of the following: ACCT 3132 and prior or concurrent enrollment in ACCT 4130. Accounting majors only.

ACCT 4530 Governmental and Institutional Accounting**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to accounting and financial reporting for state and local governments and not-for-profit entities. Financial management and accountability considerations particular to government and not-for-profit organizations are emphasized.

Prerequisite(s): A minimum grade of "C" in ACCT 3131, Accounting majors only.

ACCT 4631 Fraud Examination**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course takes a look at fraud by examining the pervasiveness of, and the causes, of fraud and white-collar crime in our society. Other topics to be explored include financial crime statutes, evidence gathering and admissibility, types and elements of fraud, general investigative methods, and report writing.

Prerequisite(s): A minimum grade of "C" in ACCT 2101 or ACCT 2030 and junior status.

ACCT 4632 Fraud Schemes Fraud Schemes**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course takes a look at the 44 most common fraud schemes, including how they work and how they can be effectively detected, investigated, and prevented.

Prerequisite(s): A minimum grade of "C" in ACCT 2101 or ACCT 2030 and junior status.

ACCT 4633 Forensic Interviews and Interrogation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the distinctions between interviews and interrogations and how each can be used in resolving criminal or civil allegations. Other topics to be explored include the verbal and nonverbal cues indicating truth or deception, preparation of interview memoranda, and obtaining and preparing legally-admissible admission statements.

Prerequisite(s): Junior Status.

Cross Listing(s): LSTD 4633.

ACCT 4790 Internship in Accounting**3-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised work-study program in selected business and accounting firms throughout the southeast. Any student enrolled in the internship program will be required to work for one full semester.

Prerequisite(s): Junior standing.

ACCT 4830 Special Problems in Accounting**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A customized course that is under the direction of a faculty sponsor. The course is designed to offer students an opportunity to pursue studies at a level or on topics not covered in scheduled courses. The scope and nature of the material covered is determined in consultation with faculty sponsor.

ACCT 4890 Directed Study in Accounting**3 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.**

Designed for independent study and research in selected areas of accounting under faculty supervision.

ACCT 5232 Managerial Accounting III**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continues the study of management accounting by focusing on current topics in the areas of 1) controllership, 2) applications and implications of modern costing and management accounting techniques, including advanced costing techniques, performance measurement, and process analysis, and 3) the legal, corporate and professional responsibilities of accounting departments. Specific topics may vary from year to year.

Prerequisite(s): A minimum grade of "C" in ACCT 3231, Accounting majors only.

Cross Listing(s): ACCT 5232G.

ACCT 5330 Taxation of Corporations and Partnerships**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the laws involving the formation, operation, and liquidation of corporations, S corporations, and partnerships.

Prerequisite(s): A minimum grade of "C" in ACCT 3330, Accounting majors only.

ACCT 7130 Seminar in Financial Accounting**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of business combinations, consolidation of financial statements of affiliated companies, multinational operations, foreign currency transactions, translation of foreign currency financial statements, reporting disaggregated information, and interim financial statements.

Prerequisite(s): A minimum grade of "C" in ACCT 4133 and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7131 Selected Topics in Accounting**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to offer students an opportunity to pursue studies at a level or on topics not covered in existing graduate courses. The scope and the nature of the material covered is determined in consultation with the faculty sponsor.

Prerequisite(s): Admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7330 Taxation of Corporations and Partnerships**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the laws of taxation involving the formation, operation, and liquidation of corporations, S corporations, and partnerships.

Prerequisite(s): A minimum grade of "C" in ACCT 3330, and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7331 Taxation of Pass-Through Entities**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The federal income taxation of pass-through entities, including partnerships (LLC), S corporations, and trusts and estates. The income tax aspects of each of these entities are examined with regard to formation, operation, allocation of income among owners (or beneficiaries), distributions and liquidation.

Prerequisite(s): A minimum grade of "C" in ACCT 7330 or concurrent enrollment in ACCT 7330, and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7334 Tax Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of research techniques to income tax and other tax planning; case studies and reports. This course provides the student with the opportunity to analyze, critique, and do practical tax research. Emphasis is placed on research methodology rather than on technical or legal knowledge of the tax law.

Prerequisite(s): A minimum grade of "C" in ACCT 3330, and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7430 Seminar in Auditing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced topics in external auditing related to engagement planning, risk assessment, audit procedures and the gathering of evidence, and concluding and reporting on the audit.

Prerequisite(s): A minimum grade of "C" in ACCT 4430, and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7530 Seminar in Accounting Information Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Develops an understanding and appreciation for the design, analysis, development and implementation of computer-based accounting information systems with an emphasis on control and management issues of this accounting function. Practical application will be examined through computer projects and systems cases.

Prerequisite(s): A minimum grade of "C" in ACCT 4130, and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7634 Fraudulent Financial Reporting**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

While asset theft fraud is well covered in the two fraud examination courses, additional training in financial statement fraud is needed due to the technical nature of accounting and reporting standards. This course demonstrates how financial statement analysis can be used to uncover fraudulent financial reporting. In addition, the most common methods for "cooking the books" will be examined along with strategies for detecting and investigating such schemes.

Prerequisite(s): A minimum grade of "C" in ACCT 4133, and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7636 Expert Witnessing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the role of accountants as either testifying or consulting experts in legal disputes involving professional negligence cases, securities fraud, business/partnership disputes, business interruption losses, business valuations, and marital disputes. Topics include how to communicate opinions effectively at deposition, at trial, and in written report; the law and procedure dealing with experts; ethics; and how to deal with attorneys.

ACCT 7637 Forensic Accounting Capstone**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This capstone course will integrate the forensic accounting knowledge, skills, and abilities learned in previous courses by requiring students to complete practice cases, a fraud examination case simulation, and a pro bono forensic audit for a local business. Students will be expected to demonstrate via the quality of their work product and in-class participation that they have mastered the knowledge, skills, and abilities required to be effective forensic accountants.

Prerequisite(s): A minimum grade of "C" in both of the following courses: ACCT 7634 and ACCT 7636 or permission of the School of Accountancy director.

ACCT 7638 Business Valuation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This class focuses on determining the fair values of individual tangible and intangible assets, as well as the overall value of a business and includes calculating fair values for financial reporting. The three valuation approaches (Market Approach, Income Approach, and Asset Approach) are covered in depth along with the professional standards, developing the cost of capital, and applying valuation adjustments (discounts and premiums).

Prerequisite(s): A minimum grade of "C" in ACCT 4133, and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

ACCT 7680 Professional Problems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course is a comprehensive update of accounting regulations, laws, and standards. Competency is demonstrated by performance on the Uniform Certified Public Accountant Examination. Students registered for this course must also register for the associated external CPA exam review course, the cost of which is not covered by university tuition and fees. It is recommended to contact the instructor of record prior to registering for this course.

Prerequisite(s): Admitted to the Masters of Accounting program or permission of the School of Accountancy director.

ACCT 7730 Internship in Accounting**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised work-study program of specified length in selected business and accounting firms.

Prerequisite(s): Admitted to the Masters of Accounting program or permission of the School of Accountancy director.

ACCT 7899 Directed Study in Accounting**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed for independent study and research in selected areas of accounting under faculty supervision.

Prerequisite(s): Admitted to the Masters of Accounting program or permission of the School of Accountancy director.

AFAS African American Studies

AFAS 5000G Topics In African American Studies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Special topics in African American Studies. Will be offered in conjunction with selected upper level courses in the university curriculum when content of those courses address issues related to African American studies.

ANTH Anthropology

ANTH 5091G Selected Topics in Anthropology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Various topics. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Anthropology majors must have a minimum grade of "C" in ANTH 1102.

Cross Listing(s): ANTH 5091.

ANTH 6091 Selected Topics in Anthropology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Various topics.

ANTH 6131 North American Archeology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introductory course on the archeology of North America. Concentrates on the prehistory and protohistory of Native Americans as well as introducing students to the history of North American archeology.

ANTH 6135 Cultural Resource Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Cultural Resource Management (CRM) deals with the research, conservation and management of cultural resources within a regulatory framework. Most archaeologists will spend some or all of their careers working on CRM projects in the private sector or for a government agency. This course will provide an overview of the scope and practice of CRM work by archaeologists.

ANTH 6231 Methods and Theory in Archeology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination and application of current topics in archeology relating to excavation strategy and interpretation. Analyzes various theoretical approaches as well as field techniques.

ANTH 6233 Zooarcheology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the analysis of animal remains from archeological sites. Emphasis will be placed on the identification of specimens and the methodologies of interpretation.

ANTH 6235 Advanced Archeological Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced course in the analysis of archeological sites and materials. In-depth examination of certain types of archeological materials. Students also learn about the conservation of archeological materials.

ANTH 6262 Field Session in Archeology**3-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

On-site participation in the excavation of an archeological site including training in the physical and observational techniques of the extractive processes of archeological excavation. Experience in excavation, analysis, recording, and interpretation of archeological materials is provided.

ANTH 6531 Anthropology of Language and Gender**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will examine the cross-cultural use of language as a central aspect in the construction, negotiation and performance of gender, and will provide students with an understanding of the complexities of language and gender from an anthropological perspective.

ANTH 6638 Proseminar in Social Science**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to the foundations and controversies in social scientific research.

Cross Listing(s): POLS 6638, SOCI 6638.**ANTH 6690 Archeology Field Supervision****3-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is designed to give students who have already completed an archeological field experience a supervisory role in field investigations. They will be expected to participate in supervising pre-field preparations, fieldwork and post-field wrap-up.

ANTH 7434 Quantitative Research Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the role of theory, research design, sampling, measurement and instrumentation, data collection, and ethical issues related to social scientific research.

ANTH 7436 Qualitative Research Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analysis and practice of qualitative methodology in social science. Topics may include participant observation, ethnographic methods, interviews, case studies, content analysis, archival research and other innovative techniques.

ANTH 7631 Seminar in Anthropology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores selected topics of contemporary relevance in anthropology which reflect the expertise of anthropology faculty and which are relevant to individual or small groups of students in their course of specialization in the graduate curricula of the University.

ANTH 7632 Seminar in Archeology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores selected topics in archeology of interest to individual or small groups of students which are relevant to their course of specialization in the graduate curricula of the University and which reflect the expertise of anthropology faculty.

ANTH 7638 Social Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the role of theory in the scientific endeavor and explores a number of theoretical perspectives, including structuralfunctionalism, conflict, feminist, exchange, rational choice, symbolic interaction, and the current debates over modernity and postmodernity.

ANTH 7790 Practicum**1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is designed as an educational placement to give graduate students a practical experience in a vocationally-appropriate setting.

ANTH 7891 Independent Study in Anthropology**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent examination of graduate course topics offered in the anthropology curriculum of the Department of Sociology and Anthropology following guidelines of the College of Graduate Studies.

ANTH 7999 Thesis**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Planned research and writing directed by the student's thesis advisor.

ART Art

ART 1000 Art in Life**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A general introduction to art and aesthetics and their role in human life and culture. Includes discussion and analysis of architecture, sculpture, painting, ceramics, drawing, printmaking, photography, design, and other art forms from various historical periods and world cultures.

ART 1010 Drawing I**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

An introduction to the basic materials and methods of drawing. Students will develop skills in direct observations, composition, and techniques using still-life and natural forms.

ART 1011 Drawing II**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Through direct observation and experimentation the student is led to develop a personal approach to expression. The figure, landscape and still-life are examined in a variety of materials.

Prerequisite(s): ART 1010.**ART 1020 2D Art and Design Foundations****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Emphasizes two-dimensional design through analysis of line, texture, color, size, shape, and mass. Individual experiences with a variety of media.

ART 1030 3D Art and Design Foundations**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Uses lectures, demonstrations, discussions, and hands on experiences to introduce students to a variety of basic materials, techniques, and general concepts related to design within the contexts of 3-D form and space.

ART 1132 Digital Art and Design Foundations**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an introduction to the digital methods of image capture, creation, manipulation and research. Students will build skills in the fundamentals of digital technologies in art and design practices.

ART 1536 Animation I**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an introduction to animation. Students will cover concepts in 2D, stop motion, and sound. Course projects explore character development, storytelling and dialogue.

ART 2000 Advanced Placement Studio**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is designed to award Advance Placement credits to High School students' portfolio scoring 4 and above in drawing 2D-Design and 3D Design. Credits will be given upon the completion of a portfolio review. Requires departmental permission.

ART 2135 Painting: Introduction**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an introduction to painting through a variety of studio experiences. This course is designed to familiarize students with skills necessary for creating a painting. Emphasis is placed on technical competence using paint media, mixing color, mixing color values, and composition. Also stressed are concepts such as symbolic use of color, marks and form to increase expressionistic content within a work of art. Direct observation is utilized.

ART 2230 Ceramics: Introduction**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

In this course, students are introduced to clay and the various forming techniques, including pinching, coil construction, slab building, architectural relief, wheel throwing, and firing. Students will learn technical, conceptual, research and design skills, as well as professional skills.

ART 2235 Digital Dimensions**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course involves focused study of using computers and computer-controlled devices to create visualizations, patterns, and 3-Dimensional forms. 3-Dimensional modeling software will be used to design and produce actual objects through peripheral machines such as laser scanners, CNC routers, CNC plasma cutting, and powder-based rapid prototyping. Additionally, the course introduces a broad range of software and creation techniques currently used in the advertisement and motion picture industries, and the fields of industrial, automobile, architecture, furniture, and graphic design.

ART 2236 Small Metals Design: Fundamentals**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course introduces students to tools, materials, and techniques of small metal design. Students will learn technical, conceptual, research, design, and professional skills.

ART 2330 Typography I**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Introduction to the basic foundations of typographic design. Creative solutions to typographical design program will be explored, through the application of the practical and technical aspects of typography.

Prerequisite(s): A minimum grade of "C" in ART 1132 or permission of instructor.

ART 2331 Visual Thinking in Graphic Design**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

A general introduction to graphic design. The focus of this course will be on students' development of their creativity and skills at effective visual communications, while also learning about general concepts and issues that apply to the field of graphic design.

Prerequisite(s): A minimum grade of "C" in ART 2330 or permission of instructor.

ART 2332 Design Theory I**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

A survey of theoretical frameworks in graphic design's history from early twentieth century to present, this course examines theoretical, philosophical, social and historical aspects of graphic design with emphasis on the relationship of visual representation and design, form as content, semiotics and how graphic designers construct meaning.

Prerequisite(s): A minimum grade of "C" in ART 2331 or permission of instructor.

ART 2335 Photography: Introduction**3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

This is a studio course that explores fundamental techniques and applications of the photographic medium within the context of art. Students gain technical proficiency with camera control, learn about historical and current trends and artists, and apply the aesthetics of photographic composition to their work. Students develop critical and conceptual thinking skills, creative problem solving, and the development of a personal visual voice. Digital or analog processes may be used and will vary according to instructor and available facilities.

ART 2430 Print, Paper, Book Arts: Introduction**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an overview of printmaking processes which may include relief, intaglio, serigraphy, and lithography, as well as, an introduction to hand-papermaking and bookbinding structures. Conceptual emphasis encourages growth of student's personal content and development as an artist.

ART 2536 Animation II**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This is an intermediate course in animation, covering concepts in 2D, stop motion, and sound. Course projects will explore character development, storytelling and dialogue. Students will create a pilot episode.

Prerequisite(s): A minimum grade of "C" in ART 1536.

ART 3131 Drawing III**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Involves students in drawings of an advanced technical and conceptual nature. Students are encouraged to experiment with traditional and contemporary approaches to personal image making in a variety of drawing materials.

Prerequisite(s): A minimum grade of "C" in ART 1011 or permission of instructor.

ART 3132 Figure Drawing**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

The historical, structural, anatomical, and compositional study of the human figure as an expressive subject.

Prerequisite(s): A minimum grade of "C" in ART 1011 or permission of instructor.

ART 3137 Painting: Intermediate**3 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course is intended to provide students with an advanced exploration of paint as an expressive medium and a visual language. Emphasis is on the cultivation of content and creative exploration as informed by technical competence handling traditional formal elements such as composition, color mixing, mediums, and paint surface. Students are urged to develop a personal iconography and to deepen the expressionistic content of their work with an awareness of traditional and contemporary art.

Prerequisite(s): A minimum grade of "C" in ART 2135.

ART 3230 Ceramics: Intermediate**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an intermediate exploration in selected technical areas of ceramics and firing. Students will explore glaze problems, firing techniques and aesthetics. Emphasis will be on historical and aesthetic concerns dealing with the form.

Prerequisite(s): ART 2230.

ART 3235 Materials and Making**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an introductory overview of sculptural processes, material properties and dimensional thinking. The course introduces additive/subtractive modeling and basic fabrication techniques for concrete, wood and metal forms. Various projects introduce abstract thinking, working with found objects, and trompe l'oeil (fool the eye) techniques.

ART 3236 Small Metals Design: Intermediate I**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an intermediate level exploration of tools, materials, and techniques of small metal design. Students will learn technical, conceptual, research, design, and professional skills.

Prerequisite(s): A minimum grade of "C" in ART 2236.

ART 3330 New Media Design**3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

A study of the various aspects of new media design, specifically how formal aesthetic and concept is integrated with motion, sequence, duration, time and sound. Visual solutions will take shape in a non-print format that investigates how a user experiences new media differently than traditional media.

Prerequisite(s): A minimum grade of "C" in ART 2331.

ART 3331 Graphic Design Methods**3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

An intermediate level course which teaches page design and layout of various types, focusing on books, magazines, catalogs, and newspapers. Special emphasis will be on developing students' abilities to find creative yet functional solutions to a diverse range of paper design problems.

Prerequisite(s): A minimum grade of "C" in ART 2331.

ART 3333 Design Systems**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

A study of how to design a visual identity system which includes logos, trademarks, letterheads, business cards, signage, brochures, catalogs, electronic web designs, and other forms of communication appropriate to the business.

Prerequisite(s): A minimum grade of "C" in ART 3330 and ART 3331.

ART 3334 Professional Practices**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This advanced level course will cover the practical issues that confront professional graphic designers today. Topics include job searching, freelancing, contract negotiation, ownership of intellectual property, client dynamics, presenting design solutions and other relevant issues. Students will learn to prepare files for printing and apply professional standards within the graphic design industry.

Prerequisite(s): A minimum grade of "C" in ART 3330 or ART 3331.

ART 3335 Photographic Imaging II**3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

This is a studio course that explores the use of digital photography and Photoshop to creatively express ideas. Emphasis is on the continued development of technique and personal aesthetic. Students will analyze the writings and dogmas of historical and contemporary photo-historians and scholars to further develop their understanding of the medium.

Prerequisite(s): A minimum grade of "C" in ART 2335.

ART 3338 Typography II**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course provides an advanced study of typographic systems, principles, and usage with emphasis on refining student's understanding of type aesthetics, and its informative, expressive, and experimental potential in solving complex communication problems. Students will use type as a visual form and visible language.

Prerequisite(s): ART 2330.

ART 3430 Print, Paper, Book Arts: Intermediate**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

In this course, multiple color, reduction, digital integration, and mixed-media technical applications for all printing processes will expand students' ability to further their personal conceptual direction, as will resolving problems of delivery intention, to include both the fine art print and printed public commodity. Students will examine the presence of their print imagery and delivery, within the historical and critical context of printmaking and the powerful democratic ability of the printed image. Bookbinding and papermaking techniques will employ advanced historical/global forms/skills that will foster the intimate experience and powerful self-reflection when viewing imagery and content via the artist's book.

Prerequisite(s): A minimum grade of "C" in ART 2430.

ART 3536 Video & Motion Graphics**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an introduction to video, motion graphics, editing, and audio techniques. Student projects will cover expressive techniques in video editing, kinetic type, special effects, motion tracking and web streaming.

Prerequisite(s): A minimum grade of "C" in ART 1536.

ART 3537 Installation & Interactivity**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

In this course, students are introduced to interactivity and programming with motors, sensors, video mapping, and the Arduino. Students will create an independent body of work in interactive media with games, 3D printing, constructed environments and sound installation.

Prerequisite(s): A minimum grade of "C" in ART 1536.

ART 3731 Graphic Design Internship**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Students will apply their skills and learn practices of the profession through a professional experience in graphic design.

Prerequisite(s): ART 3331 and a minimum grade of "C" in ART 3338.

ART 4135 Painting: Advanced**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is intended to provide students advanced opportunities to explore the process of personal image making through painting media. Students will work to refine their ability to create strong and "finished" imagery by focusing on edges, actively choosing placement of hard and soft edges to move the viewer's eye through the image and actively mixing colors at edges that interact to strengthen and enhance colors used next to each other. Students will also focus on using paint mediums and on mark making to actively create a painterly surface.

Prerequisite(s): A minimum grade of "C" in ART 3131 or ART 3137 with permission of instructor.

ART 4190 Drawing IV**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

An intensive exploration of drawing media with special focus on advanced levels of personal expression. Thematic content, style, and expressive interpretation are to be determined by the student in consultation with the instructor.

Prerequisite(s): A minimum grade of "C" in ART 3131 or permission of instructor.

ART 4192 Illustration**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This drawing course provides a broad introduction to the field of illustration with a series of individual assignments that mirror professional projects and practices. Each of the class projects will require conceptual thinking (telling a story), critical thinking (verbal/visual vocabulary), creative thinking (problem solving) and strong technical skills. Student process and progress will be documented and presented within each problem. Experimentation is strongly encouraged, as is strong technique, craft and attention to detail. Various traditional drawing media will be introduced and explored, including ink, colored pencil, markers and water-based paint. Students may also choose to explore digital solutions, but they would need to provide their own technology and have a basic understanding of programs like Photoshop and Illustrator. Successful completion of all Area F coursework required.

ART 4232 Ceramics: Advanced**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is intended to provide students expanded opportunities to explore and employ advanced ceramics materials, processes and techniques, glaze calculation and firing techniques leading up to a sophisticated professional portfolio of work that includes an artist statement, resume, and website presence. Students will learn technical, conceptual, research and design skills, as well as professional skills at an advanced level.

Prerequisite(s): A minimum grade of "C" in ART 2230.

ART 4235 Hot and Cold Casting**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course emphasizes artistic expression using hot and cold casting techniques. Contemporary issues will be explored through a variety of topics that may include figurative studies, body-casting, combinations of 2- and 3-dimensional media, explorations of scale relationships, and art as a vehicle for social change. Emphasis is placed upon visual communication and personal expression.

ART 4236 Small Metals Design: Advanced I**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is an advanced level exploration of tools, materials, and techniques of small metal design. Students will learn technical, conceptual, research, design, and professional skills.

Prerequisite(s): A minimum grade of "C" in ART 2236 or permission of instructor.

ART 4330 Print, Paper, Book Arts: Advanced**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course continues the exploration of print/paper/book arts processes. Student artists will develop a body of work advancing their portfolio, including furthering individual style, concept development, and print, paper, book arts skills.

Prerequisite(s): A minimum grade of "C" in ART 2430.

ART 4334 Photographic Imaging III**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This is a studio course in which the student explores the use of the digital camera and elements of Photoshop to use as tools for personal creative expression and development of the artist's vision. Students will question and evaluate the role of photography in contemporary society and discuss the roles and responsibilities of image-makers.

Prerequisite(s): A minimum grade of "C" in ART 2335.

ART 4335 Web Page Design**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

The student will develop effective graphic design interfaces for website construction. Course content will address software and technical information with an emphasis on items such as site construction and site management, as well as current and future developments in online services, search engines, and how they affect the online community. Students will incorporate workflow and organizational skills into an active online website for a variety of topics.

Prerequisite(s): A minimum grade of "C" in ART 3330 or ART 3331 or ART 3338.

ART 4381 Graphic Design Theories**3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

An advanced level course that investigates in-depth theoretical and practical issues concerning the design profession, meaningful communication, ethics, and user-experience through the synthesis of visual and verbal solutions.

Prerequisite(s): A minimum grade of "C" in ART 3330 and ART 3331.

ART 4536 3D Animation**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course introduces students to 3D animation, covering concepts in 3D, sound, and web. Student projects will explore character development, storytelling, and dialogue.

Prerequisite(s): A minimum grade of "C" in ART 1536.

ART 4590 Selected Topics In Art**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Studio experiences to further students' artistic development in varied, unique processes and approaches.

Prerequisite(s): A minimum grade of "C" in ART 1010, ART 1020, ART 1030, ART 1132.

ART 4889 Graphic Design Portfolio**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

The student will compile a professional portfolio and exhibit creative work to the public.

Prerequisite(s): A minimum grade of "C" in ART 3334 and ART 4381.

ART 4988 Capstone in Studio Art**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This is a professional application and practice course that provides an opportunity for students to identify and apply transferable skills acquired in their studio and non-studio classes in the B.A. Studio Art degree.

The course is structured to allow each student to conceptualize and implement an individual semester-long capstone project which will be defined by the creative skills and interests gained during the program of study. Students will publicly present capstone projects at the end of the course. Students will also prepare professional materials needed for career opportunities post-graduation. Students must attain senior status and have the permission of the instructor to enroll.

Prerequisite(s): A minimum grade of "C" in ART 1010, ART 1020, ART 1030, ART 1132, ARTH 2531, ARTH 2532.

ART 4999 BFA Portfolio And Exhibition**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Portfolio development and exhibition experience for senior BFA studio students. Must take this class last semester in degree program.

ART 7151 Design Activism**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Students work together as one unit to investigate current social issues and how to bring about social change through design.

ART 7152 Design & Semiotics**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Theoretical and Philosophical principles of signs, signifiers and what is represented is applied to the study of how meaning is created in graphic design. Investigated through studio projects, students will create work that anchors or relays meaning in visual communication.

ART 7153 Design Explorations**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Theoretical and practical application of design problems.

ART 7154 Design for the User**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Focus is placed on the relationship between the user and the principles of tangible design. Coursework includes research of existing problems in design, what are the needs of the user, and how design can be restructured to fill those needs to improve user experience.

ART 7190 Graduate Studio Practice**3-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Intensive studio practice provides the structure for candidates to pursue creative research in order to expand the depth and complexity of their studio based line-of-inquiry, as well as their ability to critically evaluate, understand, and develop their work in the context of contemporary art issues and interdisciplinary practices. Course may be repeated for credit.

ART 7251 Design Communication**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course explores the problem-solving methods when fusing verbal and visual language into one cohesive body of work. Coursework will emphasize critical readings and analysis of design theories.

ART 7252 Design Systems**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Advanced explorations in branding and brand elements. Students will research critical issues in branding while developing a pliable brand that spans into a variety of collateral.

ART 7253 Design Forms**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Advanced experimentation of visual forms and aesthetics in design and how it impacts user interpretation and meaning.

ART 7254 Design of Information**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Advanced exploration into the theory and practice of information design. Students will research types of information, different information structures and how information can impact meaning and effectiveness.

ART 7351 Design Methods**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Advanced exploration of a variety of methods used to solve visual problems. This can include, but are not limited to, metaphor, rhetoric, deconstructive theory, and narrative.

ART 7352 Design and Typographic Form**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course will integrate typographic theory in graphic design practice. Using typographic skills students will effectively apply type within various contexts, such as print, web, informational, poetic. This course will emphasize the importance of content, audience and purpose.

ART 7353 Design Ethics**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course explores ethical issues relating to the current design community, from the graphic designer's relationship to other designers, to the clients of design, and the general public.

ART 7354 Design Issues**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course explores critical issues within the design profession, and their impact on design and society. Students will become more aware of their priorities and goals as working designers, and develop broader awareness of their place as designers; and design's place in the culture. Issues reviewed in coursework will further graduate students' positions as responsible leaders within the professional community.

ART 7890 Professional Practices in Art**1-9 Credit Hours. 1-9 Lecture Hours. 0 Lab Hours.**

Strategies emerging artists need to know for career success including studio practices, finances, writing and securing grants, pursuing exhibitions and venues to sell artworks, copyright and legal issues for the artist, commission projects, marketing strategies, portfolio design collateral and web presence.

ART 8030 Selected Topics in Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specific themes in the visual arts. Topics vary.

ART 8830 Readings and Research in Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Classic and contemporary readings in the field and practice in research and writing standards for these support paper.

ART 8999 Master of Fine Arts Thesis**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides the Master of Fine Arts degree candidate the opportunity of presenting a visual thesis. The candidate will present an exhibition which will be supported by a written defense. A major professor will supervise the creation of the thesis work and the written documentation.

ARTH Art History

ARTH 2531 Art History I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys the arts of the western and non-western world from the prehistoric eras through the 14th century. The emphasis is twofold: 1) recognizing the visual characteristics of period and individual styles through a study of major monuments and, 2) utilizing works of art to better understand the social, cultural and economic realities of the historical eras. The format for the course is lecture with discussion.

ARTH 2532 Art History II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys the arts of the western and non-western world from the 15th century to the present. The emphasis is twofold: 1) recognizing the visual characteristics of period and individual styles through a study of major monuments and, 2) utilizing works of art to better understand the social, cultural and economic realities of the historical eras. The format for the course is lecture with discussion.

ARTH 3110 Ancient Near Eastern Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the aesthetic traditions of Mesopotamia, Iran, Anatolia, and the Levant from Neolithic times to the end of the Achaemenid Persian Empire around 330 B.C.E. Various methodologies and approaches are considered to analyze and interpret using terms and concepts critical to understanding the subjects and formal characteristics of the Near Eastern material record. The most distinctive and characteristic genres and examination of the Near East's connections with Egypt, the Aegean, and the Mediterranean will be surveyed with additional emphasis on institutional stewardship of cultural heritage in the modern Middle East. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531.

ARTH 3120 Ancient Egyptian Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on ancient Egyptian art and architecture from the time of unification c. 3000 B.C.E. to the annexation of Egypt by the Roman Empire in 31 B.C.E. Various methodologies and approaches are considered to analyze and interpret using terms and concepts critical to understanding the subjects and formal characteristics of the ancient Egyptian material record. Students will analyze stylistic consistencies and aberrations in a variety of media, in addition to the role of art in politics, religion, everyday life and funerary practice. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531.

ARTH 3130 Ancient Aegean Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the art and architecture of mainland Greece, Crete, and the Cycladic Islands from 3300 to 1000 B.C.E. Students will study the importance of ancient Aegean culture and its place within European history and art history because of its profound links to the origins of European civilization. Various methodologies and approaches are considered to analyze and interpret using terms and concepts critical to understanding the subjects and formal characteristics of the ancient Aegean material record. Paintings, pottery, objects made from gold, silver and ivory, carved reliefs, textiles, and architecture are analyzed within the cultural and social context of the Eastern Mediterranean and Near East. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531.

ARTH 3140 Art of Ancient Greece**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course chronologically and thematically approaches the history of ancient Greek art and architecture from the third millennium to the first century BCE and selectively covers the remains of ancient Greek civilization around the Mediterranean. Content spans from Crete to the Geometric Period, and through the Protoarchaic, Archaic, Classical, and Hellenistic Periods. Themes including architectural basics, materials and techniques, written sources, religion and mythology, art and society, and the relationship of patron and artist are among the most pertinent topics. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531.

ARTH 3150 Roman Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course chronologically and thematically approaches the history of ancient Roman art and architecture from the time of Romulus to the mid fourth century CE and selectively covers the remains of Roman civilization on three continents. Content spans from Etruria through the Republic and Empire, and concludes with an introduction to the art of Early Christianity. Themes including architectural basics, materials and techniques, written sources, religion and mythology, art and society, and the relationship of patron and artist are among topics addressed. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531.**ARTH 3160 Early Christian & Byzantine Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys Byzantine art and architecture from the establishment of Constantinople in the year 330 C.E. until the fall of the city to the Ottomans in 1453. Various methodologies and approaches are considered to analyze and interpret using terms and concepts critical to understanding the subjects and formal characteristics of the Byzantine material record. Students will examine political and religious upheavals of this period and their effect on a wide range of styles and developments in art. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531.**ARTH 3210 18th Century Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will address the visual and material arts of the 18th century in Europe and America. As the century that saw the formation of the United States, the turmoil of the French Revolution, and the peak of the Enlightenment, the 18th century forms the foundation for much of our modern society. In this class, students will examine visual and material culture as active participants in the social, political, and ideological/philosophical contexts of this period in Europe and America. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532.**ARTH 3261 Italian Mannerism****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will address the visual arts of Italy created during the late Renaissance, typically known as the Mannerist period. The class will primarily cover painting, and sculpture, with the inclusion of some architectural works. The course will begin by establishing the artistic traditions of the High Renaissance era to examine Mannerist innovations and shifts in style and aesthetics as well as the maintenance, in some instances, of High Renaissance ideals. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.**ARTH 3272 Northern Renaissance Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will address the visual arts of northern Europe during the Renaissance, the 14th through the 16th century. The class will primarily cover the painting, printmaking, and sculpture of Germany, Flanders, France, and the Netherlands. The class will begin by establishing the artistic traditions of the medieval era and exhibit how the early Northern Renaissance artists both operated within these traditions and made marked innovations to the visual vocabulary, and will conclude with the 16th-century North's responses to the Protestant Reformation and to the influence of works of the Italian Renaissance. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.**ARTH 3282 Pre-Columbian Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to the art and architecture produced by the cultures of Mesoamerica, North America, and South America up to the time of contact with European cultures. Sacred architecture, precious stone and metal sculpture, carving traditions, mural paintings and works of art on paper are examined with a consideration to both form and context. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531 or ARTH 2532 or permission of instructor.**ARTH 3377 Graphic Design History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a survey of the history of graphic design communications from prehistory to the present, and will evaluate the impact of culture and technology on the development of graphic design in different historical contexts. Content includes the relation of art and graphic design, techniques of graphic representation, current trends, and the importance of graphic communication in contemporary society.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.**ARTH 3380 Women in Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Over the course of the semester, students will examine a wide variety of issues raised in Linda Nochlin's seminal essay, "Why have there been no great women artists?" While the class will discuss works from a wide variety of contexts, the primary focus will be on European and American artists and cultures in order to examine various issues raised by the role of Women in Art and Art History. Organized thematically, this class will introduce students to various social, political, philosophical, and economic contexts of Women artists in the history of art, and evaluate the systems that determine the role and value of art in society. The course will culminate in a discussion of gender and intersectional issues in today's art world. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532.**ARTH 3435 African Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an overview of the arts and visual cultures of Africa, ranging from ancient architecture, masquerades, and traditional sculpture to modern photography, contemporary digital works and multi-media installations. Special attention is given to key moments of contact between different cultures within Africa and between Africa and the Americas and Europe, allowing students to develop a nuanced insight about Africa's global presence and reach. It also considers the challenges and politics of interpreting African arts in our current globalizing world. The course is organized as a series of case-studies focusing on well-known traditions and artists from the following countries: Mali, South Africa, Zimbabwe, Ivory Coast, Democratic Republic of Congo, Guinea, Senegal, Ghana, Niger, Nigeria, Sierra Leone, Kenya, and Tanzania. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531 or ARTH 2532 or permission of instructor.**Cross Listing(s):** AAST 3435.

ARTH 3436 African American Art History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the distinctive paths taken by artists of African descent in the Americas. A consideration of the arts developing out of the cultures represented by Afro-descendants and that drew directly on African sources will precede an overview of Black American artists who have worked within mainstream styles and methods of practice, often employing these to express the concerns of the Black community and its history. Intertwined in our discussions will be the recognition of how Africa has been a part of African American art at different times during the last two hundred years. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531 or ARTH 2532.**Cross Listing(s):** AAST 3436.**ARTH 3437 American Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

What does it mean to be 'American'? America as an artistic, social, and political identity has been at the heart of the American experiment from the Colonial Period through the present. In this class we will examine the visual and material culture of 'America' and analyze its relation to philosophical, historical, social, and cultural developments since the 18th century. Attention will be given to the writings of artists and critics, as well as texts by contemporary art historians, historians, and other scholars which illustrate the variety of methodologies and interpretations that are currently being brought to bear on American art, architecture, and material culture. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.**ARTH 3470 Islamic Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys the visual arts of the Islamic world, secular and religious, including ceramics, sculpture, jewelry, painting, illuminated manuscripts, and architecture. The course will begin by establishing a background in the early Iranian and Byzantine world for the birth of Islam in the 7th c. and continue through the art and architecture of Islam through the ages in various countries. The course will address questions of style, meaning, and cultural content for the works covered. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531.**ARTH 3531 Medieval Art & Architecture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course thematically highlights the attitudes and events specific to the sophisticated visual culture of the Middle Ages from the beginning of Iconoclasm in 726 C.E. through the 14th century. It examines the importance of art in expression and spread of socio-cultural, political, economic and religious notions, including valor and justice, and the dominance of Christianity in the Western World. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2531 or permission of instructor.**ARTH 3532 Italian Renaissance Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will encompass a study of the visual arts, primarily sculpture, painting, and architecture, both secular and religious, from the Italian Renaissance. The course will begin by establishing the artistic traditions of the Medieval era and exhibit how the early Renaissance artists both operated within these traditions and made marked innovations to the visual vocabulary, moves which eventually led to the new individualism of the artist and the renowned works of the High Renaissance, the study of which will conclude the semester. The class will address differences in style between many of the Italian cities: Florence, Rome, Siena, Mantua, among others. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.**ARTH 3533 Baroque Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will address Baroque visual arts of Europe with an emphasis on painting, sculpture, and architectural works. The course will begin by establishing the artistic traditions of the Late Renaissance era to lay the groundwork for the revised aesthetic and innovations of the Baroque in the 17th century. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.**ARTH 3534 19th Century Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This class examines the visual and material culture of the 19th century in Europe and America. The course begins with the social changes wrought by the French Revolution and explores the various socio-political, artistic, philosophical, and ideological changes throughout the 19th century. In addition to specific artistic styles and issues, we will also analyze issues of increasing globalization, the shifting attitudes toward gender and race, economics, and politics of the period and the active role of art in these contexts. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.**ARTH 3599 Professional Practice in Art History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce students to both professional practices and career opportunities in art history. Students will learn about typical professional standards and activity of art historians, including what constitutes intellectual property and fair use, participation in professional organizations, presentation of research, and publication. Discipline-related fields such as archiving, conservation and restoration, museum studies, and art collection will be explored. Students will compose a vitae and statement of purpose, identify and practice application to potential graduate programs and internships, and explore research and service opportunities in art history. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): Field of study, permission of the instructor.**ARTH 4091 Special Topics in Art History****1-4 Credit Hours. 0-18 Lecture Hours. 0-18 Lab Hours.**

This course focuses on various special topics in art history. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises. Topics are chosen at the instructor's discretion. Course number is repeatable but topic titles are not repeatable.

Prerequisite(s): A minimum grade of "C" in ARTH 2531 or ARTH 2532.

ARTH 4251 Modern Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the radical changes that occurred in Western painting, sculpture, photography, architecture and design from the beginning of Modernism in the late 19th century through the twentieth century. The approach will be lively and broad, utilizing ideas from diverse disciplines including theology, philosophy, literature, music, fashion design, politics, economics, sociology, psychology, the history of technology, and physics. Some of the most culturally significant artists, movements, and masterpieces of modern art will be addressed in readings, lectures, videos and discussion. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.

ARTH 4276 Art Theory and Criticism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore selected themes and issues in modern and contemporary theory and criticism as they impact the ways in which art is produced, viewed, and assessed. Topics include Realism, Expressionism & Cognitivism, Formalism, Postmodern Pluralism, and more. The format for the course is seminar.

Prerequisite(s): A minimum grade of "C" in ARTH 2531, ARTH 2532.

ARTH 4435 Art History Travel Study**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of important art works on location at museums, galleries, monuments and other sites. Specific topics and locations to be announced.

Prerequisite(s): A minimum grade of "C" in ARTH 2531 and ARTH 2532 or permission of instructor.

ARTH 4531 Post-Modern Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Through lectures and class discussion, this course explores the development of contemporary art from the 1970s to the present day. We will investigate various social, political, and theoretical issues pertaining to Post-Modern art. The class will also consider the changing role of art, exhibitions, artists, and curators; art as the product of economic relations between parties with different vested interests in the material object; visual strategies used in the media and advertising; and the impact of technology on contemporary culture. Students will engage in a variety of activities both in and out of the classroom including lecture, discussion, research, and/or writing exercises.

Prerequisite(s): A minimum grade of "C" in ARTH 2532 or permission of instructor.

ARTH 4631 Art History Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A seminar-format course on selected topics in art history with emphasis on directed readings and classroom discussion.

Prerequisite(s): A minimum grade of "C" in ARTH 2531, ARTH 2532.

ARTH 4830 Independent Study in Art History**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent research and study on selected topics in art history.

Prerequisite(s): Field of study, minimum grade of "C" in ARTH 2531 and ARTH 2532, and permission of instructor, and departmental approval.

ARTH 4831 Art History Capstone**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Research, writing, or project development focused on a specific topic under the supervision of an Art History faculty member. Capstone projects are developed according to professional practices and standards in Art History, to provide advanced materials for future student success in their field. This may include: a written thesis, curating an exhibition, conference presentation, etc.

Prerequisite(s): Field of study, permission of the instructor.

ARTH 7232 Medieval Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will encompass a study of the visual arts in Europe, primarily sculpture, painting, and architecture from the fall of the Roman Empire to the thirteenth century. While some secular works will be covered, primarily the course will address Christian art because of the Church's strong sway in the Medieval world. The class will be held in a lecture format with images projected during lecture for a combination of visual and verbal information.

ARTH 7233 Italian Renaissance Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will encompass a study of the visual arts, primarily sculpture, painting, and architecture, both secular and religious, from the Italian Renaissance. The course will begin by establishing the artistic traditions of the Medieval era and exhibit how the early Renaissance artists both operated within these traditions and made marked innovations to the visual vocabulary, moves which eventually led to the new individualism of the artist and the renowned works of the High Renaissance, with which we will conclude the semester. The class will address differences in style between many of the Italian cities: Florence, Rome, Siena, Mantua, among others. The class will be held in a lecture format with images projected during lecture for a combination of visual and verbal information.

ARTH 7234 Baroque and Rococo Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will address the visual arts of the Baroque and Rococo periods in both Northern and Southern Europe. The class will primarily cover painting, and sculpture, with the inclusion of some architectural works. The course will begin by establishing the artistic traditions of the Late Renaissance era to lay the groundwork for the revised aesthetic and innovations of the Baroque, and go on to examine further shifts in style as we move into the Rococo. The class will be held in a lecture format with images projected during lecture for a combination of visual and verbal information.

ARTH 7235 19th Century Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the art, artists and issues in 19th century art through lectures and discussion. Topics for discussion include: Classicism & Romanticism, Representations of other cultures, Issues of gender, Realism, Impressionism & Post-Impressionism, Modernism, Abstraction, and Symbolism. The format of the course is lecture with discussion.

ARTH 7236 20th Century Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys European and American art, artists and issues/movements in the 20th century. The purpose of this course is to provide an understanding of not only stylistic principles of the century, but also those human values and cultural events which served as inspiration. Lectures, readings, discussions, and assignments focus on the intentions, creative biographies, and historical circumstances of 20th century artists. The format for this course is lecture with discussion.

ARTH 7237 Contemporary Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Through lectures and class discussion, this course explores the development of contemporary art from the 1970s to the present day. We will investigate issues pertaining to contemporary art such as place, memory, consumption, spirituality, identity, power, stories, loss and desire, time, humor, ecology and protest. Course content also considers the nature of "mega-exhibitions" and the changing role of art, artists, and curators as cultural activists; art as the product of economic relations between parties with different vested interests in the material object; visual strategies used in the media and advertising; and the impact of technology on contemporary culture in general and art in particular.

ARTH 7238 African Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys the major themes, cultural groups, and art traditions of Africa. Focuses on materials, functions, meaning and the distinctive aesthetic values of cultural objects and their ritual significance in African societies.

ARTH 7330 American Art**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the history of American Art from the Colonial Period through the present. Works of art and other forms of material culture will be explored and discussed within the context of philosophical, historical, social, and cultural developments. Attention will be given to the writings of artists and critics, as well as texts by contemporary art historians, historians, and other scholars which illustrate the variety of methodologies and interpretations that are currently being brought to bear on American art, architecture, and material culture. The format for this course is lecture with discussion.

ARTH 7377 Graphic Design Art History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a survey of the history of graphic communications from prehistory to the present, and will evaluate the impact of culture and technology on the development of graphic design in different historical contexts. Content includes the relation of art and graphic design, techniques of graphic representation, current trends, and the importance of graphic communication in contemporary society.

ARTH 7630 Art History Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A seminar-format course on selected topics in art history with emphasis on directed readings and classroom discussion.

ARTH 7899 Art History Travel Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of important art works on location at museums, galleries and other sites. Specific topics and locations to be announced.

ARTH 8630 Art Theory and Criticism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore selected themes and issues in modern and contemporary theory and criticism as they impact the ways in which art is produced, viewed, and assessed. Topics include Realism, Expressionism and Cognitivism, Formalism, Postmodern Pluralism, and more. The format for the course is seminar.

Prerequisite(s): A minimum grade of "C" in ARTH 2531 and ARTH 2532.

ARTH 8831 Art History Research**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent research and study on selected topics in art history.

ARTS Art

ARTS 1100 Art Appreciation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Art 1100 is a 3 semester-credit-hour course focused on fostering an awareness, understanding, and appreciation for the visual arts. Through exposure to cross-cultural art images throughout history, students will build a global artistic vocabulary that allows for the constructive analysis of art objects. Students will also gain an understanding of the influence of art on other important aspects of culture including politics, history, religion, and science.

ARTS 2400 Introduction to Fibers**3 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

Basic craft processes and techniques with emphasis on fibers and metalwork.

ARTS 3140 Intermediate Darkroom Photography**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

Advanced study of the aesthetics and processes in black and white photography.

Prerequisite(s): A minimum grade of "C" in ART 2335.

ARTS 3160 Manipulated Silver Print**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

Exploration of media and techniques to enhance and alter a silver print. Processes include building and shooting with pinhole cameras, paper negatives, solarization, composite printing, chromoskedastic sabattier, chemigrams, toning, and hand-coloring techniques.

Prerequisite(s): A minimum grade of "C" in ARTS 2040.

ARTS 3200 Art for the Child**2 Credit Hours. 2 Lecture Hours. 1 Lab Hour.**

The child and his or her development in relation to qualitative art experiences including studio experiences. Emphasis on materials and methods suitable for teaching art at the elementary school level. (May not be used for credit by art education majors).

ARTS 3470 Arts Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Theory and practice in art programming management, including audience analysis and development, publicity, promotions and marketing tools examined.

Prerequisite(s): A minimum grade of "C" in ENGL 1101.

ARTS 3610 Screen Printing**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

An introduction to screen printing methods including hand-cut stencils and photographic processes for printing on a variety of surfaces. Emphasis is placed on concept development, repeat pattern, and contemporary approaches to designing fabrics.

ARTS 3630 Fabric Design**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

Fabric design methods and stitch techniques including batik, shibori, discharge, embellishment, and contemporary quilting.

ARTS 3640 Weaving**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

Basic weaves, the hand loom, and off the loom weaving techniques.

ARTS 3680 Environmental Art**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

An interdisciplinary introduction to environmental art, examining the role of art in promoting and maintaining sustainable human societies.

ARTS 3700 Figure Sculpture**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

Basic sculpture ideas, terminology, processes. Emphasis on the human figure using clay and other media.

ARTS 3720 Fiber Sculpture**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

The application of fiber methods to create three-dimensional pieces, using traditional and non-traditional materials.

Prerequisite(s): A minimum grade of "C" in ARTS 2400.

ARTS 3760 Internship I-Pre-Student Teach**1 Credit Hour. 0 Lecture Hours. 1-6 Lab Hours.**

Directed practice in the teaching of students in P-12 public school setting.

ARTS 3800 Electronic Image Manipulation**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

Advanced techniques and theory of computer imaging, graphics, illustration, and mixed media.

ARTS 3840 Advanced Photographic Media
3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.

Advanced techniques in the photographic medium, either in digital, darkroom, or a combination. Approaches include mixed media and installation, with an emphasis on developing a body of work.

Prerequisite(s): A minimum grade of "C" in all of the following: ART 2335, ART 3335 or ARTS 2040, ARTS 3160.

ARTS 4700 Senior Portfolio
3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.

One part of the two-part capstone experience taken prior to or concurrently with ARTS 4740 for senior art majors. Portfolio development, career planning, and professional practices for the artist will be covered.

ARTS 4710 Senior Seminar
3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.

One part of the two-part capstone experience taken prior to or concurrently with ARTS 4740 for senior art majors. Development and preparation of a body of work for exhibition in a variety of professional venues.

ARTS 4740 Senior Exhibition
0 Credit Hours. 0 Lecture Hours. 2 Lab Hours.

Open only to art majors. Senior-level exhibition in a gallery setting. Course taken to satisfy graduation requirements.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in ARTS 4700 or ARTS 4710.

ARTS 4760 Internship II--Student Teac
12 Credit Hours. 0 Lecture Hours. 1-12 Lab Hours.

Supervised field based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public setting. A capstone course.

ARTS 5300 Issues in Art Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Critical examination of educational theory and practice through selected historical and socio-political influences. Examinations of policy, career paths in art education, and global art forms.

Cross Listing(s): ARTS 5300G.

ARTS 5400 Art in the Elementary Grades
3 Credit Hours. 3 Lecture Hours. 1-18 Lab Hours.

Planning and implementing arts instruction at the elementary level. Overview of materials, methods, classroom management and technology appropriate to children at different levels in the elementary classroom. Thirty hours of practicumwork is required.

Cross Listing(s): ARTS 5400G.

ARTS 5410 Art for Middle and Secondary Grades
3 Credit Hours. 3 Lecture Hours. 1-18 Lab Hours.

Planning and implementing art instruction at the middle and secondary level. Overview of materials, methods, classroom management, and technology appropriate for the middle and secondary classroom. Thirty hours of practicum work is required.

Prerequisite(s): Admission to Candidacy and a pre-certification certificate from the Georgia Professional Standards Commission.

Cross Listing(s): ARTS 5410G.

ARTS 5560 Issues in Aesthetics and Art Education Criticism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to basic issues related to the teaching aesthetics, art criticism, and art history to P-12 students. Students will design, implement, and evaluate developmentally appropriate instruction for teaching these issues.

Prerequisite(s): A minimum grade of "C" in ARTS 5400 or ARTS 5410 or a minimum grade of "B" in ARTS 5400G or ARTS 5410G.

Cross Listing(s): ARTS 5560G.

ARTS 5800 American Arts in History Perspective
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Survey of American visual arts including painting, sculpture, architecture, and the decorative arts. Examines artistic material culture as a means to critical understanding of American life.

ARTS 5850 Museum Studies
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

Development of museums in the United States and of the ethics and practices of the museum profession, to include collections management, planning, outreach, and public education.

ARTS 5300G Issues in Art Education
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Critical examination of educational theory and practice through selected historical and socio-political influences. Examinations of policy, career paths in art education, and global art forms.

ARTS 5400G Art in the Elementary Grades
3 Credit Hours. 3 Lecture Hours. 1-9 Lab Hours.

Planning and implementing arts instruction at the elementary level. Overview of materials, methods, classroom management and technology appropriate to children at different developmental levels in the elementary classrooms. Thirty hours of practicum work is required.

ARTS 5410G Art in the Middle and Second Grades
3 Credit Hours. 3 Lecture Hours. 1-9 Lab Hours.

Planning and implementing art instruction at the middle and secondary level. Overview of materials, methods, classroom management and technology appropriate for the middle and secondary classroom. Thirty hours of practicum work is required.

ARTS 5430G Technology in Art Education
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

Examination, development, and use of technological resources for teaching art in P-12 classrooms.

ARTS 5560G Issues Aesthetics/Art Ed Crit
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to basic issues related to the teaching aesthetics, art criticism, and art history to P-12 students. Students will design, implement, and evaluate developmentally appropriate instruction for teaching these issues.

ARTS 5750G Contemporary Art & Criticism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Exploration of contemporary art historical and critical issues.

ARTS 6689 Special Topics in Art
1-3 Credit Hours. 0-2 Lecture Hours. 0-4 Lab Hours.

A study of topics from selected areas of studio art, art history, or art education.

ARTS 6750 Graduate Internship
4 Credit Hours. 0 Lecture Hours. 4 Lab Hours.

Supervised field-based capstone experience.

ARTS 7900 Independent Study in Art
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Qualified students create a body of art work following research and supervised studio experimentation. Proposed work must be approved in writing by supervising faculty and department head prior to initiation of work.

ASTR Astronomy

ASTR 1000 Introduction to the Universe
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of the universe, examining the historical origins of astronomy; the motions and physical properties of the Sun, Moon, and planets; the formation, evolution, and death of stars; and the structure of galaxies and the expansion of the universe.

ASTR 1010 Astronomy of the Solar System
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Astronomy from early ideas of the cosmos to modern observational techniques. The solar system planets, satellites, and minor bodies. The origin and evolution of the solar system.

Prerequisite(s): Prior or concurrent enrollment in ASTR 1211.

ASTR 1020 Stellar and Galactic Astronomy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The study of the Sun and stars, their physical properties and evolution, interstellar matter, star clusters, our galaxy and other galaxies, and the origin and evolution of the Universe.

Prerequisite(s): Prior or concurrent enrollment in ASTR 1211.

ASTR 1211 Astronomy Lab
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.

A series of laboratories designed to measure the physical properties of planets, stars, and galaxies.

Prerequisite(s): Prior or concurrent enrollment in ASTR 1010 or ASTR 1020.

ASTR 3131 Optics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Geometric, physical, and quantum optics in which the general principles of wave optics and several optical devices are studied.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.

Cross Listing(s): PHYS 3131.

ASTR 3137 The Search for Life in the Universe**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will describe the current quest to find intelligent life in the universe. It will begin with a discussion of the nature and origin of life on Earth. After considering the search for life in our solar system, techniques used to search for extrasolar planets and extraterrestrial life will be explored. The course will also include a discussion of the physical limitations to interstellar spaceflight and alternative methods of communication.

Prerequisite(s): ASTR 1000 or ASTR 1010 or ASTR 1020.

ASTR 3538 Physical Astronomy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The physical nature of the solar system, stars and galaxies will be studied in detail. Principles of physics will be used and illustrated, especially in the areas of mechanics, thermodynamics, physical optics, and spectral analysis.

Prerequisite(s): PHYS 2211K or PHYS 1111K, and PHYS 2212K or PHYS 1112K.

ASTR 3558 Introduction to General Relativity**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the metric description of different spacetimes that describe flat and various curved geometries so as to derive the laws of mechanics for planets, stars, black holes, etc. The course also introduces a very simple model of the expanding universe and briefly introduces cosmology.

Prerequisite(s): PHYS 3537 or permission of instructor.

Cross Listing(s): PHYS 3558.

ASTR 3790 Teaching Internship in Astronomy**1-2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The internship allows students to investigate teaching practices in astronomy. The student will participate in an introductory workshop immediately prior to the start of the semester, intern in the planetarium, and meet with the faculty mentor one hour each week.

Prerequisite(s): ASTR 1000 or ASTR 1010 or ASTR 1020 and permission from instructor.

ASTR 4130 Astrophysics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover advanced topics in Astrophysics. Students will become familiar with the fundamental physics of stars. This includes stellar atmospheres, interiors, and evolution. Students will study the atomic properties of matter and its interaction with light. Students will also study techniques for observing stars using telescopes and interferometers.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.

ASTR 4138 Galactic Astronomy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Galactic Astronomy will cover advanced topics in galactic structure and evolution. This includes galaxy morphology, stellar and gaseous content, stellar orbits, disk dynamics, central massive black holes, large scale structure, interactions and evolution in a cosmological setting. Students will also be introduced to the historic development of our modern view of the universe.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.

ASTR 4330 Observational Techniques in Astronomy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover advanced topics in astronomical observing techniques. This includes the basic physical principles and methods needed to plan, obtain, and reduce photometric data of celestial objects. Students will be introduced to the principles of spherical astronomy, photoelectric detectors, atmospheric extinction and standard system transformations, and the Image Reduction and Analysis (IRAF) software package.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.

ASTR 5090 Selected Topics in Astronomy**2-5 Credit Hours. 0-5 Lecture Hours. 0-6 Lab Hours.**

A course allowing for investigation of selected topics in Astronomy; it will be taught on a one-time basis. Lecture only courses can be for two, three, or five credit hours. For laboratory courses, one credit hour will be given for every three hours spent working in lab.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.

Cross Listing(s): ASTR 5090G.

ASTR 5890 Astronomy Research Experience**1-4 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.**

An independent physics research experience in which a student will investigate a research question under the direction of a faculty member. Students will be expected to maintain a laboratory notebook, prepare a written summary of the research, and give an oral presentation at the end of the experience.

Prerequisite(s): Permission of instructor is required.

Cross Listing(s): ASTR 5890G, PHYS 5890, PHYS 5890G.

ASTR 5090G Selected Topics in Physics**2-5 Credit Hours. 0-5 Lecture Hours. 0-6 Lab Hours.**

A course allowing for investigation of selected topics in Astronomy; it will be taught on a one-time basis. Lecture only courses can be for two, three, or five credit hours. For laboratory courses, one credit hour will be given for every three hours spent working in lab. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.

Cross Listing(s): ASTR 5090.

ASTR 5890G Astronomy Research Experience**1-4 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.**

An independent physics research experience in which a student will investigate a research question under the direction of a faculty member. Students will be expected to maintain a laboratory notebook, prepare a written summary of the research, and give an oral presentation at the end of the experience. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do. Permission of instructor is required.

Cross Listing(s): ASTR 5890, PHYS 5890, PHYS 5890G.

BCHM Biochemistry

BCHM 5201G Biochemistry I

4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.

An intensive study of the structure and function of proteins, lipids, carbohydrates, nucleic acids, and biological membranes; enzyme mechanisms, regulation and thermodynamics as it relates to biomolecules. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): BCHM 5201.

BCHM 5202G Biochemistry II

4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.

Metabolism and information pathways in the cell. The details of glycolysis, gluconeogenesis, fatty acid breakdown, amino acid oxidation, the citric acid cycle, and oxidative phosphorylation will be covered in the section of metabolism. Information pathways will cover chromosomal structure, DNA, RNA, protein metabolism and the regulation of gene expression. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BCHM 5202.

BIOL Biology

BIOL 1011K Introduction to Biology

4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.

An introduction to fundamental unifying principles in biology. Topics covered in the course include: chemistry of life, cell structure and membranes, cellular functions (metabolism, respiration, photosynthesis, communication, and reproduction), genetics (inheritance patterns, DNA structure and function, gene expression, and biotechnology), and evolution. This course involves both lecture and lab components.

BIOL 1012K Introductory Biology and Lab

4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.

This course covers the evolution and diversity of organisms, including microbes, protists, fungi, plants, and animals. Additional topics include body systems, the immune system, reproduction and development, and ecology. For non-biology majors only.

Prerequisite(s): A minimum grade of "C" in BIOL 1107 and BIOL 1107L.

BIOL 1103 Concepts of Biology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

May include topics such as evolution, ecology and the environment, genetics and heredity, diversity of life, cells and cellular energy, biomolecules, and the scientific process. (Credit in this non-majors course may not be applied to the Area F requirement in biology. Course not intended for science majors or clinical health majors).

BIOL 1103L Concepts of Biology Laboratory

1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.

Laboratories that teach the basic principles of biology and their relevance to biological issues (e.g., disease, food safety, genetic modification, cloning, resistance to antibiotics, evolution, plant resources, and forensic science). Guided inquiry laboratory activities emphasize the scientific method of inquiry and promote the development of observation, analysis, and communication skills. Credit toward graduation will not be granted for both BIOL 1103L and BIOL 1110L.

BIOL 1107 Principles of Biology I

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers foundational concepts in molecular and cellular biology. Topics include the scientific method, organic macromolecules, cell structure and function, respiration, photosynthesis, cell division, and the flow of information from DNA to proteins. Requires a minimum grade of C to enroll in higher-level BIOL courses.

Prerequisite(s): Prior or concurrent enrollment in all of the following: BIOL 1107L, ENGL 1101, and MATH 1001 or higher.

BIOL 1107L Principles of Biology I Laboratory

1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.

Laboratory course emphasizing an experimental approach to learning major principles of molecular and cellular biology. Requires a minimum grade of C to enroll in higher-level BIOL courses.

Prerequisite(s): Prior or concurrent enrollment in BIOL 1107, ENGL 1101, and MATH 1001 or higher.

BIOL 1108 Principles of Biology II

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to evolution and its role in creating biodiversity. Students will explore how evolution creates a hierarchical pattern of shared ancestry among all living things. Topics include natural selection and evolutionary change, speciation, phylogeny and classification, and the structure and function of the major forms of life (domains, kingdoms, and major phyla). Requires a minimum grade of C to enroll in higher-level BIOL courses.

Prerequisite(s): A minimum grade of "C" in BIOL 1107 and BIOL 1107L; and prior or concurrent enrollment in BIOL 1108L.

BIOL 1108L Principles of Biology Laboratory II

1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.

Laboratory survey of evolution and biodiversity, including natural selection, principles of classification, and the structure and function of the major forms of life (domains, kingdoms, and major phyla). Requires a minimum grade of C to enroll in higher-level BIOL courses.

Prerequisite(s): Prior or concurrent enrollment in BIOL 1108.

BIOL 1110L Concepts of Biology Trad. Lab

1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.

Laboratories that teach the basic principles of biology and their relevance to biological issues (e.g., disease, food safety, genetic modification, cloning, resistance to antibiotics, evolution, plant resources, and forensic science). Laboratory and field activities emphasize the scientific method of inquiry and promote the development of observation, analysis, and communication skills. Credit toward graduation will not be granted for both BIOL 1103L and BIOL 1110L.

BIOL 1230 Environmental Biology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of environmental issues from a biological perspective. The course will provide an introduction to environmental science, population growth, communities and ecosystems, evolution and biodiversity, and the fundamental interactions of humans with their environment (land, water, energy, food, and climate).

BIOL 1230L Environmental Biology Lab

1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.

Laboratories that teach the basic concepts of environmental biology and ecology, and their relevance to current environmental concerns (e.g., biodiversity loss, climate change, invasive species, energy use, water resources, air pollution, sustainability). Laboratory and field activities emphasize the scientific method of inquiry and promote the development of observation, analysis, and communication skills.

BIOL 1320 Diversity of Life

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Survey of the major domains of life, including prokaryotic and eukaryotic groups, as well as viruses.

Prerequisite(s): Prior or concurrent enrollment in ENGL 1101.

BIOL 1330 Human Biology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Structure and function of human organ systems, human heredity, evolution, and ecology.

Prerequisite(s): Prior or concurrent enrollment in ENGL 1101.

BIOL 1331 Insects and People**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the role insects and other arthropods serve in relation to humans. Insect human interactions in the home, yard, garden, workplace, recreational areas, and human body are included. Considerations of the natural history, life cycles and optional human actions regarding pests, beneficial insects, insects and disease, insects and food, and aesthetics is included.

BIOL 1335 Plants and Civilization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to major groups of economic plants and their role in the origin and maintenance of civilization. The course also deals with plant biodiversity and the potential impact of biological losses.

BIOL 2010 Principles of Microbiology**4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Genetics, classifications and methods of control of bacteria, fungi, protozoa and viruses, with introduction to medical, industrial and environmental microbiology. Students receiving credit for this course may not receive credit for BIOL 4240. (Not intended for pre-health professions students.)

Prerequisite(s): BIOL 1108 and BIOL 1108L, and CHEM 1211K, or CHEM 1211 & CHEM 1211L.

BIOL 2081 Human Anatomy and Physiology I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A two semester sequence in which human anatomy and physiology are studied using a body systems approach, with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. Course content includes: basic anatomical and directional terminology; fundamental concepts and principles of chemistry and cell biology; histology; the integumentary, skeletal, muscular, somatic, and autonomic nervous systems and special senses.

Cross Listing(s): KINS 2531.

BIOL 2081L Human Anatomy and Physiology I Laboratory**1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.**

The laboratory component of the first course in a two semester sequence in which human anatomy and physiology are studied using a body systems approach, with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. The laboratory course is intended to provide students with hands on experiences that will enhance and reinforce the content of Human Anatomy and Physiology I. The experiences will be structured to encourage critical thinking, understanding of scientific methodology and the application of scientific principles.

Cross Listing(s): KINS 2511.

BIOL 2082 Human Anatomy and Physiology II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A two semester sequence in which human anatomy and physiology are studied using a body systems approach, with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. This course is a continuation of Human Anatomy and Physiology I and includes the endocrine system, cardiovascular system, the lymphatic system and immunity, the respiratory system, the digestive system and metabolism, the urinary system, fluid/electrolyte and acid/base balance and the reproductive systems.

Prerequisite(s): A minimum grade of "C" in BIOL 2081 or KINS 2531.

Cross Listing(s): KINS 2532.

BIOL 2082L Human Anatomy and Physiology II Laboratory**1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.**

The laboratory component of the second course in a two semester sequence in which human anatomy and physiology are studied using a body systems approach, with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. The laboratory course is intended to provide students with hands on experiences that will enhance and reinforce the content of Human Anatomy and Physiology II. The experiences will be structured to encourage critical thinking, understanding of scientific methodology, and the application of scientific principles.

Prerequisite(s): A minimum grade of "C" in BIOL 2081L or KINS 2511.

Cross Listing(s): KINS 2512.

BIOL 2099 Special Topics in Biology**4 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.**

Course taught on a special topic in biology on a one-time basis.

Prerequisite(s): Permission of instructor.

BIOL 2120 Plant Biology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Evolution and diversity of plants, including comparative morphology, anatomy, physiology, growth and development, and reproduction. Plants will be examined at the cellular, organismal, and community levels. Laboratories may include field trips. Students may not count both BIOL 2120 and BIOL 3535 toward the Biology major.

Prerequisite(s): BIOL 1108 and BIOL 1108L.

BIOL 2240 Microbiology**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

Emphasizes fundamental principles of microbiology. Topics include structure, physiology, and economic importance of microorganisms. (Non-majors course intended for health professions students).

BIOL 2275 Microorganisms and Disease**4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Morphology, genetics, physiology, and public health importance of microorganisms with emphasis on bacterial pathogens. (Non-majors course intended for health professions students).

Prerequisite(s): A minimum grade of "C" in BIOL 2082 or KINS 2532 and BIOL 2082L or KINS 2512.

BIOL 2320 Honors Research Methods Biology**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Provides Departmental Honors in Biology students an overview of basic research methods, experimental design, visual presentation and analysis of biological information in diversity of biology sub-disciplines. This course provides the foundation for understanding the analyses typically presented in biological publications as well as the precepts necessary to plan a research project effectively.

Prerequisite(s): BIOL 1107 and BIOL 1107L and acceptance into the Honors College is required.

BIOL 3099 Selected Topics in Biology**1-4 Credit Hours. 0-3 Lecture Hours. 0,3 Lab Hours.**

Course taught on a selected topic in biology on a one time basis.

Prerequisite(s): BIOL 1108 and BIOL 1108L and CHEM 1211K or CHEM 1211 and CHEM 1211L.

BIOL 3100 People and the Environment**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Interactions between humans and the support systems of the earth which are essential to their existence. Not for credit as a biology major elective.

Prerequisite(s): BIOL 1107.

BIOL 3131 Physiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the fundamental principles of physiology. The focus is on how organisms maintain homeostasis in the face of changes in their internal and external environment. This course will cover energetics, the basic physiological processes of cells, how cell signaling can coordinate more elaborate functions, the hierarchical organization of cells into organs and organ systems, and how these organ systems can carry out complex adaptive functions. Students will see the fundamental relationship between structure and function and learn how physiological systems are constrained by phylogeny, physical limits, and functional trade-offs. Requires a minimum grade of C to enroll in higher-level BIOL courses.

Prerequisite(s): BIOL 1108 and BIOL 1108L and CHEM 1211K or CHEM 1211 and CHEM 1211L.

BIOL 3133 Evolution and Ecology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to major principles of evolution and ecology. This course covers the origin and maintenance of genetic variation, genetic change in populations over time (microevolutionary processes of selection, drift, and gene flow), and taxonomic diversification (macroevolutionary process of speciation). Students will see how this evolution and diversification are shaped by ecological interactions between organisms and their abiotic and biotic environment. These ecological interactions will be studied at the population, community, and ecosystem levels. Requires a minimum grade of "C" to enroll in higher-level BIOL courses.

Prerequisite(s): BIOL 1108 and BIOL 1108L and CHEM 1211K or CHEM 1211 and CHEM 1211L.

BIOL 3134 Cell and Molecular Biology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to cell structure and biochemistry. Topics may include gene regulation; bioenergetics; catalysis; cellular metabolism; cell evolution; genetic engineering; protein synthesis, structure and function. Requires a minimum grade of C to enroll in higher-level BIOL courses.

Prerequisite(s): BIOL 1108 and BIOL 1108L and CHEM 1211K or CHEM 1211 and CHEM 1211L.

BIOL 3440 Field Biology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Field study of the basic natural history of plants and/or animals of the southeastern United States. Lectures, laboratories, and field trips emphasize the ability to locate, observe, collect, and identify organisms in the field, as well as manage field data.

Prerequisite(s): BIOL 1108 and BIOL 1108L.

BIOL 3535 Botany**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the biology of plants. Topics include the evolution and diversity of plants, as well as the unique morphology, physiology, reproduction and ecology of higher plants in particular. Students may not count both BIOL 2120 and BIOL 3535 toward the Biology major.

Prerequisite(s): BIOL 1108 and BIOL 1108L.

BIOL 3610 Topics in Life Science for Educators**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of life sciences including topics such as biochemistry, cellular structure and function, DNA and protein synthesis, genetics and evolution, animal structure and function, the kingdoms of life, and principles of ecology. Admission to the College of Education and two courses in science, including one lab course. Open only to students in middle grades science track.

BIOL 3611 Research Methods Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Students read and discuss scientific literature in advance of professional seminar presentations, attend and participate in seminar presentations, and write reflective summaries. Students practice reading scientific literature, discuss commonly employed methods of data analysis, and experience the dissemination of science through seminar presentations. The course may be repeated up to two times for additional credit.

Prerequisite(s): BIOL 1108 and BIOL 1108L.

BIOL 3630 Current Trends in Biol. Res.**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students in Departmental Honors in Biology with a structured introduction to current topics in biological research. The course familiarizes students with the scope of biological research and aids students in selecting an area of inquiry to pursue their capstone research requirement. Students will attend the Departmental Seminar series as part of this course. One outcome of this course is a research proposal written with a faculty mentor. Students may not receive credit for this course and BIOL 4620.

Prerequisite(s): BIOL 2320 and admission to the Honors College.

BIOL 3790 Teaching Internship in Biology**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Student internship in teaching under the mentorship of a faculty member. The student will participate in a workshop immediately prior to the start of the semester, intern in a designated Biology course, and meet with the faculty mentor one hour each week.

Prerequisite(s): BIOL 1108 and BIOL 1108L.

BIOL 3890 Directed Undergraduate Research**1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

Introduction to research methodologies through a faculty-supervised project. The faculty recommendation must have approval of the head of the biology department. Course can be repeated but is limited to one credit hour per semester.

Prerequisite(s): BIOL 1108 and BIOL 1108L.

BIOL 4130 Genetics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a broad survey of the principles of inheritance, including the study of gene structure, gene function, and the role of genes in determining the traits of living organisms. Topics include the molecular structure of DNA/RNA, replication, transcription, translation, interaction of genes, linkage and mapping, sex linkage, regulation of gene expression, and Mendelian and non-Mendelian inheritance.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4150 Horticulture**4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Basic gardening principles with emphasis on plant growth and development as responses to environmental conditions; plant classification, growth and development, environment, propagation, disease, pest control.

Prerequisite(s): A "C" or better in BIOL 3131 and BIOL 3133 and BIOL 3134; and prior completion of BIOL 2120 or BIOL 3535.

BIOL 4230 Introduction to Immunology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the biology of lymphocytes and adaptive immune response including the study of immunoglobulins and cytokines. The roles of the immune system in health and disease are also examined.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4240 Biology of Microorganisms**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Covers the principles and techniques of general microbiology, including physiology, genetics, and host-parasite interactions involving bacteria, eukaryotic microorganisms and viruses. Students receiving credit for this course may not receive credit for BIOL 2010.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4310 Applied Microbiology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Microbiological aspects of food, milk, water, domestic wastes, and industry.

Prerequisite(s): BIOL 3131, BIOL 3133, BIOL 3134, and CHEM 3401.

BIOL 4320 Environmental Microbiology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Principles of microbial ecology that may include biogeochemical cycling, symbiotic relationships, and microbial life in various terrestrial and aquatic habitats. Laboratory will cover methods to study the diversity, phylogeny, and metabolism of Bacteria and Archaea.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4450 Human Embryology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics will include development of the male and female reproductive systems and gamete formation, the process of fertilization, implantation, and the formation of the placenta. Development of the germ cell layers and subsequent development of the major organ systems will be covered with emphasis on the cardiovascular system, respiratory system, digestive system, urogenital system, limb formation, and neurologic system. The most common pediatric congenital defects associated with these systems will also be discussed and clinical examples provided.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4470 Sea Turtle Biology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Vertebrate anatomy, embryology, migration, population genetics, conservation and management of sea turtles and other threatened or endangered species.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4520 Medical Microbiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Disease causing microbes, their diagnosis, pathogenesis, and epidemiology.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4530 Natural History of the Vertebrates**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Life history and functional biology of major vertebrate groups. Emphasis on behavioral, reproductive and feeding adaptations using case studies. Labs focus on field identification of native species.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4532 Evolution**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers the historical development of evolutionary thought and focuses on current issues in evolution. Emphasis is placed on the perceived importance of natural selection, mechanisms of speciation, the history of life on Earth, and human evolution.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4535 Vertebrate Zoology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the evolution, structure, and function of the vertebrates. This course will trace the origin of vertebrates from their invertebrate ancestors and explore how basic vertebrate design has evolved in the major vertebrate groups. Students will also learn how vertebrate structure has affected their function, distribution, behavior, and ecology.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4540 Principles of Ecology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Reviews basic ecological principles and current hypotheses relevant to biological organisms from the level of the population to ecosystems. Application of mathematic models to biological processes is emphasized.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4541 Invertebrate Zoology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A survey of the diversity and basic biology of the invertebrate animal phyla by comparing the body plans, life histories, and ecology of a range of representative species. Emphasis is placed on adaptations responsible for the diversity and life history strategies of invertebrates, and identifications of locally important invertebrate groups.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4550 Biology of Marine Organisms**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Relationship between organisms and abiotic and biotic features of the marine environment, with emphasis on local marine ecosystems. Field labs.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4620 Undergraduate Seminar**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Group study of selected biological topics held in conjunction with the normal seminar schedule of the Department of Biology. Topics will vary each semester and will be led by biology faculty.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134 and Junior standing in Biology Program is required.

BIOL 4635 Biological Basis of Animal Behavior**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover the biological basis of animal behavior, emphasizing the evolution, function, development and causes of behavioral actions by animals. Classes will be interactive and include student discussions. Video clips will illustrate behavioral concepts discussed in the course. A range of topics will be covered, including such possibilities as communication, predator/prey interactions, reproductive behavior, the interaction of genes and the environment, the development of behavior and sensory mechanisms.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4730 Internship in Biology**1-3 Credit Hours. 0 Lecture Hours. 3-9 Lab Hours.**

Qualified biology majors may acquire practical experience by working with a public or private agency that specializes in the proposed area of study. A faculty member in the biology department will act as advisor. Internships must be approved by the head of the department, and a poster presentation of the results must be presented at the end of the semester.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4890 Research**1-4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Biology majors will be encouraged to conduct a research project under the supervision of faculty. The faculty recommendation must have approval of the head of the biology department. A written abstract and an oral presentation of the results by the student must be presented at the end of the semester.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

BIOL 4895 Honors Research**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent research under the guidance of a biology faculty member for students in the Departmental Honors program. Required for students attempting to earn Departmental Honors in Biology. Students may register for 1-3 credit hours, but must complete 4 credit hours. Students opting to attempt the honors degree program would be precluded from receiving biology elective credit for BIOL 4890.

BIOL 4999 Honors Thesis**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Written and oral presentation of results of independent research. Honors thesis must follow the guidelines adopted by the Honors College. Required for students attempting to earn Departmental Honors in Biology.

BIOL 5099 Selected Topics/Biology**1-4 Credit Hours. 1-3 Lecture Hours. 0,3 Lab Hours.**

A course taught on a selected topic in biology on a one-time basis.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5099G.**BIOL 5100 Cell and Molecular Biology Lab****2 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

Laboratory research techniques in cell and molecular biology, with emphasis on inquiry-based projects, data analysis, and written and oral presentations.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134 and CHEM 3401.**Cross Listing(s):** BIOL 5100G.**BIOL 5110 Sensory Physiology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The anatomy and physiology of the major sensory systems - chemosensory, hearing, vision and the somatosensory tactile and pain systems, and how the sensory pathways are interpreted by the nervous system to affect perception and behavior.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5110G.**BIOL 5120 Reproductive Biology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics include the origin and maintenance of sexual reproduction, sexual selection among vertebrates, male and female reproductive anatomy and physiology and a survey of animal breeding systems across taxa.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5120G.**BIOL 5131 Cell Biology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the structure and physiology of cells and subcellular organelles.

Topics include the cell membrane and membrane transport, the extracellular matrix of the cell, the cell cytoskeleton, DNA structure and replication, transcription, translation and the regulation of gene expression.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5131G.**BIOL 5132 Molecular Genetics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines aspects of inheritance of organisms at the molecular, biochemical, and/or cellular levels.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5132G.**BIOL 5141 Forensic Biology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Forensic biology is the marriage of biological sciences and the law. The extensive use of biological evidence has had a significant bearing on the course of law enforcement investigations in criminal and civil court proceedings. This course will introduce students to some of the basic concepts in forensic biology. Students should expect graphic imagery associated with actual forensic cases.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5141G.**BIOL 5142 Molecular Biotechniques****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Highlights modern discoveries in molecular genetics and their application in today's world. In addition to the body of facts associated with molecular methodology, the course will introduce students to experimental techniques such as PCR, electrophoresis, restriction enzyme digest analysis, and DNA sequencing.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5142G.**BIOL 5148 Human Genetics****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Basic principles of Mendelian inheritance and molecular genetics are applied to a systematic review of human disorders. Included are disorders of blood, connective tissue, muscles, lysosomes, lipoproteins, transport membrane and mechanisms, amino acid metabolism and the immune system. Special attention is given to diseases caused by chromosomal abnormalities. Sex determination, genetic markers, gene mapping and population genetics are also covered.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5148G.**BIOL 5150 Cancer Biology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to carcinogenesis with an emphasis on the genetic, molecular, and cellular mechanisms regulating cancer initiation, progression, and metastasis.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5150G.**BIOL 5160 Plant Physiology****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Physiologic processes occurring in plants and the conditions which affect these processes.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134; and prior completion of BIOL 2120 or BIOL 3535.**Cross Listing(s):** BIOL 5160G.**BIOL 5200 Mammalian Physiology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

General physiologic processes of mammals.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5200G.**BIOL 5230 Comparative Animal Physiology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A study of the physiology of animals within a comparative and integrative context. Selected topics include animal movement, circulation, respiration, osmoregulation, nervous and endocrine function and energetic metabolism. Laboratory will reinforce lecture content through inquiry-based activities.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5230G.

BIOL 5237 Physiological Ecology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines how physiological adaptations of animals and plants to abiotic environmental factors (e.g., temperature, salinity, moisture, ultraviolet radiation) contribute to the understanding of local species diversity, biogeographic patterns, and habitat exploitation. Emphasis is placed on how physiological function (e.g., osmoregulation, thermoregulation, gas exchange, energy use) interfaces with ecology and evolutionary biology.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5237G.

BIOL 5239 Neurobiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the mechanisms of neural responses, neural integration, neural development, and environmental effects on developing mature nervous systems.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5239G.

BIOL 5240 Histology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines the origin, development, structure and function of vertebrate tissues.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5240G.

BIOL 5241 Comparative Vertebrate Anatomy**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A comparative and functional study of the morphological systems of vertebrates. Laboratory emphasizes dissection of representative vertebrate groups.

Cross Listing(s): BIOL 5241G.

BIOL 5242 Developmental Biology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course is an introduction to the principles of animal and plant development. The focus is on how male and female gametes fuse to form a zygote and how a single-celled zygote develops into an animal with multiple organs with specialized function. This course will cover the molecular and cellular mechanisms involved in fertilization and early embryonic development, molecular signaling involved in development of organs and organ systems, the concept of stem cells and regeneration, and cellular and molecular signaling mechanisms in plant development. Students will see the fundamental conservation of molecular and cellular mechanisms across animals and plants during development as an important example of evolution.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5242G.

BIOL 5243 Toxicology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

An introduction to the principles of toxicology with a focus on the toxicology of aquatic organisms. Topics include risk assessment, regulatory toxicology, mutagenesis, teratology, and toxicology of the nervous and reproductive systems.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5243G.

BIOL 5246 Human Pathophysiology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A selective survey of causes and effects of disease in humans at the molecular, cellular, and systemic level. Selected topics include cellular malfunctions, altered cell environments, cancer biology, and the pathophysiology of the nervous, endocrine, cardiovascular, pulmonary, and renal organ systems.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5246G.

BIOL 5247 Endocrinology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A study of endocrine mechanisms, including their evolution and importance at various levels of biological organization.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5247G.

BIOL 5248 Immunology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A detailed study of the mammalian immune system emphasizing the experimental basis of current immunological theories. Topics include antigen antibody interactions, organization and expression of immunoglobulin genes, complement, major histocompatibility complex, antigen processing and presentation, and generation of humoral and cellular immune responses.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5248G.

BIOL 5250 Limnology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the physical, chemical, and biological aspects of lakes and the interrelationships of all three domains of life involved in nutrient and energy cycling in these ecosystems.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5250G.

BIOL 5260 Invasive Species**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Ecological and economic consequences of invasive, non-native species with topics that include the history of introductions, ecological and evolutionary processes, and the control and prevention of biological invasions.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5260G.

BIOL 5333 Emerging Diseases**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the epidemiology of emerging and re-emerging human diseases throughout the world, but with emphasis on the situation in North America. New and resurging diseases caused by prions, viruses, bacteria, protozoa, fungi, arthropods, and helminths will be discussed, including some vector-borne and tropical diseases.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5333G.

BIOL 5340 Plant Pathology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A broad introduction to representative common plant diseases and disorders with emphasis on diagnoses, causes, epidemiology, and methods of control.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134; and BIOL 2120 or BIOL 3535.

Cross Listing(s): BIOL 5340G.

BIOL 5341 Parasitology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A study of the general principles of parasitism, with emphasis on morphology, classification, identification, and life cycles of parasites of vertebrates.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5341G.

BIOL 5343 Medical-Veterinary Entomology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

An intensive study of the role of arthropods in the transmission, dissemination and causation of diseases of humans and animals. Topics include identification of vector arthropods and associated diseases, ecology, and control.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5343G.

BIOL 5345 Systematic Biology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Introduces the principles and methods of biosystematics. Speciation, bio-nomenclature, hierarchical taxonomic categories, systematic characters, molecular systematics, and phylogenetic analyses are discussed. Laboratories involve use of modern molecular techniques and computational analysis with a variety of software packages.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5345G.**BIOL 5346 Agroecology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Agroecology provides the theoretical and conceptual framework for sustainable agriculture with an emphasis on underlying environmental factors, crop plants and animals. Topics include biotic and abiotic factors influencing biodiversity, interaction and stability of agroecosystems, organic farming, agroforestry, energy-use in agriculture and ways to transition towards sustainability.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134; and BIOL 2120 or BIOL 3535.**Cross Listing(s):** BIOL 5346G.**BIOL 5347 Fisheries Biology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines the principles and practices of fisheries management and fish conservation, built on a foundation of biology, ecology, and fisheries science, with emphasis on freshwater North American species and environments. Laboratory emphasizes applied methods for collection, analysis, and interpretation of fisheries data. Field trips are required.

Prerequisite(s): BIOL 3131, BIOL 3133, BIOL 3134.**Cross Listing(s):** BIOL 5347G.**BIOL 5400 Barrier Island Ecology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers the abiotic and biotic environment, flora, and fauna of coastal barrier island habitats with a focus on Georgia's barrier islands. Topics may include geological history, coastal processes, and ecological communities of barrier island habitats. Current threats and current and future coastal management techniques will be discussed.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5400G.**BIOL 5431 Virology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the biology of viruses, with emphasis on viral diversity, virus-host interactions, viral diseases of humans, animals and plants and uses of viruses in medicine, research and biocontrol.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5431G.**BIOL 5432 Deep Sea Environments****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the current knowledge about hydrothermal systems in terms of their deep-sea environment and their geological and chemical makeup. Emphasis is placed on studying symbiotic relationships, reproductive biology, larval dispersal, thermal tolerances, sulfide and sensory adaptations by organisms found in non-vent, vent, and cold seep environments.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5432G.**BIOL 5441 Mycology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Broad introduction to various taxonomic groups of Fungi, emphasizing morphology, taxonomy, evolution, physiology, and economic importance. Selected mycolic diseases and symbiotic relationships in nature will be explored.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5441G.**BIOL 5442 Entomology****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Examines the phylogeny, morphology, life history and ecology of insects. Identification of local species will be emphasized. Field trips required.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5442G.**BIOL 5443 Plant Taxonomy****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course teaches the identification and taxonomy of the vascular plants, with an emphasis on the southeastern United States. Lectures, laboratories, and field trips cover the evolution, classification, identification, collection, and preservation of vascular plants.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134; and BIOL 2120 or BIOL 3535.**Cross Listing(s):** BIOL 5443G.**BIOL 5444 Ichthyology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Emphasizes the systematics, evolution, biology, ecology and behavior of recent and extinct fishes. Laboratory emphasizes the identification, morphology, and natural history of fishes. Field trips required.

Cross Listing(s): BIOL 5444G.**BIOL 5445 Herpetology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines the phylogeny, morphology, life history and ecology of reptiles and amphibians. Field identification of local species will be emphasized. Field trips required.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5445G.**BIOL 5446 Ornithology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A comprehensive study of the biology of birds. Lectures will emphasize the evolution, classification, structure, physiology, behavior, and ecology of birds. Laboratories will give hands-on experience with bird morphology, and field trips will emphasize finding and identifying birds in their natural habitats.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5446G.**BIOL 5448 Mammalogy****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Course examines the classification, evolution, distribution and life histories of mammals. The laboratory includes identification and preparation of specimens and development of field techniques. Field trips required.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5448G.**BIOL 5460 Phycology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Evolution, morphology, physiology, and ecology of the microalgal and macroalgal species found in marine and freshwater environments, with field trips to a selection of local habitats.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5460G.**BIOL 5470 Marine Pollution****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers current federal and Georgia environmental laws and regulations, coastal ecological concepts, and techniques used for remediation of environmental degradation.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.**Cross Listing(s):** BIOL 5470G.

BIOL 5500 Bioinformatics and Biotechnology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Utilization of databases and software for the analysis of DNA and protein information. Production of products and services using biological materials.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5500G.

BIOL 5520 Epigenetics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The molecular mechanisms that change gene expression without changing DNA sequence will be explored. Emphasis will be placed on the effect of histone modification and DNA methylation on phenotype and genome function. The ramifications of molecular epigenetic mechanisms on ecology, evolution, and human health will be discussed.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5520G.

BIOL 5530 Wildlife Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the principles and practices used to manage wildlife populations. The emphasis is on populations of importance to humans, particularly game animals. Students will explore the factors, both biotic and abiotic, that influence wildlife populations and how these factors can be managed to sustain game and nongame wildlife populations.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5530G.

BIOL 5534 Conservation Biology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the causes and consequences of the loss of biodiversity, as well as methods for conserving rare species and ecosystems.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5534G.

BIOL 5537 Biogeography**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the distributional patterns of animals and plants from the perspectives of vicariance biogeography and organismal dispersal. One field trip required.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5537G.

BIOL 5541 Tropical Marine Biology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This is an intensive 2-week field course conducted at a tropical marine field station. Through daily lectures and field excursions, students are exposed to the natural history and ecology of a variety of marine organisms and ecosystems that may include mangroves, sea grasses, rocky shores and coral reefs. Additional fees required.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134 and permission of instructor.

Cross Listing(s): BIOL 5541G.

BIOL 5542 Aquatic Ecology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Covers the biological and physiochemical factors that affect common organisms found in local aquatic ecosystems, including streams and rivers, wetlands, estuaries, and lakes.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5542G.

BIOL 5543 Biological Field Experience**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A field expedition involving biological investigations of a major ecosystem or natural area. Expeditions normally require 2-5 weeks in the field, depending upon the destination and the type of travel required. Additional fees required.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134 and permission of instructor.

Cross Listing(s): BIOL 5543G.

BIOL 5546 Plant Ecology**4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Examines fundamental principles and major conceptual issues in plant ecology. Students will learn about the distinctive and often unique ways in which plants interact with the biotic and abiotic components of their environment, and how these factors affect the abundance and distribution of plants.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134; and prior completion of BIOL 2120 or BIOL 3535.

Cross Listing(s): BIOL 5546G.

BIOL 5547 Marine Ecology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Course stresses ecological processes and adaptations that act to structure coastal associations and permit their persistence through time. The course provides a background for students interested in research in the marine sciences. Students will learn to develop good statistical designs and use various techniques to collect data in marine ecology. Several field trips are required.

Prerequisite(s): A minimum grade of "C" in BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5547G.

BIOL 5570 Stream Ecology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced study of the structural (physical and biological) and functional (energy and nutrients) characteristics of stream and river habitats. Students will explore topics including watershed, litter processing, food webs, nutrient spiraling, ecosystem metabolism, the river continuum concept, and the flood pulse concept.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5570G.

BIOL 5644 Insect Ecology**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines the basic principles of ecology as they apply to insects. The ecology of insects will be investigated at the level of individuals, populations, communities and ecosystems. Emphasis will be placed on how insects interact with, and have evolved unique adaptations to, their abiotic and biotic environment.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5644G.

BIOL 5645 Behavioral Ecology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores how evolution and ecology shape behavior. Selected topics may include habitat use and movement patterns, trophic interactions, and inter- and intraspecific communication. Content will be covered through traditional lecture, examination of classic and modern literature, and applied problem solving or case study exercises.

Prerequisite(s): BIOL 3131 and BIOL 3133 and BIOL 3134.

Cross Listing(s): BIOL 5645G.

BIOL 5099G Selected Topics/Biology**1-4 Credit Hours. 1-3 Lecture Hours. 0,3 Lab Hours.**

Course taught on a selected topic in biology on a one-time basis. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5099.

BIOL 5100G Cell and Molecular Biology Laboratory
2 Credit Hours. 0 Lecture Hours. 6 Lab Hours.

Laboratory research techniques in cell and molecular biology, with emphasis on inquiry-based projects, data analysis, and written and oral presentations. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5100.

BIOL 5110G Sensory Physiology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The anatomy and physiology of the major sensory systems - chemosensory, hearing, vision and the somatosensory tactile and pain systems, and how the sensory pathways are interpreted by the nervous system to affect perception and behavior. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5110.

BIOL 5120G Reproductive Biology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics include the origin and maintenance of sexual reproduction, sexual selection among vertebrates, male and female reproductive anatomy and physiology and a survey of animal breeding systems across taxa. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5120.

BIOL 5131G Cell Biology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics include the origin and maintenance of sexual reproduction, sexual selection among vertebrates, male and female reproductive anatomy and physiology and a survey of animal breeding systems across taxa. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5120.

BIOL 5132G Molecular Genetics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines aspects of inheritance of organisms at the molecular, biochemical, and/or cellular levels. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5132.

BIOL 5141G Forensic Biology

4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.

Forensic biology is the marriage of biological sciences and the law. The extensive use of biological evidence has had a significant bearing on the course of law enforcement investigations in criminal and civil court proceedings. This course will introduce students to some of the basic concepts in forensic biology. Graduate students will be required to complete advanced-level assignments beyond the scope of the undergraduate requirements. These assignments require a higher level of mastery in the subject matter with additional required deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5141.

BIOL 5142G Molecular Biotechniques

4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

Highlights modern discoveries in molecular genetics and their application in today's world. In addition to the body of facts associated with molecular methodology, the course will introduce students to experimental techniques such as PCR, electrophoresis, restriction enzyme digest analysis, and DNA sequencing. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5142.

BIOL 5148G Human Genetics

4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.

Basic principles of Mendelian inheritance and molecular genetics are applied to a systematic review of human disorders. Included are disorders of blood, connective tissue, muscles, lysosomes, lipoproteins, transport membrane and mechanisms, amino acid metabolism and the immune system. Special attention is given to diseases caused by chromosomal abnormalities. Sex determination, genetic markers, gene mapping and population genetics are also covered. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5148.

BIOL 5150G Cancer Biology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to carcinogenesis with an emphasis on the genetic, molecular, and cellular mechanisms regulating cancer initiation, progression, and metastasis. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5150.

BIOL 5160G Plant Physiology

4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

Physiologic processes occurring in plants and the conditions which affect these processes. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5160.

BIOL 5200G Mammalian Physiology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

General physiologic processes of mammals. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5200.

BIOL 5230G Comparative Animal Physiology

4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.

A study of the physiology of animals within a comparative and integrative context. Selected topics include animal movement, circulation, respiration, osmoregulation, nervous and endocrine function and energetic metabolism. Laboratory will reinforce lecture content through inquiry-based activities. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5230.

BIOL 5237G Physiological Ecology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines how physiological adaptations of animals and plants to abiotic environmental factors (e.g., temperature, salinity, moisture, ultraviolet radiation) contribute to the understanding of local species diversity, biogeographic patterns, and habitat exploitation. Emphasis is placed on how physiological function (e.g., osmoregulation, thermoregulation, gas exchange, energy use) interfaces with ecology and evolutionary biology. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5237.**BIOL 5239G Neurobiology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the mechanisms of neural responses, neural integration, neural development, and environmental effects on developing mature nervous systems. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5239.**BIOL 5240G Histology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines the origin, development, structure and function of vertebrate tissues. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5240.**BIOL 5241G Comparative Vertebrate Anatomy****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A comparative and functional study of the morphological systems of vertebrates. Laboratory emphasizes dissection of representative vertebrate groups. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5241.**BIOL 5242G Developmental Biology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course is an introduction to the principles of animal and plant development. The focus is on how male and female gametes fuse to form a zygote and how a single-celled zygote develops into an animal with multiple organs with specialized function. This course will cover the molecular and cellular mechanisms involved in fertilization and early embryonic development, molecular signaling involved in development of organs and organ systems, the concept of stem cells and regeneration, and cellular and molecular signaling mechanisms in plant development. Students will see the fundamental conservation of molecular and cellular mechanisms across animals and plants during development as an important example of evolution. Graduate students will be required to complete advanced-level assignments beyond the scope of the undergraduate requirements. These assignments require a higher level of mastery in the subject matter with additional required deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5242.**BIOL 5243G Toxicology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

An introduction to the principles of toxicology with a focus on the toxicology of aquatic organisms. Topics include risk assessment, regulatory toxicology, mutagenesis, teratology, and toxicology of the nervous and reproductive systems. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5243.**BIOL 5246G Human Pathophysiology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A selective survey of causes and effects of disease in humans at the molecular, cellular, and systemic level. Selected topics include cellular malfunctions, altered cell environments, cancer biology, and the pathophysiology of the nervous, endocrine, cardiovascular, pulmonary, and renal organ systems. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5246.**BIOL 5247G Endocrinology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A study of endocrine mechanisms, including their evolution and importance at various levels of biological organization. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5247.**BIOL 5248G Immunology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A detailed study of the mammalian immune system emphasizing the experimental basis of current immunological theories. Topics include antigen antibody interactions, organization and expression of immunoglobulin genes, complement, major histocompatibility complex, antigen processing and presentation, and generation of humoral and cellular immune responses. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5248.**BIOL 5250G Limnology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the physical, chemical, and biological aspects of lakes and the interrelationships of all three domains of life involved in nutrient and energy cycling in these ecosystems. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5250.**BIOL 5260G Invasive Species****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Ecological and economic consequences of invasive, non-native species with topics that include the history of introductions, ecological and evolutionary processes, and the control and prevention of biological invasions. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5260.

BIOL 5333G Emerging Diseases**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the epidemiology of emerging and re-emerging human diseases throughout the world, but with emphasis on the situation in North America. New and resurging diseases caused by prions, viruses, bacteria, protozoa, fungi, arthropods, and helminths will be discussed, including some vector-borne and tropical diseases. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5333.**BIOL 5340G Plant Pathology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A broad introduction to representative common plant diseases and disorders with emphasis on diagnoses, causes, epidemiology, and methods of control. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5340.**BIOL 5341G Parasitology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A study of the general principles of parasitism, with emphasis on morphology, classification, identification, and life cycles of parasites of vertebrates. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5341.**BIOL 5343G Medical-Veterinary Entomology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Introduces the principles and methods of biosystematics. Speciation, bio-nomenclature, hierarchical taxonomic categories, systematic characters, molecular systematics, and phylogenetic analyses are discussed. Laboratories involve use of modern molecular techniques and computational analysis with a variety of software packages. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5343.**BIOL 5345G Systematic Biology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Introduces the principles and methods of biosystematics. Speciation, bio-nomenclature, hierarchical taxonomic categories, systematic characters, molecular systematics, and phylogenetic analyses are discussed. Laboratories involve use of modern molecular techniques and computational analysis with a variety of software packages. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): BIOL 5345.**BIOL 5346G Agroecology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Agroecology provides the theoretical and conceptual framework for sustainable agriculture with an emphasis on underlying environmental factors, crop plants and animals. Topics include biotic and abiotic factors influencing biodiversity, interaction and stability of agroecosystems, organic farming, agroforestry, energy-use in agriculture and ways to transition towards sustainability. Graduate students will be required to complete advanced-level assignments beyond the scope of the undergraduate requirements. These assignments require a higher level of mastery in the subject matter with additional required deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5346.**BIOL 5347G Fisheries Biology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines the principles and practices of fisheries management and fish conservation, built on a foundation of biology, ecology, and fisheries science, with emphasis on freshwater North American species and environments. Laboratory emphasizes applied methods for collection, analysis, and interpretation of fisheries data. Field trips are required.

Cross Listing(s): BIOL 5347.**BIOL 5400G Barrier Island Ecology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers the abiotic and biotic environment, flora, and fauna of coastal barrier island habitats with a focus on Georgia's barrier islands. Topics may include geological history, coastal processes, and ecological communities of barrier island habitats. Current threats and current and future coastal management techniques will be discussed. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5400.**BIOL 5431G Virology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the biology of viruses, with emphasis on viral diversity, virus-host interactions, viral diseases of humans, animals and plants and uses of viruses in medicine, research and biocontrol. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5431.**BIOL 5432G Deep Sea Environments****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the current knowledge about hydrothermal systems in terms of their deep-sea environment and their geological and chemical makeup. Emphasis is placed on studying symbiotic relationships, reproductive biology, larval dispersal, thermal tolerances, sulfide and sensory adaptations by organisms found in non-vent, vent, and cold seep environments. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5432.**BIOL 5441G Mycology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Broad introduction to various taxonomic groups of Fungi, emphasizing morphology, taxonomy, evolution, physiology, and economic importance. Selected mycolic diseases and symbiotic relationships in nature will be explored. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5441.**BIOL 5442G Entomology****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Examines the phylogeny, morphology, life history and ecology of insects. Identification of local species will be emphasized. Field trips required. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5442.

BIOL 5443G Plant Taxonomy**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course teaches the identification and taxonomy of the vascular plants, with an emphasis on the southeastern United States. Lectures, laboratories, and field trips cover the evolution, classification, identification, collection, and preservation of vascular plants. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5443.**BIOL 5444G Ichthyology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Emphasizes the systematics, evolution, biology, ecology and behavior of recent and extinct fishes. Laboratory emphasizes the identification, morphology, and natural history of fishes. Field trips required. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5444.**BIOL 5445G Herpetology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines the phylogeny, morphology, life history and ecology of reptiles and amphibians. Field identification of local species will be emphasized. Field trips required. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5445.**BIOL 5446G Ornithology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A comprehensive study of the biology of birds. Lectures will emphasize the evolution, classification, structure, physiology, behavior, and ecology of birds. Laboratories will give hands-on experience with bird morphology, and field trips will emphasize finding and identifying birds in their natural habitats. Graduate students will be required to complete advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Cross Listing(s): BIOL 5446.**BIOL 5448G Mammalogy****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Course examines the classification, evolution, distribution and life histories of mammals. The laboratory includes identification and preparation of specimens and development of field techniques. Field trips required. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5448.**BIOL 5460G Phycology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Evolution, morphology, physiology, and ecology of the microalgal and macroalgal species found in marine and freshwater environments, with field trips to a selection of local habitats. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5460.**BIOL 5470G Marine Pollution****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers current federal and Georgia environmental laws and regulations, coastal ecological concepts, and techniques used for remediation of environmental degradation. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverable representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5470.**BIOL 5500G Bioinformatics and Biotechnology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Utilization of databases and software for the analysis of DNA and protein information. Production of products and services using biological materials. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5500.**BIOL 5520G Epigenetics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The molecular mechanisms that change gene expression without changing DNA sequence will be explored. Emphasis will be placed on the effect of histone modification and DNA methylation on phenotype and genome function. The ramifications of molecular epigenetic mechanisms on ecology, evolution, and human health will be discussed. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5520.**BIOL 5530G Wildlife Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the principles and practices used to manage wildlife populations. The emphasis is on populations of importance to humans, particularly game animals. Students will explore the factors, both biotic and abiotic, that influence wildlife populations and how these factors can be managed to sustain game and nongame wildlife populations. Graduate students will be required to complete advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverable representative of graduate level work, as determined by the instructor.

Cross Listing(s): BIOL 5530.**BIOL 5534G Conservation Biology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the causes and consequences of the loss of biodiversity, as well as methods for conserving rare species and ecosystems. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5534.**BIOL 5535G Sex and Evolution****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the evolution of sex and the subsequent conflict that arises between sexes. Models for the evolution and maintenance of sexual reproduction are compared. Sex allocation theory is reviewed and special attention is drawn to genetic mechanisms that permit sex ratio of offspring to be manipulated. Sexual selection and mate choice tactics are evaluated with reference to empirical studies in behavioral ecology.

Cross Listing(s): BIOL 5535.

BIOL 5537G Biogeography**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the distributional patterns of animals and plants from the perspectives of vicariance biogeography and organismal dispersal. One field trip required. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5537.**BIOL 5541G Tropical Marine Biology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This is an intensive 2-week field course conducted at a tropical marine field station. Through daily lectures and field excursions, students are exposed to the natural history and ecology of a variety of marine organisms and ecosystems that may include mangroves, sea grasses, rocky shores and coral reefs. Additional fees required. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5541.**BIOL 5542G Aquatic Ecology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Covers the biological and physiochemical factors that affect common organisms found in local aquatic ecosystems, including streams and rivers, wetlands, estuaries, and lakes. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5542.**BIOL 5543G Biological Field Experience****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A field expedition involving biological investigations of a major ecosystem or natural area. Expeditions normally require 2-5 weeks in the field, depending upon the destination and the type of travel required. Additional fees required. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5543.**BIOL 5546G Plant Ecology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines fundamental principles and major conceptual issues in plant ecology. Students will learn about the distinctive and often unique ways in which plants interact with the biotic and abiotic components of their environment, and how these factors affect the abundance and distribution of plants. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5546.**BIOL 5547G Marine Ecology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Course stresses ecological processes and adaptations that act to structure coastal associations and permit their persistence through time. The course provides a background for students interested in research in the marine sciences. Students will learn to develop good statistical designs and use various techniques to collect data in marine ecology. Several field trips are required. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5547.**BIOL 5570G Stream Ecology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced study of the structural (physical and biological) and functional (energy and nutrients) characteristics of stream and river habitats. Students will explore topics including watershed, litter processing, food webs, nutrient spiraling, ecosystem metabolism, the river continuum concept, and the flood pulse concept. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5570.**BIOL 5644G Insect Ecology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines the basic principles of ecology as they apply to insects. The ecology of insects will be investigated at the level of individuals, populations, communities and ecosystems. Emphasis will be placed on how insects interact with, and have evolved unique adaptations to, their abiotic and biotic environment. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5644.**BIOL 5645G Behavioral Ecology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores how evolution and ecology shape behavior. Selected topics may include habitat use and movement patterns, trophic interactions, and inter- and intraspecific communication. Content will be covered through traditional lecture, examination of classic and modern literature, and applied problem solving or case study exercises. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): BIOL 5645.**BIOL 6000 Special Topics in Biology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A consideration of topics and issues in biology.

BIOL 7090 Selected Topics/Biology**9 Credit Hours. 0-9 Lecture Hours. 0-9 Lab Hours.**

A course taught on a one-time basis.

BIOL 7133 Molecular Biology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides graduate students with a fundamental knowledge of how organisms operate at the molecular level. Emphasis is on relevant biological theory and techniques in the molecular field.

BIOL 7135 Cytogenetics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Studies from a cytological aspect of eukaryotic chromosomes including chromosome structure, chromosomal aberrations, and chromosome mapping.

BIOL 7233 Applied Biology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Modern biological theory and technologies will be used to address applied questions related to conservation, restoration and environmental management. Emphasis will be on examining applicable, underlying theory with contemporary techniques and technologies to better understand and investigate solutions for relevant biological issues.

BIOL 7333 Evolutionary Ecology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Evolutionary Ecology is a quantitative examination of population growth, interspecific competition, predator-prey interaction, microevolution, and game theory relevant to sexual selection and sex ratio evolution. Topics are presented via spread sheet simulations of dynamic processes. Students will analyze and simulate models and solve problems based on algebraic theoretical models.

Prerequisite(s): Graduate Status or permission of the Instructor.**BIOL 7440 Vector Ecology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Examines physiological, evolutionary, and ecological relationships between arthropod vectors, microbial pathogens they transmit and their vertebrate hosts.

BIOL 7530 Biometry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students with basic skills in the analysis of biological data. Lectures cover both parametric and nonparametric methods, with an emphasis on the practical problems posed by biological data.

BIOL 7531 Research Methods**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

A general introduction to biological research methods, including computer skills, web-based resources, oral and written scientific presentations, proposal writing, and the peer-review process. This course is designed for first-year M.S. students.

BIOL 7610 Graduate Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

An intensive study of an advanced biological topic covered by one or more members of the graduate faculty from the department of Biology. The selected topic will vary from semester to semester. Required for M.S. degree.

BIOL 7890 Directed Individual Study**1-4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

An independent or directed individual study supervised by a member of the graduate faculty of the Department of Biology.

BIOL 7893 Biological Problems**1-4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Studies of biological problems in a specialized area of biology under the supervision of a member of the biology faculty.

BIOL 7895 Research**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Graduate students will pursue, under the direction of their advisory committee, a program of independent research in a particular area of biology. Results of the research will be presented as a thesis in partial fulfillment of the requirements for the Master of Science degree.

BIOL 7999 Thesis**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Results of individual research will be presented as a thesis in partial fulfillment of the Master of Science degree. The thesis requires defense of design, execution, analysis and interpretation of the research project.

BIOS Biostatics

BIOS 6135 Topics of Inference in Biostatistics I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an introduction to the fundamental knowledge of derivatives and integrals found in biostatistical inference. The course will introduce the theory of probability, expectation and variance of discrete and continuous distributions, moment generating functions, bivariate and multivariate distributions, maximum likelihood estimation, and bias. Emphasis will be placed on the development of critical thinking skills and how concepts in this course are used in public health and biomedical studies.

BIOS 6136 Topics of Inference in Biostatistics II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce large sample theory, such as law of large numbers and the central limit theorem; sampling distributions of estimators; the basis for inferences derived from hypothesis testing and confidence intervals; and simulation methods. Emphasis will be placed on how these techniques are used in biostatistical problems and applications using examples from the pharmaceutical industry.

Prerequisite(s): A minimum grade of "B" in BIOS 6135.**BIOS 6331 Regression Analysis in Biostatistics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the methods for analyzing biomedical and health related data using linear regression models. The course will introduce the student to matrix algebra as used in linear models. The course will involve model selection, diagnosis and remedial techniques to correct for assumption violations. The students will learn how to apply SAS procedures PROC REG, PROC CORR, and PROC GLM and interpret the results of analysis. Emphasis will also be placed on the development of critical thinking skills.

BIOS 6332 Experimental Design in Biostatistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the student to experimental designs commonly used in public health and biomedical settings and the methods for analyzing them. It will introduce the student to the principles of designing an experiment (randomization, blocking and replication), completely randomized designs, factorial design, randomized block designs, nested designs, split-plot designs, crossover designs, Latin squares and analysis of the longitudinal designs, a fixed effect (Model I) single factor and multifactor experiment, a random effect (Model II) single factor and multifactor experiment, a mixed effect (Model III) multifactor experiment, and covariance model. Students will learn how to apply SAS procedures: PROC GLM, PROC MIXED, PROC GENMOD, PROC VARCOMP, PROC RSREG and PROC MULTTEST to public health and biomedical data and interpret the results of the analysis.

Prerequisite(s): A minimum grade of "B" in BIOS 6331.**BIOS 6531 Categorical Data Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces statistical methods for analyzing both univariate and multivariate categorical and count data in public health, biomedical research, and other health-related fields. The course will introduce how to distinguish among the different measurement scales in addition to the commonly used statistical probability distribution and inference methods for categorical and count data. Emphasis will be placed on the application of the methodology and computational aspects rather than theory. The students will learn how to apply SAS procedures to data and interpret the results.

BIOS 6541 Biostatistics for Biostatistics & Epidemiology Majors**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines statistics in public health with particular emphasis on applications in Epidemiology and other public health and medical fields. Topics will include sampling, basic discrete and continuous distributions, descriptive statistics, hypotheses testing, confidence intervals, two-sample inferences, odds ratios, relative risks, Chi-square tests of independence, non-parametric methods, correlation, regression, ANOVA, and logistic regression. Emphasis will be on the development of critical thinking skills and epidemiologic and other health data analysis applications with computer software.

Cross Listing(s): PUBH 6541.**BIOS 7090 Selected Topics in Biostatistics****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Allows the student the opportunity to receive specialized and/or focused instruction in a biostatistical topic not generally offered by the department.

BIOS 7131 Survival Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces statistical methods for analyzing data collected on the time to an event, referred to as survival data, in medical research and other health related fields. Emphasis will be placed on the application of the methodology and computational aspects rather than theory. The students will learn how to apply SAS procedures to data and interpret the results.

Prerequisite(s): A minimum grade of "B" in BIOS 6331 and BIOS 6531.

BIOS 7231 Clinical Trials Methodology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students are introduced to regulatory, scientific, statistical and practical aspects of methods inherent in design, monitoring and analyzing clinical trials. Clinical trials in many areas of drug development are presented, discussed and critiqued.

Prerequisite(s): A minimum grade of "B" in all of the following: BIOS 6541 or by permission of instructor.

BIOS 7331 Multivariate Analysis in Biostatistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide students in biostatistics with an introduction to multivariate methods commonly found in health related fields. The course will emphasize multivariate regression, multivariate analysis of variance (MANOVA) and co-variance (MANCOVA), discriminant analysis and an alternative to logistic regression and cluster analysis. Students will be introduced to appropriate SAS procedures and be required to interpret and report their results in a form that meets both FDA and the International Committee on Harmonization.

Prerequisite(s): A minimum grade of "B" in BIOS 6332.

BIOS 7431 Statistical Issues in Drug Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Major statistical issues in the federal regulation of drug research and clinical development will be studied. Specifically, summarization, analysis and monitoring of adverse experiences, two treatment crossover designs, active control equivalence studies, optimization in clinical trials and combination drug development, dosing in the elderly, intention to treat in clinical trials, and dual control groups in rodent carcinogenicity studies will be studied.

Prerequisite(s): A minimum grade of "B" in all of the following: BIOS 6541, BIOS 7535, BIOS 7544 or by permission of instructor.

BIOS 7533 Analysis with Missing and Mis-specified Data**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide the student with the basics of methods for analyzing data with missing data and mis-specified data. This course will cover the following topics: missing data in experiments, complete case analysis, weighted complete case analysis, available case analysis, single imputation methods such as mean, regression, last value varied forward, hot deck imputation, cold deck imputation, Bayes Imputation, Multiple imputation, and nonignorable missing data models.

BIOS 7535 Data Analysis with SAS**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The class is designed to provide skill building and practical experience in using SAS to: create analysis data files; analyze data such as that found in typical biostatistical consulting problems; and assess the validity of analysis methodology assumptions.

Prerequisite(s): A minimum grade of "B" in BIOS 7544.

BIOS 7536 Statistical Methods in Medical Diagnostics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course emphasizes the study design and statistical analysis methods for evaluating diagnostic tests. Particular focus is placed on learning the applications and statistical simulation techniques in statistical language R. Students will learn basic concepts about measures of accuracy such as ROC, sensitivity, specificity and AUC. Students will also learn how to apply R code to formulate parametric and non-parametric statistical inference methods for estimating the accuracy measures for a single test. Students will learn how to compare paired tests' accuracy through statistical hypothesis testing. Students will apply regression models for adjusting covariates in the evaluation of a diagnostic test and combining multiple diagnostic measures into a single criteria.

Prerequisite(s): A minimum grade of "B" in BIOS 6331 and BIOS 6135.

BIOS 7544 Data Management for Biostatistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course emphasizes data management and software applications using the SAS (Statistical Analysis System) software package. It will introduce the student to SAS codes for: inputting and outputting data, creating temporary and permanent data sets, creating formatted and labeled SAS data sets, merging and connecting SAS data sets, creating output using the TABULATE and REPORT procedures, debugging a SAS program that includes the TABULATE, REPORT and SQL procedures, using character functions in SAS, using a random number generator, probability distributions, arrays, and date and time functions. Students will also write a simple and complex query using the SQL procedure; create, populate and modify a set of tables/views using the SQL procedure; and create a SAS program which includes one or more macros. This course will cover basic relational database design and descriptive statistics in SAS. Particular focus is placed on applications pertaining to public health and biomedical research.

BIOS 7890 Directed Individual Study**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

BIOS 9130 Biostatistical Consulting**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide the student with the current best practices in biostatistical consulting. Topics include: Identifying and constructing appropriate questions to ask clients regarding their consultation request, an overview of appropriate statistical methods and SAS software procedures to use for specific study designs and statistical analysis of collected data, directing a consultation appointment without faculty lead, conducting exploratory data analyses, conducting effective analyses based on appropriate statistical methods, conduction needed simulation (including Monte Carlo methods and Bootstrap methods) and providing oral and written communication of statistical findings.

BIOS 9131 Advanced Statistical Theory for Biostatistics I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an advanced study of theoretical statistics. Topics include: an introduction probability and sample space, conditional probability and Bayes Theorem, probability distribution of a random variable, discrete and continuous random variables, functions of random variables, moments and moment generating functions, order statistics and their distributions, discrete distributions, continuous distributions, bivariate and multivariate normal distribution, modes of convergence, limiting moment generating functions, and the central limit theorems.

BIOS 9132 Advanced Clinical Trials**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students are introduced to regulatory, scientific, statistical and practical aspects of methods inherent in design, monitoring and analyzing clinical trials. Clinical trials in many areas of drug development are presented, discussed and critiqued.

Prerequisite(s): A minimum grade of "B" in all of the following: BIOS 7231 or a MS or MPH in Biostatistics or by permission of instructor.

BIOS 9133 Advanced Statistical Theory for Biostatistics II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is a continuation of Advanced Statistical Inference for Biostatisticians I. The additional topics in this course consists of: sample moments and their distributions, the theory of point estimation, the Neyman-Pearson Theory of testing hypotheses, likelihood ratio test, chi-square tests, t-test, F-test, Bayes and Minimax procedures in hypothesis testing, confidence estimation, the general linear hypothesis, and nonparametric statistical inference.

Prerequisite(s): A minimum grade of "B" in BIOS 9131.

BIOS 9134 Stochastic Process for Biological Systems
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides the student with an introduction to stochastic processes with emphasis on Markov chains, The Poisson Process, Brownian Motion and other continuous time processes. The theory developed will be used to model and simulate complex biochemical reaction networks and perform network inference given data from the stochastic trajectory of a biological process, typically arising from microarray or next generation sequencing experiments.

BIOS 9135 Advanced Survival Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This is a course on the study of the theory of survival data. Counting processes and martingale methods will be introduced. Emphasis will be placed on the applications of the theory and on the methodologies for survival data, such as Kaplan-Meier estimate, log-rank test, Cox model, etc. The students will learn how to use R language to setup survival dataset and perform analysis.

Prerequisite(s): A minimum grade of "B" in BIOS 6331, BIOS 6531, and BIOS 7131.

BIOS 9136 General and Generalized Linear Models
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides students with a review of the classical General Linear model and an introduction to the Generalized Linear Model. The first half of the course includes a review of the linear model with the necessary matrix algebra and multivariate normal distribution theory, then to the analysis of quadratic forms and the study of the General Linear Model. The second half of the course begins with an introduction of the components of a Generalized Linear Model and methods of fitting these models. It also covers the most widely used types of models, logistic regression, log-linear models and Quasi-likelihood functions.

Prerequisite(s): A minimum grade of "B" in all of the following: BIOS 9131, BIOS 9133.

BIOS 9231 Bayesian Statistics I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides the student with an introduction Bayesian Analysis and compares Bayesian methods to that of frequentists. The course includes selection of prior distributions, computing posterior distributions, conjugate models, Beta-Binomial model, Normal-Normal model, and Gamma-Poisson model. Bayesian inference using point and interval estimation, Bayesian hierarchical models, and exchangeability will be explored. Topics including Empirical Bayes versus a fully Bayes approach, Markov Chain Monte Carlo methods and model checking using Bayes factors and sensitivity analyses will be included.

Prerequisite(s): A minimum grade of "B" in BIOS 9131.

BIOS 9331 Meta-Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to address research questions in biomedical and other health-related research using meta-analysis techniques. A survey of past and present challenges of such techniques will be addressed, as will a mixture of Frequentist and Bayesian approaches to meta-analysis. Typical research questions found in health-related issues such as prevention, diagnosis, treatment, and policy will be constructed, followed by the methodologies to analyze such health-related questions. The course will focus on modeling and implementation issues in meta-analysis for biostatistical applications. In particular, this course will emphasize such topics as heterogeneous study results, combining studies with different designs, advantages and disadvantages to using meta-analysis over large trials, meta-analysis for 2x2 tables with multiple treatment groups, meta-analysis of clinical trials, addressing biases, meta-analysis of patient survival data, among additional biomedical applications.

Prerequisite(s): A minimum grade of "B" in BIOS 9131.

BIOS 9333 Applied Longitudinal Data Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an introduction to longitudinal and clustered data. Topics include the basic concepts of longitudinal data, linear models for longitudinal data, generalized linear models and salient features, generalized estimating equations, generalized linear mixed effects models, missing data and dropouts, sample size and power, repeated measures, and multilevel linear models.

BIOS 9432 Randomization and Bootstrap Methods in Health Data
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide the student with the basics of randomization tests and bootstrap methods. This course will cover the following topics: Randomization tests, the jackknife, the bootstrap and its application to health related data, Monte Carlo tests, considerations when using randomization, jackknife and bootstrap methods, one and two sample tests, analysis of variance, regression analysis, survival data and multivariate data.

Prerequisite(s): A minimum grade of "B" in BIOS 9131.

Corequisite(s): BIOS 9231.

BUSA Business Administration

BUSA 1105 Introduction to Business
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey course that acquaints beginning college students with the major institutions and practices in the business world, provides an understanding of basic business concepts, and presents a view of career opportunities that exist in business.

Prerequisite(s): Freshman and Sophomore standing only.

BUSA 1131 Financial Survival Skills
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An overview of the issues relating to managing your finances throughout your life. Attention will be given to career planning, budgeting, credit cards, loans, lease vs. purchase for automobiles and housing, saving for retirement and risk management with insurance.

BUSA 3083 Business Abroad
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The focus of this course is an international study abroad. The study abroad is designed to develop students' understanding of international cultures and of conducting business in an international arena. The course prepares students for their trip by requiring activities such as coordinated lectures, assigned readings, and a research paper aligned with each student's major.

Prerequisites: BBA status, Junior standing and Minimum of 2.0 GPA.

BUSA 3131 Foundations of Business Analytics I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This introductory course covers basic concepts and techniques of business statistics including descriptive statistics, probability & probability distributions, and statistical inference. Emphasis will be on the interpretation of statistical analysis and how these techniques apply to and can be used in cross-disciplinary business analytics applications. Students will learn problem solving using both traditional methods and computer-based analytical tools such as Excel. Real business data and examples will be used whenever possible.

Prerequisite(s): A minimum grade of "C" in CISM 2530 and MATH 1232 or MATH 1112 or MATH 1113 or MATH 1441 or a minimum grade of "B" in MATH 1111.

BUSA 3132 Foundations of Business Analytics II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on a selection of models commonly used in business analytics including simple and multiple regression analysis, time series analysis and forecasting, decision theory, and optimization models. Cross disciplinary business analytics applications are emphasized in this course. Students will learn to apply business analytics models to solve business problems using computer-based tools such as Excel Solver and Excel Data Analysis. Real business data and examples will be used whenever possible.

Prerequisite(s): A minimum grade of "C" in BUSA 3131.

BUSA 3610 Research Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This seminar style course is designed to acquaint COBA Honors students with the scientific method and how it is used in business to advance knowledge of the business disciplines. In this course, students will examine the various options for the Honors Thesis/Capstone Project in COBA. With the assistance of the COBA Honors Advisory Council and keeping in mind the personal and professional aspirations articulated in the Honors Business Philosophy Seminar taken the previous semester, the course will culminate with each student selecting an honors thesis topic and a thesis faculty advisor. Students will create an Honors Thesis Proposal and an Honors Thesis Completion Action Plan as part of the course.

BUSA 3620 Business Seminar**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This seminar style course is designed to allow students to explore the principles of effective business leadership through readings, discussions, in-depth interactions with business leaders, and corporate visits. Students will explore how the principles of positive psychology and servant leadership can be merged in the creation of high functioning work teams. The course will include significant coverage of leadership styles, factors that influence life satisfaction, business ethics, and sustainability. The course will culminate with each student writing a personal description of their individual business philosophy and professional goals. This course will be a lead-in to the next course in the sequence (the COBA Honors Thesis Research Seminar) in which students will design a capstone experience that will help them advance toward their individual goals.

BUSA 4131 Strategic Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The major purpose of this course is to develop an understanding of the strategic management process and enable students to integrate the functional areas of business.

Prerequisite(s): A minimum grade of "C" in all of the following: BUSA 3132, FINC 3131, MGNT 3130, MKTG 3131, and OSCM 3430.

BUSA 4133 Predictive Analytics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers the basic statistical concepts required for business analytics. The course covers but is not limited to outlier detection, MVA, reliability, multiple linear regression, classification models, factor analysis, cluster analysis and text mining. The course will provide instruction in and utilize high level programming languages.

Prerequisite(s): A minimum grade of "C" in BUSA 3131.

BUSA 4134 Advanced Business Analytics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover, but will not be limited to, time series forecasting, Monte Carlo simulation, discrete event simulation, linear and nonlinear optimization, decision theory, and regression trees. The focus will be on the problem-solving process and application and interpretation of results. The course will provide instruction in utilizing high level programming languages.

Prerequisite(s): A minimum grade of "C" in BUSA 3131.

BUSA 4700 Cooperative Education**0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

An opportunity to gain work experience related to academic major, begin the career decision-making process and earn money for educational expenses. This is accomplished through the Cooperative Education program. The co-op program is coordinated administratively by the Office of Career Services. Salaries and benefits are determined by the employer and normally increase as the program proceeds. Board and lodging are the responsibility of the student. An S/U grade is assigned for each work assignment on the basis of the employer's evaluation only.

BUSA 4790 Internship in Business**3-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised work-study program in selected business firms throughout the southeast.

Prerequisite(s): Junior standing, and good academic standing (minimum cumulative GPA is 2.0).

BUSA 4830 Special Topics in Business**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A customized course that is under the direction of a faculty sponsor. Designed to offer students an opportunity to pursue studies at a level or on topics not covered in scheduled courses. The scope and nature of the material covered is determined in consultation with faculty sponsor.

BUSA 4930 Undergraduate Research Practicum**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides the opportunity to pursue research within the business disciplines under faculty direction. It is expected that students in this course will produce a research paper that is accepted for presentation at an academic conference and/or accepted for publication in a peer-reviewed academic journal.

Prerequisite(s): Approval of Director of COBA Undergraduate Research.

BUSA 7030 Special Topics in Business**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

A standard course developed for a special or newly emerging topic that is in demand by MBA students. Lectures, group work, readings, research, and writing are required as in any other advanced elective course.

BUSA 7130 International Business**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course presents fundamental considerations for managers of international trade operations, providing students with the experience of simulating the business of exporting.

BUSA 7790 Internship in Business**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised work/study program in selected organizations throughout the U.S.A. and abroad. Any student enrolled in the internship program will be required to work for one full semester.

BUSA 7831 Business Study Abroad**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course includes an international trip component. The business study abroad is designed to develop students' understanding of international cultures and business practices. The course prepares students for their trip by requiring activities such as coordinated lectures, assigned readings, and a research paper aligned with each student's career interests. Expenses specific to the travel portion of the course may vary.

Prerequisite(s): Permission of Director.

BUSA 7890 Individual Research
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A guided individual research project that provides the student with an opportunity to explore a particular topic in-depth. Normally, the course would culminate in a research report or case study.

BUSA 9332 Applied Multivariate Methods for Business Research
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will enable students to master the analytical/methodological skills needed to evaluate and conduct research in their areas of specialization. Students will be introduced to multivariate data analysis methods, especially linear models, needed in their research areas. Students should be able to apply appropriate multivariate statistical techniques to analyze real data sets and prepare methodology and results appropriate for business journals. Students will be able to understand the multivariate techniques commonly used in current literatures of their research areas.

Prerequisite(s): A minimum grade of "B" in MGNT 7331.

BUSA 9333 Advanced Multivariate Methods for Business
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will enable students to master the analytical/methodological skills needed to evaluate and conduct research in their areas of specialization. Students will be introduced to multivariate data analysis methods needed in their research areas, including statistical concepts, principles, and techniques of analysis of variance, confirmatory factor analysis, and structural equations models. Students will be able to understand the multivariate statistical techniques used in current literatures, apply appropriate techniques to support their research and prepare methodology and results appropriate for business journals. Students will learn to use statistical software to assist problem solving.

Prerequisite(s): A minimum grade of "B" in BUSA 9332.

BUSA 9334 Qualitative Research Methods in Business
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides a survey of qualitative research philosophies and methods. Its focus is on the use of qualitative research to understand phenomenon generally considered within the domain of logistics and supply chain management. The majority of the time will be spent comparing and contrasting four main approaches to qualitative research -- grounded theory, case studies, focus groups, and phenomenology -- to illustrate the variations on qualitative research available. Although philosophical foundations are discussed, the course places primary emphasis on the application of qualitative research methods. Of particular emphasis are decisions and activities that the qualitative researcher must accomplish, such as selecting a phenomenon for study, determining research objectives and questions, selecting a qualitative research design, choosing data sources, conducting a long interview, analyzing qualitative data, evaluating qualitative research, and writing and reporting the results.

Prerequisite(s): A minimum grade of "B" in BUSA 9332 and BUSA 9333.

CENG Civil Engineering

CENG 1133 Engineering Graphics for Civil and Construction Engineers

3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

This course addresses the basic skills of engineering drawings with manual and computer aided design tools. Topics include the use of engineering and architectural scales, multiple views and projections, 2D drawings using AutoCAD, and introduction of Civil3D and Revit.

CENG 1731 Civil Engineering Computations
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

This course serves as an introduction to the civil and construction engineering programs, with an emphasis on civil and construction engineering computations. Use of contemporary computing tools and methodologies, and acceptable technical reporting of data as appropriate to civil and construction engineering applications are also introduced.

Prerequisite(s): Minimum grade of "C" or concurrent enrollment in MATH 1441.

CENG 2131 Civil Engineering Fluid Mechanics
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

This course covers basic concepts of fluid mechanics, and the fundamentals and applications of ideal and real fluid flow. Topics include fluid statics, conservation principles, the Bernoulli equation, fluid flow in pipes, fluid flow measurement devices, open channel flow, and basic hydraulic structures.

Prerequisite(s): A minimum grade of "C" in ENGR 2231.

CENG 2231 Surveying

3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

Principles of the level, theodolite, electronic distance measurement (EDM), total station and global positioning systems, taping, note keeping, coordinate geometry, control surveys, triangulation, trilateration, plane coordinate systems, azimuth and topographic mapping. Laboratory includes use of level, theodolite, EDM, total station, GPS, traverse closure, level net closure, topographic mapping, measuring distances and heights using coordinate geometry calculations.

Prerequisite(s): A minimum grade of "C" in MATH 1112 or MATH 1113 or MATH 1441 and CENG 1133 or ENGR 1133 or TCM 1232.

Cross Listing(s): TCM 2233.

CENG 3131 Introduction to Environmental Engineering
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

The course is an introduction to environmental engineering. Topics include a review of the role of the United States Environmental Protection Agency (EPA) in environmental protection, mass balance, rainfall and runoff analysis, basic surface water and groundwater hydrology, water quality management, municipal solid waste and hazardous waste management, and air pollution control.

Prerequisite(s): A minimum grade of "C" in CHEM 1310.

CENG 3132 Introduction to Water and Wastewater Treatment
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

The course is an introduction to water and wastewater treatment. Topics include sources and characteristics of water and wastewater, treatment standards, selection of different water and wastewater treatment processes, design principles for treatment units in water and wastewater treatment plants, and standard laboratory tests used to control the operation of water and wastewater treatment plants.

Prerequisite(s): A minimum grade of "C" in CENG 2131 and CENG 3131.

CENG 3135 Construction Cost Control and Finance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces the long-term contract methods for recognizing revenue and their impact on construction company financial statements. The course also covers the analysis of construction company financial statements and their use in developing budgets, project cash needs, pricing construction projects, and forecasting the impact of business decisions on profit. The project cost control and the contract delivery methods are also discussed, along with ethical guidelines for professional conduct and code of ethics.

Prerequisite(s): A minimum grade of "C" in ECON 2105.

CENG 3232 Soil Mechanics**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course is an introduction to soil mechanics, including an investigation of the mechanical and physical properties of soils and the relation to soil action in problems of engineering such as soil composition, index properties, classification, exploration, compaction, permeability, stress distribution, consolidation, settlement, shear strength, bearing capacity, and lateral earth pressure.

Prerequisite(s): A minimum grade of "C" in ENGR 3233.**CENG 3233 Civil Engineering Materials****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Introduction to materials science and basic engineering properties of common civil engineering materials including metals, soils, aggregates, Portland cement concrete, asphalt binder and asphalt concrete, wood, and masonry. Written and oral communication skills are an important part of this course.

Prerequisite(s): A minimum grade of "C" in ENGR 3233.**CENG 3311 Fluid Mechanics Lab****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

The laboratory includes measurement of water properties including specific weight and dynamic viscosity, use of the Bernoulli equation, pressure measurement, flow rate measurement on a pipe, open channel flow, calibration of flow-measuring, head loss in piping systems, and characteristics of centrifugal pumps.

Corequisite(s): ENGR 3235.**CENG 3331 Structural Analysis****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course investigates the behavior of common structural systems under various loading conditions. The course focuses on the accurate analysis of statically determinate trusses, beams and frames and uses approximate methods to analyze indeterminate frames. The calculation of deflections and the effects of moving loads are also considered.

Prerequisite(s): A minimum grade of "C" in ENGR 3233.**CENG 3333 Reinforced Concrete Design****3 Credit Hours. 0,3 Lecture Hours. 0,1 Lab Hours.**

The course covers characteristics of concrete materials; introduction to ACI Building Code requirements for reinforced concrete; strength design of slabs, beams, columns, and footings.

Prerequisite(s): A minimum grade of "C" in CENG 3331.**CENG 4133 Transportation Systems****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Overview of transportation engineering with respect to traffic operation and transportation planning, including mainly highway. Emphasis on design and traffic control devices with considerations of economy, safety, and environment. Laboratory involves data measurement and analysis techniques associated with transportation engineering using probability.

Prerequisite(s): A minimum grade of "C" in CENG 2231 and MATH 3337.**CENG 4135 Highway Design****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course provides an introduction to highway design based on conventional constraints including: vertical and horizontal geometry, traffic, safety, drainage, economic, and human factors.

Prerequisite(s): A minimum grade of "C" in CENG 2231 or TCM 2233.**CENG 4232 Foundation Design****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Introduction to foundation design methods, including shallow foundations, slope stability, pile foundation, and retaining walls.

Prerequisite(s): A minimum grade of "C" in CENG 3232.**CENG 4331 Structural Steel Design****3 Credit Hours. 0,3 Lecture Hours. 0,1 Lab Hours.**

Course includes characteristics of structural steel; introduction to AISC Load and Resistance Factor Design (LRFD) specifications; design of tension members, columns, beams, beam-columns, and connections.

Prerequisite(s): A minimum grade of "C" in CENG 3331.**CENG 4518 Introduction to Senior Project****1 Credit Hour. 1 Lecture Hour. 2 Lab Hours.**

This course is the first component of the senior project series of two courses designed to aid the students in successful completion of the capstone project required for the civil engineering curriculum. This first course introduces students to contemporary civil engineering considerations and professional engineering practice in a global, economic, environmental, and societal context. The course prepares students to function on multi-disciplinary teams while completing preliminary tasks required for the senior project. The importance of life-long learning and professional licensure is also addressed.

Prerequisite(s): A minimum grade of "C" or concurrent enrollment in CENG 3333 or CENG 4331 and Senior standing.**CENG 4539 Senior Project****3 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

This course is designed to be the culmination of the undergraduate civil engineering education experience. The course draws together diverse elements of the Civil Engineering curriculum to provide an integrating experience and to develop competence in focusing both technical and nontechnical skills in solving problems. The senior project course involves design and analysis of a new or modified civil engineering project or system with demonstrated feasibility.

Prerequisite(s): A minimum grade of "C" in CENG 4518 and approval of Department Chair.**CENG 4730 Experiential Learning in Civil and Construction Engineering - COOP****1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

This course provides an opportunity for Civil and Construction Engineering students to participate in Experiential, Cooperative Education, and receive practical work experience with a pre-approved Civil and Construction Engineering employer. A minimum total of 320 documented contact hours of employment per work assignment with the selected employer are required for course credit.

Prerequisite(s): A minimum grade of "C" in CENG 2231 or TCM 2233.**CENG 4890 Special Problems in Civil Engineering****1-4 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

This course provides for specialized study in the area of Civil Engineering not otherwise covered by the CE program.

Prerequisite(s): As determined by instructor.**CENG 5090 Selected Topics in Civil Engineering****1-3 Credit Hours. 0-3 Lecture Hours. 0-6 Lab Hours.**

This course is scheduled on an infrequent basis to explore special areas in civil engineering.

Prerequisite(s): Permission of Instructor.**Cross Listing(s):** CENG 5090G.**CENG 5133 Water Supply and Wastewater Collection Systems****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course covers water supply and wastewater collection systems. Topics include basic hydraulics, major and minor head losses, pipes in series and parallel, water distribution network analysis, design of water supply distribution systems, sanitary sewer collection systems, and storm sewer collection systems.

Prerequisite(s): A minimum grade of "C" in CENG 3132 or permission of instructor.**Cross Listing(s):** CENG 5133G.

CENG 5136 Watershed Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an introduction to the field of watershed management from an Environmental Engineering perspective. The course covers a wide range of topics that describe the most important aspects of watershed management including watershed assessment and the processes that control water quality in an urban and rural watershed. Fundamentals principles of environmental and water resources engineering will be used to understand the processes that control the transport and fate of pollutants in a watershed. The same principles will be used to develop processes and management practices to improve the water quality in watersheds. Topics addressed include: water quality regulations; physical, chemical, and biological processes affecting that rate and transport of pollutants to surface waters; nonpoint source pollution (NPS); and best management practices among others. The course is intended for seniors and graduate students who want to gain more experience in the area of Environmental Engineer and Water Resources.

Prerequisite(s): A minimum grade of "C" in CENG 3131 or Instructor Approval.

Cross Listing(s): CENG 5136G.

CENG 5137 Engineering Hydrology and Hydraulics**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course integrates concepts developed in Fluid Mechanics with fundamental hydrologic and hydraulic processes used in the analysis and design of urban drainage, flood control, and measurement structures. Hydrology topics include the hydrologic cycle, precipitation, hydrograph analysis, evapotranspiration, runoff, and flood routing. Hydraulics topics include open channel flow, hydraulic design, pump classification, pump and system curves, and water/wastewater pumping stations.

Prerequisite(s): A minimum grade of "C" in CENG 2131 or permission of instructor.

Cross Listing(s): CENG 5137G.

CENG 5138 Water and Sanitation for International Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the design of small-scale, low cost systems for drinking water supply and wastewater disposal. Topics include surface water intakes, wells, storage tanks, water distribution systems, water quality testing, septic tanks, leach fields, and oxidation ponds. The course emphasizes on-site data collection methods, practical issues of design, and project sustainability.

Prerequisite(s): A minimum grade of "C" in CENG 2131 or permission of instructor.

Cross Listing(s): CENG 5138G.

CENG 5139 Advanced Water and Wastewater Treatment**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The course covers advanced water and wastewater treatment processes necessary for designing and managing modern drinking water and wastewater treatment plants. Topics include ion exchange, ozonation, adsorption, membrane, Biological Nutrients Removal (BNR), Membrane Biological Reactor (MBR), disinfection, sludge treatment and disposal, wastewater reclamation and reuse, and effluent disposal.

Prerequisite(s): A minimum grade of "C" in CENG 3132 or permission of instructor.

Cross Listing(s): CENG 5139G.

CENG 5231 Pavement Analysis and Design**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course provides an introduction to different approaches to pavement analysis and design, including flexible and rigid pavement design, preservation, rehabilitation, and management.

Prerequisite(s): A minimum grade of "C" in CENG 3232 and CENG 3233 or permission of instructor.

Cross Listing(s): CENG 5231G.

CENG 5232 Foundation Design**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course provides an introduction to foundation design methods, including shallow foundations, slope stability analysis, pile foundations, and retaining walls.

Prerequisite(s): A minimum grade of "C" in CENG 3232 or permission of instructor.

Cross Listing(s): CENG 5232G.

CENG 5234 Asphalt Mix Design**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course is an introduction to contemporary materials and engineering properties of asphalt binders, modified binders, and asphalt mixtures including: modern binder and mixture specifications, mix design systems and test methods.

Prerequisite(s): A minimum grade of "C" in CENG 3233 or permission of instructor.

Cross Listing(s): CENG 5234G.

CENG 5331 Advanced Structural Analysis**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course covers the analysis of statically indeterminate structures. Classical and modern methods, such as the slope-deflection approach and the matrix-based stiffness method of analysis for indeterminate trusses, beams, and frames are presented. Additionally, a commercially available software package, for structural analysis, is employed to model and analyze relatively larger structures, requiring computational assistance.

Prerequisite(s): A minimum grade of "C" in CENG 1731 and CENG 3331 and MATH 2160 or permission of instructor.

Cross Listing(s): CENG 5331G.

CENG 5332 Prestressed Concrete Design**3 Credit Hours. 0,2 Lecture Hours. 0,1 Lab Hours.**

This course introduces students to the design of common prestressed concrete elements. It presents historical developments, the properties of constituent materials, prestress losses, and the design of prestressed structural members to support flexural and shear loadings.

Prerequisite(s): A minimum grade of "C" in CENG 3333 or permission of instructor.

Cross Listing(s): CENG 5332G.

CENG 5333 Advanced Reinforced Concrete Design**3 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

This course presents advanced design topics not covered in the first reinforced concrete course. Examples of those topics are foundation elements, slender columns, two-way slabs, shear walls and earthquake-resistant structures.

Prerequisite(s): A minimum grade of "C" in CENG 3333.

Cross Listing(s): CENG 5333G.

CENG 5334 Advanced Structural Steel Design**3 Credit Hours. 0,3 Lecture Hours. 0,1 Lab Hours.**

Develop skills in structural steel design and analysis beyond those taught in the basic steel design course. This course covers the behavior and design of advanced components used in steel structures, such as flexural members with slender webs ("plate girders"), composite beams, and beam-to-column connections and also framing systems for seismic design.

Prerequisite(s): A minimum grade of "C" in CENG 4331.

Cross Listing(s): CENG 5334G.

CENG 5335 Structural Dynamics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers topics related to the response of structures subjected to various dynamic loading conditions. Examples of topics discussed include undamped and damped single degree-of-freedom systems, response of one-degree-of-freedom system to harmonic loading and general dynamic loading, response spectra, free and forced vibration of shear buildings, and dynamics analysis of beams and frames.

Graduate students will be required to complete individual advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 5331 or CENG 5331G and ENGR 2232, or permission of instructor.

Cross Listing(s): CENG 5335G.

CENG 5336 Introduction to Finite Elements**3 Credit Hours. 0,1 Lecture Hours. 0,4 Lab Hours.**

This course provides an introduction to the Finite Element Method focusing on the analysis of common structural components encountered in civil engineering discipline utilizing a commercial FEA software package. The course covers key FEA principles and procedures associated with linearly behaving static structural members modeled using a variety of appropriate two-dimensional and three-dimensional elements.

Prerequisite(s): A minimum grade of "C" in CENG 3331 and MATH 2160 or permission of instructor.

Cross Listing(s): CENG 5336G.

CENG 5337 Advanced Strength**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers advanced topics related to the strength of materials. Examples of topics discussed include analysis of stresses and strains, two-dimensional elasticity problems, classical failure theorems, bending of symmetrical and asymmetrical beams, torsion of prismatic bars, and application of energy methods for analyzing structural members.

Prerequisite(s): A minimum grade of "C" in CENG 5331 or CENG 5331G, or permission of instructor.

Cross Listing(s): CENG 5337G.

CENG 5338 Theory of Elasticity**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers advanced topics related to the application of the theory of elasticity in analyzing structural and solid members. Examples of topics discussed include introduction to elasticity and solid mechanics principles and theorems, plane stress and plane strain analysis, formulation of two-dimensional problems in rectangular and polar coordinates, analysis of stress and strain in three-dimensions, and elasticity in three dimensions. Graduate students will be required to complete individual advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 5331 or CENG 5331G, or permission of instructor.

Cross Listing(s): CENG 5338G.

CENG 5339 Theory of Elastic Stability**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers topics related to buckling of various structural members. Examples of topics discussed include elastic buckling of bars and frames, inelastic buckling of bars, torsional buckling, lateral buckling of beams, and buckling of rings, curved bars and arches.

Prerequisite(s): A minimum grade of "C" in CENG 5331 or CENG 5331G, or permission of instructor.

Cross Listing(s): CENG 5339G.

CENG 5431 Advanced Surveying**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Principles of field astronomy, GPS surveys, control surveys, State Plane Coordinate Systems, photogrammetry, volume determination, route surveying (horizontal and vertical curvature) and an introduction to Geographical Information Systems. Laboratory includes: GPS for control, coordinate system transformations, survey boundary development, topography survey, and roadway alignment.

Prerequisite(s): A minimum grade of "C" in CENG 2231 or TCM 2233 or permission of instructor.

Cross Listing(s): CENG 5431G.

CENG 5432 Introduction to GIS in Surveying-Geomatics and Transportation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the knowledge and skill requirements of Geographic Information Systems (GIS) as applied to surveying-geomatics and transportation. Students will learn and apply GIS and cartographic concepts to develop problem solutions in surveying mapping & thematic mapping and to manipulate geo-referenced spatial information as required in typical industry applications.

Prerequisite(s): Minimum grade of "C" in CENG 2231 or TCM 2233 or permission of instructor.

Cross Listing(s): CENG 5432G.

CENG 5433 Drainage & Erosion Control**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Principles and practices of drainage design including drainage structures, stormwater quality and erosion & sediment control measures, with particular emphasis on governmental publications and regulations.

Prerequisite(s): A minimum grade of "C" in CENG 5137 or CENG 5137G or permission of instructor.

Cross Listing(s): CENG 5433G.

CENG 5434 Surveying History & Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the legal aspects of surveying, including boundary law and the surveyor's rights and responsibilities, with particular emphasis on surveying practice in Georgia.

Prerequisite(s): A minimum grade of "C" in CENG 2231 or TCM 2233 or permission of instructor.

Cross Listing(s): CENG 5434G.

CENG 5435 Introduction to Terrestrial LiDAR**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course presents a thorough introduction to terrestrial light detection and ranging (LiDAR) or laser scanning and its multiple applications. It includes the use of selected state-of-the-art, ground-based, instruments and their corresponding data collection and processing software packages to generate 3D point-cloud models.

Prerequisite(s): Approval of the Instructor.

Cross Listing(s): CENG 5435G.

CENG 5436 Introduction to Close-Range Photogrammetry**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course presents a thorough introduction to close-range photogrammetry and its multiple applications in Civil and Construction Engineering. It includes the use of selected, state-of-the-art, unmanned aerial vehicles and associated data collection and processing software packages to generate 3D spatial models.

Prerequisite(s): Approval of the Instructor.

Cross Listing(s): CENG 5436G.

CENG 5438 Surveying-Geomatics Professional Practice
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course prepares the student for professional practice as a Land Surveyor and includes subdivision design, site layout including associated drainage and sewer design, application of zoning and land use regulations, professional ethics, associated business practices, platting and CAD/computer methods.

Prerequisite(s): A minimum grade of "C" in CENG 5431 and CENG 5434 or permission of instructor.

Cross Listing(s): CENG 5438G.

CENG 5090G Selected Topics in Civil Engineering
1-3 Credit Hours. 0-3 Lecture Hours. 0-6 Lab Hours.

This course is scheduled on an infrequent basis to explore special areas in civil engineering. Graduate students will be required to complete a case study or research project not required of undergraduate students.

Prerequisite(s): Permission of Instructor.

Cross Listing(s): CENG 5090.

CENG 5133G Water Supply and Wastewater Collection Systems
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

This course covers water supply and wastewater collection systems. Topics include basic hydraulics, major and minor head losses, pipes in series and parallel, water distribution network analysis, design of water supply distribution systems, sanitary sewer collection systems, and storm sewer collection systems. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 3132.

Cross Listing(s): CENG 5133.

CENG 5136G Watershed Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an introduction to the field of watershed management from an Environmental Engineering perspective. The course covers a wide range of topics that describe the most important aspects of watershed management including watershed assessment and the processes that control water quality in an urban and rural watershed. Fundamentals principles of environmental and water resources engineering will be used to understand the processes that control the transport and fate of pollutants in a watershed. The same principles will be used to develop processes and management practices to improve the water quality in watersheds. Topics addressed include: water quality regulations; physical, chemical, and biological processes affecting that rate and transport of pollutants to surface waters; nonpoint source pollution (NPS); and best management practices among others. The course is intended for seniors and graduate students who want to gain more experience in the area of Environmental Engineer and Water Resources. Graduate students will be required to complete advanced level assignments in areas beyond the scope of the undergraduate requirements demonstrating a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 3131 for CECM students. Approval if the student is enrolled in another program at Georgia Southern.

Cross Listing(s): CENG 5136.

CENG 5137G Engineering Hydrology and Hydraulics
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

This course integrates concepts developed in Fluid Mechanics with fundamental hydrologic and hydraulic processes used in the analysis and design of urban drainage, flood control, and measurement structures.

Hydrology topics include the hydrologic cycle, precipitation, hydrograph analysis, evapotranspiration, runoff, and flood routing. Hydraulics topics include open channel flow, hydraulic design, pump classification, pump and system curves, and water/wastewater pumping stations. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 2131 or permission of instructor.

Cross Listing(s): CENG 5137.

CENG 5138G Water and Sanitation for International Development
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course addresses the design of small-scale, low cost systems for drinking water supply and wastewater disposal. Topics include surface water intakes, wells, storage tanks, water distribution systems, water quality testing, septic tanks, leach fields, and oxidation ponds. The course emphasizes on-site data collection methods, practical issues of design, and project sustainability. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 2131 or permission of instructor.

Cross Listing(s): CENG 5138.

CENG 5139G Advanced Water and Wastewater Treatment
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

The course covers advanced water and wastewater treatment processes necessary for designing and managing modern drinking water and wastewater treatment plants. Topics include ion exchange, ozonation, adsorption, membrane, Biological Nutrients Removal (BNR), Membrane Biological Reactor (MBR), disinfection, sludge treatment and disposal, wastewater reclamation and reuse, and effluent disposal. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 3132 or permission of instructor.

Cross Listing(s): CENG 5139.

CENG 5231G Pavement Analysis and Design
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

This course provides an introduction to different approaches to pavement analysis and design, including flexible and rigid pavement design, preservation, rehabilitation, and management. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 3232 and CENG 3233 or permission of instructor.

Cross Listing(s): CENG 5231.

CENG 5232G Foundation Design**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course provides an introduction to foundation design methods, including shallow foundations, slope stability analysis, pile foundations, and retaining walls. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 3232 or permission of instructor.

Cross Listing(s): CENG 5232.

CENG 5234G Asphalt Mix Design**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course is an introduction to contemporary materials and engineering properties of asphalt binders, modified binders, and asphalt mixtures including: modern binder and mixture specifications, mix design systems and test methods. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 3233 or permission of instructor.

Cross Listing(s): CENG 5234.

CENG 5331G Advanced Structural Analysis**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course covers the analysis of statically indeterminate structures. Classical and modern methods, such as the slope-deflection approach and the matrix-based stiffness method of analysis for indeterminate trusses, beams, and frames are presented. Additionally, a commercially available software package, for structural analysis, is employed to model and analyze relatively larger structures, requiring computational assistance. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 1731 and CENG 3331 and MATH 2160 or permission of instructor.

Cross Listing(s): CENG 5331.

CENG 5332G Prestressed Concrete Design**3 Credit Hours. 3 Lecture Hours. 1 Lab Hour.**

This course introduces students to the design of common prestressed concrete elements. It presents historical developments, the properties of constituent materials, prestress losses, and the design of prestressed structural members to support flexural and shear loadings. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 3333 or permission of instructor.

Cross Listing(s): CENG 5332.

CENG 5333G Advanced Reinforced Concrete Design**3 Credit Hours. 0,3 Lecture Hours. 0,1 Lab Hours.**

This course presents advanced design topics not covered in the first reinforced concrete course. Examples of those topics are foundation elements, slender columns, two-way slabs, shear walls and earthquake-resistant structures. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 3333.

Cross Listing(s): CENG 5333.

CENG 5334G Advanced Structural Steel Design**3 Credit Hours. 0,3 Lecture Hours. 0,1 Lab Hours.**

Develop skills in structural steel design and analysis beyond those taught in the basic steel design course. This course covers the behavior and design of advanced components used in steel structures, such as flexural members with slender webs ("plate girders"), composite beams, and beam-to-column connections and also framing systems for seismic design. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 4331.

Cross Listing(s): CENG 5334.

CENG 5335G Structural Dynamics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers topics related to the response of structures subjected to various dynamic loading conditions. Examples of topics discussed include undamped and damped single degree-of-freedom systems, response of one-degree-of-freedom system to harmonic loading and general dynamic loading, response spectra, free and forced vibration of shear buildings, and dynamics analysis of beams and frames. Graduate students will be required to complete individual advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in ENGR 2232 and CENG 5331 or CENG 5331G, or permission of instructor.

Cross Listing(s): CENG 5335.

CENG 5336G Introduction to Finite Elements**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

This course provides an introduction to the Finite Element Method focusing on the analysis of common structural components encountered in civil engineering discipline utilizing a commercial FEA software package. The course covers key FEA principles and procedures associated with linearly behaving static structural members modeled using a variety of appropriate two-dimensional and three-dimensional elements. Graduate students will be required to complete individual advanced level projects in areas beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in all of the following: CENG 3331 or permission of instructor.

Cross Listing(s): CENG 5336.

CENG 5337G Advanced Strengths**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers advanced topics related to the strength of materials. Examples of topics discussed include analysis of stresses and strains, two-dimensional elasticity problems, classical failure theorems, bending of symmetrical and asymmetrical beams, torsion of prismatic bars, and application of energy methods for analyzing structural members. Graduate students will be required to complete individual advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): Minimum grade of "C" in CENG 5331 or CENG 5331G, or permission of instructor.

Cross Listing(s): CENG 5337.

CENG 5338G Theory of Elasticity**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers advanced topics related to the application of the theory of elasticity in analyzing structural and solid members. Examples of topics discussed include introduction to elasticity and solid mechanics principles and theorems, plane stress and plane strain analysis, formulation of two-dimensional problems in rectangular and polar coordinates, analysis of stress and strain in three-dimensions, and elasticity in three dimensions. Graduate students will be required to complete individual advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): Minimum grade of "C" in CENG 5331 or CENG 5331G, or permission of instructor.

Cross Listing(s): CENG 5338.

CENG 5339G Theory of Elastic Stability**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers topics related to buckling of various structural members. Examples of topics discussed include elastic buckling of bars and frames, inelastic buckling of bars, torsional buckling, lateral buckling of beams, and buckling of rings, curved bars and arches. Graduate students will be required to complete individual advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): Minimum grade of "C" in CENG 5331 or CENG 5331G, or permission of instructor.

Cross Listing(s): CENG 5339.

CENG 5431G Advanced Surveying**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Principles of field astronomy, GPS surveys, control surveys, State Plane Coordinate Systems, photogrammetry, volume determination, route surveying (horizontal and vertical curvature) and an introduction to Geographical Information Systems. Laboratory includes: GPS for control, coordinate system transformations, survey boundary development, topography survey, and roadway alignment. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): Departmental consent or a minimum grade of "C" in CENG 2231 or TCM 2233 or permission of instructor.

Cross Listing(s): CENG 5431.

CENG 5432G Introduction to GIS in Surveying-Geomatics and Transportation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the knowledge and skill requirements of Geographic Information Systems (GIS) as applied to surveying-geomatics and transportation. Students will learn and apply GIS and cartographic concepts to develop problem solutions in surveying mapping & thematic mapping and to manipulate geo-referenced spatial information as required in typical industry applications. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 2231 or TCM 2233 or permission of instructor.

Cross Listing(s): CENG 5432.

CENG 5433G Drainage and Erosion Control**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Principles and practices of drainage design including drainage structures, stormwater quality and erosion & sediment control measures, with particular emphasis on governmental publications and regulations. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 5137 or CENG 5137G or permission of instructor.

Cross Listing(s): CENG 5433.

CENG 5434G Surveying History and Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the legal aspects of surveying, including boundary law and the surveyor's rights and responsibilities, with particular emphasis on surveying practice in Georgia. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): Departmental consent or a minimum grade of "C" in CENG 2231 or TCM 2233 or permission of instructor.

Cross Listing(s): CENG 5434.

CENG 5435G Introduction to Terrestrial LiDAR**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course presents a thorough introduction to terrestrial light detection and ranging (LiDAR) or laser scanning and its multiple applications. It includes the use of selected state-of-the-art, ground-based, instruments and their corresponding data collection and processing software packages to generate 3D point-cloud models. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): Permission of the instructor.

Cross Listing(s): CENG 5435.

CENG 5436G Introduction to Close-Range Photogrammetry
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

This course presents a thorough introduction to close-range photogrammetry and its multiple applications in Civil and Construction Engineering. It includes the use of selected, state-of-the-art, unmanned aerial vehicles (UAVs) and associated data collection and processing software packages to generate 3D spatial models. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverable representative of graduate level work, as determined by the instructor.

Prerequisite(s): Permission of the instructor.

Cross Listing(s): CENG 5436.

CENG 5438G Surveying-Geomatics Professional Practice
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course prepares the student for professional practice as a Land Surveyor and includes subdivision design, site layout including associated drainage and sewer design, application of zoning and land use regulations, professional ethics, associated business practices, platting and CAD/computer methods. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CENG 5431G and CENG 5434G or permission of instructor.

Cross Listing(s): CENG 5438.

CENG 7031 Research Methods for Civil Engineers and Construction

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on the synthesis and application of research design in the civil engineering and construction fields. The course emphasizes the understanding of current and emerging trends in these fields, formulation of research questions, development of research hypotheses, and the design of field data collection and experiments. Graduate students will be required to communicate research ideas in both oral and written forms.

Prerequisite(s): Graduate student standing.

CENG 7891 Master's Project

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is available for students to undertake individualized experimentation, research, and study related to civil engineering, and/or a capstone project. The specific topic will be approved by a faculty member in the program, and credit will be assigned commensurate with the magnitude of the study.

CENG 7895 Special Problems in Civil Engineering

1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Individual and specialized study in the area of civil engineering not otherwise covered in the program. Students must submit a proposal of the special problem for approval by the faculty member of record. Credit will be assigned commensurate with the magnitude of the study.

CENG 7999 Thesis

1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course focuses on the preparation and completion of the thesis.

CHBE Comm Hlth Behavior & Ed

CHBE 9130 Research Methods in Community and Behavioral Health

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces doctoral students to research methods in health science. Development and presentation of research proposals will be the focus of the course. Additional emphasis will be placed on writing skills in research and grant applications.

CHBE 9132 Ecological Determinants of Public Health

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course provides students with an examination of the social and behavioral determinants of health at all ecological levels, and their relationships with health equity. It also explores social and behavioral interventions to address community health inequity at multiple ecological levels (individual through policy).

CHBE 9230 Community-Based Public Health Program Planning and Evaluation

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to the theory and application of community-based program planning and evaluation. Concepts in community assessment, organization, and mobilization for the purpose of addressing identified public health concerns will serve as the foundation for the public health planning process. Appropriate techniques of partnership building, planning strategies, data collection, data analysis, and evidence-based decision making will also be introduced.

CHBE 9235 Communication and Advocacy

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide students with the ability to evaluate the history and current applications of health communication theory and strategies to public health practice and research. Emphasis is placed on use of health communication theory and strategies designed to create change across the ecological spectrum, from individual to policy levels. Students will gain the skills to structure, develop, implement and evaluate social marketing, media advocacy, risk communication and advocacy efforts for policy change. In addition, ability to lead systematic qualitative and mixed method data collection processes involving interviewing skills, participant observation and focus group development will be developed. Emphasis is placed on critical thinking skills to help students analyze and utilize these skills in research and practice in diverse public health settings.

CHBE 9331 Health Disparities and the Rural Underserved

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an in-depth look at health disparities, including factors related to the history, politics, socioeconomic, race/ethnicity, and access to and utilization of health care. The extant literature in each of these areas will be examined and discussed.

CHBE 9335 Global Health and Preparedness

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will focus on global public health and preparedness for domestic and global emergencies. Students will explore patterns of health and disease around the world, and compare them to public health issues in the United States. An ecological framework will be employed to illustrate the complex political, social, economic, and environmental determinants of global health inequity. Concepts from the social sciences, epidemiology, health systems, and policymaking will be incorporated. The course will emphasize issues related to humanitarian emergencies and natural disasters both globally and domestically, and the need to build public health infrastructure and preparedness to mitigate them.

CHBE 9630 Doctoral Seminar in Community Health

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide students with the opportunity to analyze the history and current applications of social and behavioral science theories, approaches, models and strategies (learned throughout the curriculum) to public health practice and research. This seminar will examine the breadth of epistemologies employed as we develop effective methods to create change across the ecological spectrum, from individual to policy levels. Emphasis will be placed on critical thinking skills to help students engage in dialogue about what will be effective research and practice in diverse public health settings over the next ten years.

CHEM Chemistry

CHEM 1010 Essentials of Chemistry

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Quantitative survey of chemical sciences emphasizing applications in human physiology, clinical chemistry, inorganic, organic, and biochemistry. Experimental principles illustrated with class-room demonstrations. (Credit in CHEM 1010 may not be applied to the major field requirement in chemistry.)

Prerequisite(s): Completion of MATH 1001 or MATH 1111 or MATH 1113.

CHEM 1040 Chemistry and the Environment

4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

Students will study the fundamental aspects of chemistry in its political, economic, social, and international context. The laboratory will be a primary component of the course in that some of the course material will be first experienced in the laboratory. The laboratory will stress experimental design and data analysis as applied to environmental science.

CHEM 1151K Survey of Chemistry I

4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

First course in a two-semester sequence covering elementary principles of general, organic and biochemistry designed for allied health professions majors. Topics to be covered include elements and compounds, chemical equations, nomenclature, and molecular geometry. Laboratory exercises supplement the lecture material.

CHEM 1152K Survey of Chemistry II

4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

Second course in a two-semester sequence covering elementary principles of general, organic and biochemistry designed for allied health professions majors. Laboratory exercises supplement the lecture material.

Prerequisite(s): A minimum grade of "C" in either CHEM 1151K or CHEM 1212K.

CHEM 1211 Principles of Chemistry I

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics to be covered include composition of matter, stoichiometry, periodic relations, and nomenclature.

Prerequisite(s): A minimum grade of "C" in MATH 1111 or placement eligibility for a higher math course (MATH 1112, MATH 1113, MATH 1441), and prior or concurrent enrollment in CHEM 1211L.

CHEM 1211K Principles of Chemistry I

4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics to be covered include composition of matter, stoichiometry, periodic relations, and nomenclature. Laboratory exercises supplement the lecture material.

Prerequisite(s): A minimum grade of "C" in MATH 1111 or placement eligibility for a higher math course.

CHEM 1211L Principles of Chemistry I Laboratory

1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.

Laboratory exercises supplement the lecture material of CHEM 1211.

Prerequisite(s): Prior or concurrent enrollment in CHEM 1211.

CHEM 1212 Principles of Chemistry II

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors.

Prerequisite(s): A minimum grade of "C" in CHEM 1211 and CHEM 1211L, or CHEM 1211K or prior or concurrent enrollment in CHEM 1212L.

CHEM 1212K Principles of Chemistry II

4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Laboratory exercises supplement the lecture material.

Prerequisite(s): A minimum grade of "C" in either CHEM 1211K, or CHEM 1211 and CHEM 1211L.

CHEM 1212L Principles of Chemistry II Laboratory

1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.

Laboratory exercises supplement the lecture material of CHEM 1212.

Prerequisite(s): A minimum grade of "C" in CHEM 1211L.

Corequisite(s): CHEM 1212.

CHEM 1310 Comprehensive General Chemistry

4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

Fundamental laws and theories of chemical reactions. Topics include atomic structure, bonding, theory, stoichiometry, properties of matter; chemical thermodynamics, electrochemistry and kinetics. Prior completion of a high school chemistry course is highly recommended.

CHEM 2099 Special Topics in Chemistry

4 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.

Course taught on a special topic in chemistry on a one-time basis.

Prerequisite(s): Permission of instructor.

CHEM 2100 Analytical Chemistry

4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

The study of modern quantitative determination methods, including volumetric and gravimetric analyses, equilibrium calculations, and acid/base chemistry, as well as the fundamental theory of chromatography, spectroscopy, and electrochemistry.

Prerequisite(s): A minimum grade of "C" in either CHEM 1212K or CHEM 1212 and CHEM 1212L, and prior completion or concurrent enrollment of CHEM 2900.

CHEM 2400 Fundamentals of Organic Chemistry and Biochemistry

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Fundamentals of organic chemistry applied to the major biochemical pathways. Course designed for allied health majors. (Credit may not be applied to the major field requirement in chemistry.)

Prerequisite(s): A minimum grade of "C" in CHEM 1212K or CHEM 1212 and CHEM 1212L.

CHEM 2900 Principles of Chemistry Research

3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.

This course is designed to introduce chemistry majors to the practical aspects of chemistry research. Topics covered will include laboratory techniques and safety, analysis of chemical data, scientific presentations and ethics associated with data collection and reporting. Additional topics to be covered include career options for chemists.

Prerequisite(s): A minimum grade of "C" in either CHEM 1212K, or CHEM 1212 and CHEM 1212L.

CHEM 3000 Special Topics in Chemistry

5 Credit Hours. 0-3 Lecture Hours. 0-6 Lab Hours.

An intensive study in a specialized field of chemistry. Provides an in-depth look at an area of special interest which is not a part of the standard coursework in chemistry.

Prerequisite(s): Permission of instructor required.

CHEM 3010 Scientific Glassblowing

2 Credit Hours. 0 Lecture Hours. 6 Lab Hours.

Develops the fundamental glassblowing skills required for the construction of glassware used in scientific investigations.

Prerequisite(s): Junior standing and science major required.

CHEM 3100 Instrumental Analysis**4 Credit Hours. 0,4 Lecture Hours. 0,3 Lab Hours.**

The study of modern spectroscopy and chromatography methods. The spectroscopic methods to be covered may include mass spectrometry, ultraviolet/visible spectroscopy, fluorescence spectroscopy, atomic spectroscopy, infrared spectroscopy and raman spectroscopy. The chromatographic methods to be covered may include gas chromatography, liquid chromatography, supercritical fluid chromatography, thin-layer chromatography and capillary zone electrophoresis. Students may not receive credit for both CHEM 3100 Instrumental Chemistry and BCHM 3100 Bioinstrumental Chemistry.

Prerequisite(s): A minimum grade of "C" in CHEM 2100.**CHEM 3300 Inorganic Chemistry****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Introduces students to a broad overview of modern inorganic chemistry. Included are considerations of molecular symmetry and group theory, bonding and molecular orbital theory, structures and reactivities of coordination compounds, organometallic chemistry, catalysis and transition metal clusters. Laboratory experiences will include the measurement of several important features of coordination compounds, such as their electronic spectra and paramagnetism, as well as the synthesis and characterization of organometallic compounds. Majors may not receive credit for both CHEM 3300 Inorganic Chemistry and BCHM 3310 Bioinorganic Chemistry.

Prerequisite(s): A minimum grade of "C" in CHEM 2100 and CHEM 3402.**CHEM 3401 Organic Chemistry I****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

Introduces the fundamental concepts of structure and reactivity of organic compounds. Topics covered include the chemistry of alkanes, alkyl halides, alkenes, and alcohols, as well as the concepts of reaction mechanisms, stereochemistry and spectroscopy of organic compounds.

Prerequisite(s): A minimum grade of "C" in either CHEM 1212K, or CHEM 1212 and CHEM 1212L.**CHEM 3401L Organic Chemistry I Lab****1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.**

This course covers the lab content and experiments of Organic Chemistry I - only for students who completed the 3 cr hr lecture of Organic I and need the fourth credit hour and content.

Prerequisite(s): Permission of instructor.**CHEM 3402 Organic Chemistry II****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

A continuation of CHEM 3401 focusing on alkynes, aromatic compounds, aldehydes, ketones, amines, and carboxylic acids and their derivatives. Emphasizes the synthetic and mechanistic aspects of these compounds and will continue the study of spectroscopy of organic compounds.

Prerequisite(s): A minimum grade of "C" in CHEM 3401.**CHEM 3402L Organic Chemistry II Lab****1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.**

This course covers the lab content and experiments of Organic Chemistry II - only for students who completed the 3 cr hr lecture of Organic II and need the fourth credit hour and content.

Prerequisite(s): Permission of instructor.**CHEM 3410 Introduction to Molecular Modeling****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the use of computational chemistry models and their application to chemical research. Topics include the computational methods and model chemistries, single-point energy calculations, geometry optimizations, relative energies and stabilities, calculations of NMR chemical shifts, and vibrational frequency calculations among other topics.

Prerequisite(s): A minimum grade of "C" in CHEM 3401.**CHEM 3501 Chemical Kinetics and Thermodynamics****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

A survey of chemical kinetics and thermodynamics. Covers the kinetic theory of gases, rates of reaction, integrated rates, rate laws and reaction mechanisms, followed by a development of the three laws of thermodynamics, chemical and phase equilibria and solution thermodynamics. Students may not receive credit for both CHEM 3501 Chemical Kinetics and Thermodynamics and BCHM 3510 Biophysical Chemistry.

Prerequisite(s): A minimum grade of "C" in CHEM 2100 and MATH 2242 and PHYS 2211K.**Cross Listing(s):** BCHM 3510.**CHEM 3502 Introduction to Quantum Chemistry****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

A development of quantum chemistry and its application in a number of relevant areas. Covers atomic structure, molecular structure, molecular spectroscopy, and statistical mechanics.

Prerequisite(s): A minimum grade of "C" in CHEM 2100 and MATH 2242 and PHYS 2212K.**CHEM 3700 Teaching Internship in Chemistry****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Student internship in the laboratory component of CHEM 1040 (Chemistry and the Environment) under the mentorship of a faculty member. The student will participate in an introductory workshop immediately prior to the start of the semester, intern in the CHEM 1040 laboratory and meet with the faculty mentor one hour each week. One credit hour per laboratory section of CHEM 1040 in which the student interns.

Prerequisite(s): A minimum grade of "D" in CHEM 2900 or CHEM 3401 and permission from the instructor.**CHEM 4050 Ethical Issues in Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore the ethical issues of science integrity and responsibility that have confronted the scientific community in the past and today as it relates to research practices and its impact on the public domain.

Prerequisite(s): A minimum grade of "C" in CHEM 3402.**CHEM 4110 Advanced Spectroscopy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to modern chemical structure elucidation using spectroscopic techniques. Details of multi-nuclear one dimensional NMR spectra are discussed in depth, detailing both the background behind the techniques and their use in determining chemical structure. Multi-nuclear two-dimensional NMR spectra are used introduced as well, as well as the use of Fourier Transform IR spectroscopy and UV-Vis region spectroscopy.

Prerequisite(s): A minimum grade of "C" in CHEM 2100 and CHEM 3402.**CHEM 4120 Electrochemical Analysis****3 Credit Hours. 0,3 Lecture Hours. 0 Lab Hours.**

Theory and practice of modern electrochemical methods of analysis. These methods include potentiometry, coulometry, voltammetry, computer simulation and other modern forms of electrochemical analysis.

Prerequisite(s): A minimum grade of "C" in CHEM 2100.**CHEM 4130 Industrial Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide an overview of the chemical industry. In addition to providing a basic understanding of the top 50 industrial chemicals, their manufacturing processes, and raw materials sources, the course will also cover the origin and manufacture of basic petroleum feed stocks and petrochemicals; catalysis; pulp and paper chemistry; polymers and plastics; adhesives, sealants, and glues; agricultural chemistry; pharmaceutical chemistry; and selected topics of importance to the industry.

Prerequisite(s): A minimum grade of "C" in CHEM 3300.

CHEM 4140 Principles of Chemical Separations**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course will examine theories, and models of separation with applications to the analyses of a wide range of chemical, biological, and environmental samples. Topics include high-resolution gas chromatography and high-performance liquid chromatography. Emphasis is on the theory of reverse-phase, normal-phase, ion-exchange, size-exclusion, and affinity-based separations. Instrumentation such as detectors, pumps, and columns, and data acquisition and analysis are also presented.

Prerequisite(s): A minimum grade of "C" in CHEM 2100.**CHEM 4150 Chemometrics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will cover application of mathematical and statistical techniques for the analysis of complex chemical data set and to support experimental design.

Prerequisite(s): A minimum grade of "C" in CHEM 3100 and CHEM 3402.**CHEM 4160 Forensic Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to forensic chemistry, which may include utilization of physical evidence in law enforcement, processing a crime scene, the application of chemistry principles to the identification and analysis of physical evidence, toxicology, microscopy, and aspects of arson.

Prerequisite(s): A minimum grade of "C" in CHEM 3100 and CHEM 3402.**CHEM 4210 Biotechnology and Biocatalysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces principles and techniques in biotechnology. The biotechnology topics will be used to study the past, present, and future of biocatalysis.

Prerequisite(s): A minimum grade of "C" in BCHM 5201.**Cross Listing(s):** BCHM 4210.**CHEM 4220 Chemistry of Biofuels****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the principles of fuels and biofuels. It will also cover the latest in biochemistry and biotechnology and apply this knowledge to current research in biofuels.

Prerequisite(s): A minimum grade of "C" in BCHM 5201.**Cross Listing(s):** BCHM 4220.**CHEM 4310 Polymer Materials****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce the world of polymer materials, which have become ubiquitous in daily life. The course will cover how polymers are synthesized and characterized, the unique properties of polymers, and how polymer materials are used. Important concepts on polymer structure, molecular weight and its distribution, glass transition, and amorphous versus crystalline state will be introduced.

Prerequisite(s): A minimum grade of "C" in CHEM 3401.**CHEM 4320 Green Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on understanding the basic principles of green chemistry and applying them to make organic reactions and processes environmentally benign. Other course topics will include the study of the earth and its atmosphere, the concept of atom economy, catalysis, and enzyme catalysis, as well as green reaction media and the use of various renewable energy sources in organic reactions.

Prerequisite(s): A minimum grade of "C" in CHEM 3402.**CHEM 4330 Solid State Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is an introductory course in solid state chemistry. It will cover synthesis, structure-property relationships and common characterization techniques for solid materials. The lab component will cover select syntheses and characterization techniques of extended solids, focusing on Single crystal and Powder X-ray diffraction structure determinations, and Rietveld Refinement techniques.

Prerequisite(s): A minimum grade of "C" in CHEM 3100 and CHEM 3300.**CHEM 4340 Materials Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will be an introduction to materials chemistry, with emphasis on the interdisciplinarity of material research. It will overview various classes of materials, including synthesis and characterization, their structural and physical properties, and how those properties relate to their potential applications.

Prerequisite(s): A minimum grade of "C" in CHEM 3300 and CHEM 3402.**CHEM 4410 Food Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the chemistry associated with the production and processing of food. Includes an examination of the primary literature.

Prerequisite(s): A minimum grade of "C" in CHEM 3402.**CHEM 4510 X-ray Crystallography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Diffraction and crystal structure with identification from single crystal and powder patterns. Lattice parameters and crystal orientation.

Prerequisite(s): A minimum grade of "C" in CHEM 2100 and CHEM 3402.**CHEM 4790 Chemistry Internship****1-4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Intended primarily for students who plan to seek employment in the chemical industry after graduation rather than going on to graduate or professional studies, this course will provide students with practical experience in industry and business. Students will secure employment on their own, earning academic credit and possible compensation, and gain practical experience and technical training. Students must complete a minimum of 120 hours of on-site work for each credit hour earned.

CHEM 4900 Chemical Research Experience**1-4 Credit Hours. 0 Lecture Hours. 3-12 Lab Hours.**

An independent research experience in which a student will investigate a research problem under the direction of a faculty member. All laboratory.

Prerequisite(s): Permission of instructor required.**CHEM 4990 Independent Study****1-3 Credit Hours. 1-3 Lecture Hours. 3-9 Lab Hours.**

Supervised individual research or study.

CHEM 5110 Environmental Chemistry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the current environmental issues and the underlying chemistry associated with them, including stratospheric chemistry, air pollution, global climate change, toxic organic chemicals, natural water systems, soil chemistry, and energy production.

Prerequisite(s): A minimum grade of "C" in CHEM 2100 and CHEM 3401.**Cross Listing(s):** CHEM 5110G.**CHEM 5410 Advanced Organic Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course designed to build upon the knowledge gained in CHEM 3401 (Organic I) and CHEM 3402 (Organic II). Topics covered may include considerations of structural and mechanistic organic chemistry, synthetic organic chemistry and bioorganic chemistry.

Prerequisite(s): A minimum grade of "C" in CHEM 3402.**Cross Listing(s):** CHEM 5410G.

CHEM 5420 Principles of Drug Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course designed to introduce the chemistry of drug design and development, as well as drug actions and their impacts on society. Topics include drug discovery, receptor site theory, neurotransmitters, pharmacokinetics, federal drug laws, drugs in sports and individual classes of drugs.

Prerequisite(s): A minimum grade of "C" in CHEM 3402.**Cross Listing(s):** CHEM 5420G.**CHEM 5430 Carbohydrate Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides students with an introduction to the chemistry of carbohydrates. Topics include structural aspects, stereochemistry, synthesis, conformational analysis, polysaccharides, and vaccine development.

Prerequisite(s): A minimum grade of "C" in CHEM 3402.**Cross Listing(s):** CHEM 5430G.**CHEM 5110G Environmental Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the current environmental issues and the underlying chemistry associated with them, including stratospheric chemistry, air pollution, global climate change, toxic organic chemicals, natural water systems, soil chemistry, and energy production. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): CHEM 5110.**CHEM 5410G Advanced Organic Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course designed to build upon the knowledge gained in CHEM 3401 (Organic I) and CHEM 3402 (Organic II). Topics covered may include considerations of structural and mechanistic organic chemistry, synthetic organic chemistry and bioorganic chemistry. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): CHEM 5410.**CHEM 5420G Principles of Drug Design****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course designed to introduce the chemistry of drug design and development, as well as drug actions and their impacts on society. Topics include drug discovery, receptor site theory, neurotransmitters, pharmacokinetics, federal drug laws, drugs in sports and individual classes of drugs. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): CHEM 5420.**CHEM 5430G Carbohydrate Chemistry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides students with an introduction to the chemistry of carbohydrates. Topics include structural aspects, stereochemistry, synthesis, conformational analysis, polysaccharides, and vaccine development. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): CHEM 5430.**CHEM 6130 Industrial Science****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide an overview of the chemical industry, focusing on the chemistries located in the Southern US. Topics to be covered will be the origin and manufacture of basic petroleum feedstocks and petrochemicals; catalysis; pulp and paper chemistry; polymers and plastics; adhesives, sealants, and glues; agricultural chemistry, green chemistry, and nuclear chemistry. Financial analysis, costs, and intellectual property will be discussed. The impact of these industries on the economy of the Southern United States will also be addressed.

CHEM 6131 Solid State Materials**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the physical and chemical properties of solids. Topics may include: periodic structure, symmetry of crystals, diffraction, reciprocal lattice, chemical bonding, lattice dynamics, phonons, thermal properties, and free electron gas. Bloch theorem, band structure, nearly free electron approximation, tight binding method, Fermi surface, semiconductors, electrons, holes, impurities, optical properties, excitons, and magnetism will be introduced.

Prerequisite(s): A minimum grade of "C" in MATH 2242.**Cross Listing(s):** CHEM 6131.**CHEM 6133 Photonics Plasmonics & Metamat****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course offers an introduction into theory and models related to photonics and electronics of photonic crystals, plasmonic metal nanostructures, metal-dielectric metamaterials and metasurfaces, localized scatterers and emitters. Students will improve their overall understanding of how these methods and models apply to practical systems related to spectroscopy, imaging, excitation and control over condensed, chemical and biological nano- and microstructures. The course covers a broad range of topics including: dielectric properties of materials in relation to their electronic structure, propagation and emission of radiation in strongly inhomogeneous and anisotropic materials, introduction into plasmonics, properties of photonic crystals and metamaterials, Mie theory of light scattering and near-fields at micro and nanoparticles, optical forces and tweezers, energy and momentum transfer in light-matter interactions and others.

CHEM 6230 Scientific Inquiry and Ethics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide a foundation in modern research methods, data handling and analysis, and a grounding in the current standards for scientifically ethical behavior and publishing.

CHEM 6530 Professional Science Communication**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to prepare professional scientists and science academicians in the skills of effective communication in order to convey scientific principles and knowledge to others in the sciences. It will also create awareness of the need to write promoting science understanding in lay people.

CHEM 6730 Master of Science in Physical Science Internship**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is the required internship for the Master of Science in Physical Science (MSPS) degree. Students will apply their skills and knowledge to a current problem in a professional setting, either on campus or at the site of a participating sponsor.

CHEM 6940 Special Topics in Chemistry**1-4 Credit Hours. 0-4 Lecture Hours. 0-12 Lab Hours.**

Topics chosen from all fields of chemistry dependent on instructor and student interest. Offered by special arrangement.

CHEM 6971 Independent Study I**1-4 Credit Hours. 0-4 Lecture Hours. 0-12 Lab Hours.**

Qualified students perform literature searches and supervised laboratory experimentation and write acceptable research reports. Proposed work must be approved in writing by supervising faculty and department head prior to initiation.

CHEM 7020 Chem for Secondary Sci Teacher**1-4 Credit Hours. 0-4 Lecture Hours. 0-12 Lab Hours.**

Topics in chemistry with emphasis on their application to the secondary science classroom. Hands-on activities may include demonstrations, laboratory experiments and computer technology.

CHEM 7090 Selected Topics/Chemistry**1-6 Credit Hours. 0-6 Lecture Hours. 0-6 Lab Hours.**

A course taught on a one time basis. Lecture only courses will be three credit hours while courses with a laboratory will be four credit hours.

CHEM 7130 Sustainability in the Physical Sciences**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide an overview of sustainability, including current standards of sustainability, quantitative methods of measurement, and current applications of sustainable practices. The twelve Principles of Green Chemistry and Engineering will form the foundation of this course. Case studies, analysis of sustainability trends and common practices, and future research will be covered. Lifecycle analysis, current best practices in sustainability, the triple bottom line, social impacts of sustainability, and other topics will be discussed.

CHEM 7231 Theoretical Chemistry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Chemistry research is increasingly supported by quantum chemical computations. This course will provide students with a complete understanding of ab initio quantum chemistry. Students are exposed to Hartree-Fock, MP2, and Coupled Cluster Theory in addition to basis sets and practical computational approaches. Upon completion, students will be able to choose a proper computational method, to diagnose issues that may arise within such computations, and also to compare methods from mathematical arguments. Prior knowledge in quantum chemistry and/or mechanics is highly recommended.

CHEM 7232 Toxicology of Nanomaterials**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers concepts related to the toxicity of nanomaterials. Students will design methods for studying nanomaterial toxicity as well as for profiling various classes of nanomaterials.

CHEM 7334 Polymer Materials**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce students to the world of polymer materials, which are ubiquitous in daily life around the world. It will cover the chemistry of hard and soft polymers, applied polymer science, and the analysis of polymeric materials. This course will also cover how polymers are synthesized and characterized, what unique properties polymers have, and how polymer materials are used. Material covered will include different ways of synthesizing polymers, including step, chain (free radical, "controlled" free radical, ionic), catalytic, and ring opening polymerizations. Important concepts on polymer structure, molecular weight and its distribution, glass transition, and amorphous versus crystalline state will be introduced. Various physical properties and applications of polymers, including mechanical and electrical properties, will also be briefly described.

CHEM 7335 Coatings Technology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce the fascinating field of coatings technology, which is widely applied in daily life. The course will cover what a coating is typically composed of, what typical coating binders are and how they are made, how to formulate a coating (different coating categories), and how typical coatings properties are affected by various ingredients.

CHEM 7531 Chemistry of Biomolecules I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers the fundamental structure and function of the three major classes of biomolecules: proteins, lipids, and carbohydrates, as well as signal transduction, DNA technologies, and membrane transport.

CHEM 7532 Chemistry of Biomolecules II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers the catabolism and anabolism of biomolecules of proteins, lipids, and amino acids and examines nucleic acid chemistry, including DNA replication, transcription, translation, and recombinant DNA technology.

CHEM 7630 Graduate Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will consist of formal seminars and informal sessions on current topics of interest to the program as presented by visiting lecturers, local researchers, and students. All MS-APS students must attend a set number of seminars each term they are enrolled in the program. Thesis track students in their final semester will prepare a comprehensive presentation on their thesis research as well as submit a report reviewing the topics covered during the seminar series.

CHEM 7895 Research**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Graduate students will pursue, under the direction of their advisory committee, a program of independent research in a particular area of physical science. Results of the research will be presented as a thesis in partial fulfillment of the Master of Science in Applied Physical Science degree.

CHEM 7940 Chem for Middle Grades Teacher**1-4 Credit Hours. 0-4 Lecture Hours. 0-12 Lab Hours.**

Topics in chemistry with emphasis on their application to the middle grades classroom. Hands-on activities may include demonstrations, laboratory experiments and computer technology.

CHEM 7999 Thesis**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Results of an individual, independent research project will be presented as a thesis in partial fulfillment of the Master of Science in Physical Science degree. The thesis requires defense of the design, execution, analysis, and interpretation of the research project.

CHFD Child and Family Devel

CHFD 1131 Introduction to Family Science**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on scientific research about relationship and families across the life course. The primary objective of the course is to acquire a practical understanding of the processes of relationship and family development and a firm grounding in the concepts, facts, theories, and issues in research on them.

CHFD 2130 Family Economic Environment**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the consumer in American society, management of family resources, legal protection and consumer responsibility in the marketplace.

Prerequisite(s): CHFD majors only.**CHFD 2135 Child Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course emphasizes development from conception through the first eight years. Students will review research, theory, and practice that contribute to the developmental trajectory of young children, utilizing a whole child approach.

CHFD 2136 Intro to Family Services**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide students with an interdisciplinary approach to the understanding of family services in a multicultural society. The human services profession is multifaceted and family service is one component of the multidisciplinary field. Students will become familiar with historical and theoretical orientations of the profession; the types and delivery of human services to children, adolescents, adults, and families; skills and functions of human service workers; and community resources.

Prerequisite(s): A minimum grade of "C" in CHFD 1131.**CHFD 2137 Lifespan Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the development of human beings from conception to the end of life. Attention is paid to the multiple social and cultural contexts within which such development occurs. Theories of human development and methods for studying development across the lifespan are also examined.

CHFD 2138 Professional Seminar in Child & Family Development I**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course will focus on an understanding of the CHFD field, differentiating program concentrations, and exploring various career opportunities. Professional organizations and requirements of different careers, including certifications, will be discussed. Students will begin to shape their professional marketability through an introduction to career readiness skills and self-assessment.

Prerequisite(s): A minimum grade of "C" in CHFD 1131.**CHFD 3130 Research Methods****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the basic techniques and methods of research is presented which enables students to effectively read, understand, and critique research, particularly as it pertains to the field of child and family development.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135.**CHFD 3131 Birth to 5 Methods****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Focusing on the characteristics of young children (6 weeks -5 years), this course teaches students how to put developmental theory into practice in a group care setting. Utilizing the Georgia Southern University Child Development Center, students will conduct observations and plan developmentally appropriate activities during their semester-long laboratory experience. Students are required to register for two laboratory sections, one preschool and one infant/toddler, along with the course.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135 and a completion of criminal background check and finger printing procedure.**CHFD 3133 Diversity in Human Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course helps students understand the variability in human development. Students will be challenged to think critically while seeking to understand similarities and differences among people. Students will be encouraged to examine their multiple identities to develop greater awareness of how culture of origin influences their lived experiences.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135.**CHFD 3135 Youth Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course reviews research, theory, and practice as they relate to the physical, cognitive, language, aesthetic, and social and emotional development of children ages 6 to 18 years. Emphasis will be on current issues that relate to these years and planning and implementing developmentally appropriate youth programming. Service-learning hours required.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135.**CHFD 3136 Adult Development and Later Life****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to give students an understanding of the factors that affect individuals and families from emerging/young adulthood through late adulthood. Theories and current research on the physical, cognitive, and psychosocial development of adults is provided. Additional topics include changes in family function and structure, research methodologies, contemporary issues in adult development, and successful aging across the adult years. Service Learning hours required.

Prerequisite(s): A minimum grade of "C" in CHFD 1131.**CHFD 3137 Introduction to Child Life****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A holistic, family centered-approach to the psychosocial and healthcare needs of hospitalized and chronically ill children ages birth to 18 years. This course includes content that will prepare students for certification as child life specialist. Service-learning hours are required.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135.**CHFD 3139 Parent Education and Guidance****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An understanding of how parents teach, guide, and influence children and adolescents as well as the changing nature, dynamics, and needs of the parent/child relationship across the lifespan.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135.**CHFD 3232 Sexuality in Human Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide an understanding of the physiological, psychological, and social aspects of sexual development throughout the lifespan. This class will focus on providing theory, knowledge, research, and multiple perspectives surrounding sexual behaviors.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135.**CHFD 3234 Young Children with Special Needs****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on promoting the optimal development of young children with special needs in inclusionary settings. Building on a foundation of child development and the components of high quality early childhood programs, learners investigate needs which delay or modify the course of a child's development. The course offers an introduction to educational and intervention policies, programs, practices and services appropriate for infants, toddlers, and preschoolers who exhibit delays and disabilities. This course includes observation and application in off-campus education sites.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in CHFD 3131.**CHFD 3235 Therapeutic Benefits of Play in Child Life****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will focus on therapeutic aspects and learning objectives of play, using current theory, research, and developmentally appropriate practice. Theories, principles and values of play in child and adolescent development will be discussed. Therapeutic activities for children and youth coping with health issues will be discussed and demonstrated.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135.**CHFD 4090 Selected Topics in Child and Family Development****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Scheduled on an infrequent basis to explore new research and emerging knowledge in Child and Family Development. This course will carry a subtitle.

CHFD 4130 Administration of Programs for Children and Youth
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines management and leadership principles as they apply to the administration of programs for children and youth. Topics include fiscal management, personnel management, licensure and accreditation, family engagement, marketing and public relations, and assessment and evaluation of programs.

Prerequisite(s): A minimum grade of "C" in CHFD 1131, CHFD 2135, CHFD 3131.

CHFD 4131 Teaching Preschool**3 Credit Hours. 0,2 Lecture Hours. 0,5 Lab Hours.**

This course focuses on planning and implementing a developmentally appropriate, integrated curriculum for children ages 3 to 6 in preschool classrooms. Curriculum planning is organized by developmental domains and themes. Students will observe and participate in the Georgia Southern University Child Development Center preschool classrooms. Students are required to register for one preschool lab section.

Prerequisite(s): A minimum grade of "C" in CHFD 1131, CHFD 2135, CHFD 3131.

CHFD 4132 Death and Bereavement across the Lifespan**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover death and bereavement across the lifespan. Students will use theoretical and research-based information to explore end of life within individual and family contexts. Topics include death at different stages throughout the lifespan, grief and bereavement processes, legal aspects and diverse perspectives and rituals of death and dying.

Prerequisite(s): A minimum grade of "C" in CHFD 1131.

CHFD 4133 Programming and Evaluation for Family Services**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course emphasizes programming and evaluation across family and human service agencies. Topics will include nonprofit and government management needs assessment, program evaluation, and leadership skills.

Prerequisite(s): A minimum grade of CHFD 1131, CHFD 2135, CHFD 2136.

CHFD 4134 Family Life Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the theoretical, ethical, and methodological issues in family life education. Utilizing research and professional practice, students will learn to develop, implement, and evaluate applied educational programs and products that address issues of individuals and families across the lifespan.

Prerequisite(s): A minimum grade of "C" in CHFD 1131, CHFD 2135, CHFD 3139.

CHFD 4135 Parenting: Fam Child Int.**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The structure, function, and process of parenting are explored. An emphasis is placed on understanding characteristics of parents and parenting behavior and their consequences on children and parent-child relationships.

CHFD 4136 Assessment of Children**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course involves the assessment of development and learning of infants, children, and youth. A variety of tools and techniques will be used. Participation and collaboration as a team member is emphasized.

Prerequisite(s): A minimum grade of "C" in CHFD 1131, CHFD 2135, CHFD 3131.

CHFD 4138 Professional Seminar in Child & Family Development II
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

This course addresses professional competencies and ethical practice in human service-related careers. Students will apply strategies for acquiring an internship and/or employment including self-assessment of their transferable skills and fine-tuning professional resumes, cover letters, and interview skills. The course places an emphasis on navigating workplace culture, developing professional communication skills, and the application of ethical codes of conduct. This course should only be taken one semester before the student's internship/final semester.

Prerequisite(s): A minimum grade of "C" in CHFD 1131, CHFD 2135, CHFD 2136, CHFD 2138, CHFD 3131, CHFD 3133, CHFD 3135, CHFD 3136, CHFD 3139.

CHFD 4150 Families, Schools, and Community Partnerships**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the relationship between families, schools and the communities in which they exist. Specific attention is paid to the variety of ways to support diverse families (eg. racial/ethnic/cultural, religious, economic, language, structural). Topics explored include but are not limited to family-school involvement, collaboration and partnership, theoretical perspectives related to families, families within the political context, and family strengths and stress.

Prerequisite(s): A minimum grade of "C" in all of the following: CHFD 1131, CHFD 2135, CHFD 3131, CHFD 3139.

CHFD 4237 Legal and Public Policies Affecting Families**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines legal and public policies that affect families. Students will apply research, theory and developmentally appropriate knowledge to address contemporary public policy topics affecting families across the life span. Social policies will be analyzed from individualistic and familial perspectives to explore their impact on family processes.

Prerequisite(s): A minimum grade of "C" in CHFD 1131 and CHFD 2135 and CHFD 2136.

CHFD 4238 Child Life Practice in Healthcare**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to foster the proficiency of the individuals pursuing a career in child life. Preparation that provides a theoretical and practical base for students will allow them to build a foundation of knowledge in the core competencies of child life. Through observation and interaction, the student will gain a working knowledge of how children and families are affected by illness and hospitalization.

Prerequisite(s): A minimum grade of C in CHFD 1131, CHFD 2135, CHFD 2136, and CHFD 3137.

CHFD 4790 Internship in Child and Family Development**9-12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The CHFD internship is a supervised experience in the Child and Family Development field where the intern employs the knowledge base acquired in their course work. Students must have a 2.5 GPA to apply to intern. The internship site is selected by the student after consulting with faculty and must be approved by the internship committee. Students enrolled in the program must comply with regulations required by the internship site and CHFD best practices. Interns must complete all components and required hours of the internship to receive a passing grade in the course. Interns will work full-time at the internship site for the entire semester.

Prerequisite(s): A minimum grade of "C" in CHFD 1131, CHFD 2130, CHFD 2135, CHFD 3131, CHFD 3133, CHFD 3135, CHFD 3136, CHFD 3139, CHFD 4138.

CHFD 4899 Directed Individual Study**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides the student with the opportunity to investigate an area of interest under the direction of a faculty mentor.

Prerequisite(s): Permission of Instructor.

CHFD 6130 Parent Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of theory, research and developmental practice to: 1) understand the role of parents, teachers and community leaders in guiding the behavior of children from birth to adolescence; 2) establish mutually satisfying parent-child relationships throughout the life cycle; and 3) explore programs for parents and parental interactions with schools and other institutions.

Prerequisite(s): Completion of the Masters of Education core curriculum.**CHFD 6131 Assessment of Children's Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Assessment of Children's Development will prepare the graduate student to evaluate development and learning in the social, affective, physical and cognitive domains. Students will examine classroom and standardized assessment procedures as they relate to developmentally appropriate practices. Students will administer and score tests and then interpret results using a variety of assessment techniques.

CHFD 7090 Selected Topics in Child and Family Development**1-3 Credit Hours. 1-3 Lecture Hours. 0-3 Lab Hours.**

Provides the student with an opportunity for in-depth study of selected topics in Child and Family Development.

Prerequisite(s): Permission of Instructor.

CIED Valdosta State-Franchise

CIED 7601 Course Management systems for E-Learning**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The study and ethical practice of facilitating online learning through integrated course management systems.

CIED 7602 Resources and Strat for E-Lear**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Practical experiences in selection, implementation, and evaluation of digital resources and strategies for teaching and learning.

CIED 7603 Design and Delivery of Inst E-Learning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A supervised online field-based experience in design, delivery, and evaluation of standards-based content to an appropriate student population.

Prerequisite(s): A minimum grade of "D" in CIED 7601 and CIED 7602.

CISM Computer Infor Systems

CISM 1110 Computer Applications**1 Credit Hour. 0 Lecture Hours. 1 Lab Hour.**

Provides lecture and detailed instruction in application software using word-processing, spreadsheets, database and presentation software.

Corequisite(s): CISM 1120.**CISM 1120 Computer Concepts****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Provides an introduction of computer concepts and the evolution of computers in society. Lecture topics include computer system components, data representation & storage, software & multimedia, computer architecture, data communications & network configuration, data security & privacy, viruses, ethic, email, Internet, and the computer marketplace.

CISM 1130 Computers and Applications**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.****CISM 1131 Computer Survival Skills****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a survey and instruction in the use of modern systems and applications software routinely used in personal, academic, and organizational computing. The purpose of the course is to aid students in becoming familiar and proficient in using common software and Internet tools. The topics address a wide variety of software available to manage personal computers; create, format, edit, convert, acquire, distribute and manage various PC and Internet file types; use and manage Web-based communications like email, FTP, IM, Chat and Blogs; effectively and efficiently use the Internet to search, acquire, research and manage Web-based content, data, and information; use established informational Web-sites for research. Other topics include PC and Internet security and risks, and recent developments in technologies and software that affect the typical computer user. This course is not a substitute for either CISM 1110, CISM 1120, or CISM 2530.

CISM 2030 Introduction to Business Programming**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introductory computer programming course on using an object-oriented programming language to solve business problems. Students will learn basic programming concepts which include data types, control flow, and graphical user interface-based applications. The examples and problems are drawn from the areas of enterprise systems and business analytics.

Prerequisite(s): A minimum grade of "C" in BUSA 1105.**CISM 2230 Advanced Java****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course extends the fundamental principles of object-oriented programming using Java as our tool. The focus of this class is on advanced applications development. Topics include: objects, classes, inheritance, interfaces, GUI components, layout managers, events, multimedia, exception handling, and I/O files.

Prerequisites: A "C" or better in CSCI 1236 (or equivalent) and a solid understanding of data types, control structures, and algorithm design.**CISM 2530 Advanced Business Applications****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide students with hands-on experience in creating advanced business applications using spreadsheet and database management system (DBMS) tools. Advanced topics in word-processing and presentation tools will also be explored.

CISM 3131 Management Information Systems**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

An overview of the utilization of information technology in business organizations to support managerial decision making and to provide competitive advantage. This course will address the evolution of information and information technology as corporate assets, how information technology is reshaping organization structures and work processes, how it is changing business relationships among organizations, and emerging information technologies expected to significantly impact business operations in the years ahead.

Prerequisite(s): A minimum grade of "C" in all of the following: CISM 2530 and ACCT 2030 or ACCT 2101 and Sophomore standing.**CISM 3133 Database Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An applied study of database design and implementation with a focus on relational database systems and structured query language (SQL). Other topics include database management, data warehouses, and related applications.

Prerequisite(s): A minimum grade of "C" in CISM 2030 and CISM 3131.

CISM 3134 Enterprise Infrastructure and Security**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the technology and management of the components that comprise today's enterprise IT infrastructure, including its hardware, software, and networks. The course covers network architectures and protocols for the Internet including mobile and cloud computing, and discusses the pertinent security considerations.

CISM 3135 Enterprise Systems Analysis and Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to traditional and object-oriented analysis and design methods to solve business problems. Students will apply data and process modeling techniques to analyze the existing enterprise systems. The physical design will be performed by designing a customization to existing enterprise systems.

Prerequisite(s): A minimum grade of "C" in the following: CISM 2030, CISM 3133, CISM 3333 and Junior standing.

CISM 3237 Visual Basic.Net Windows and Web Applications Programming**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to Visual Basic.Net which is a leading edge object oriented programming language that integrates with .Net platform to provide a programming component for Windows applications, as well as Internet and World-Wide-Web applications. The student will be exposed to and learn topics related to object oriented programming, strings, graphics, graphical-user-interface components, exception handling, multithreading, multimedia (audio, images, animation and video), file processing, prepackaged data structures, database processing, Internet and World-Wide-Web based client/server networking and distributed computing.

Prerequisite(s): CISM 2230.

CISM 3331 Principles of Enterprise Information Systems Security**3 Credit Hours. 0,2 Lecture Hours. 0,1 Lab Hours.**

An introduction to the various policy, administration, management, and technical aspects of information systems security across the enterprise. This course provides the foundation for understanding key policies and issues associated with protecting information assets; designing a consistent, reasonable information security system; identifying alternatives for determining the necessary levels of protection; and developing and administering appropriate responses to security incidents. Included are design issues for appropriate intrusion detection, disaster incidents, and reporting for various enterprise networking infrastructures.

Prerequisite(s): A minimum grade of "C" in CISM 3134.

CISM 3333 ERP Systems Using SAP**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on Enterprise Planning (ERP) using SAP R/3. Students will spend computer intensive time navigating in SAP and completing SAP lab assignments. Currency in ERP developments by subscribing to Internet newsletters on ERP or SAP developments is required. Students will also be required to complete a major ERP project and give a presentation on important recent ERP developments.

Prerequisite(s): A minimum grade of "C" in ACCT 2101 or ACCT 2030 and CISM 3131.

CISM 4135 General Project Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course focuses on principles and processes of traditional project management, specifically as they relate to the development of information systems to solve business problems. Students will learn the principles of defining, planning, tracking progress and closing of projects. In addition, team building and working with others is emphasized to improve efficiency and effectiveness. The students will have an opportunity to work with current Project Management software tools to emphasize the application of these concepts.

Prerequisite(s): A minimum grade of "C" in CISM 3131.

CISM 4136 Global Information Resource Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the international management of the organization's information systems function from the perspective of information as a critical organization resource and as a key to competitiveness in the global market. Emphasis will be placed on the application of technology to meet information systems requirement.

Prerequisite(s): A minimum grade of "C" in CISM 3134 and CISM 3135.

CISM 4137 Project Management for Analytics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course focuses on principles and processes of managing analytics projects. This course applies agile principles to solve analytics problems. Students will be exposed to current analytics life cycle management methodologies. These methodologies will be employed in the context of an agile project process. Students will execute several cycles of analytics projects using tools learned in previous courses to answer analytics questions.

Prerequisite(s): A minimum grade of "C" in CISM 3131 and CISM 4437.

CISM 4138 Agile Project Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course focuses on principles and processes of agile project management, specifically as they relate to the development of information systems to solve business problems. This course builds on the principles of Object-Oriented Analysis and Design as they are applied in an agile environment. The students will have an opportunity to work with current agile techniques and methodologies to emphasize the application of these concepts.

Prerequisite(s): A minimum grade of "C" in CISM 3131 and CISM 3135.

CISM 4237 Business Intelligence**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to business intelligence and business analytics. Students will be exposed to recent technological developments in these areas, as well as best practices.

Prerequisite(s): A minimum grade of "C" in CISM 3131 or IT 3233.

CISM 4238 Network Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An applied study of the problems inherent in the maintenance and management of the heterogeneous networking environments prevalent in the modern business enterprise. Emphasis will be placed on acquiring and integrating the practical management/technical skills that define the effective networking specialist.

Prerequisite(s): A minimum grade of "C" in CISM 3134.

CISM 4239 Advanced Business Analytics with SAP HANA**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course covers advanced practices and concepts in the areas of business intelligence and business analytics. The course will emphasize more the data foundation required to support business intelligence and business analytics, rather than associated applications. Special emphasis will be given to the SAP HANA big data platform.

Prerequisite(s): A minimum grade of "C" in CISM 3133 and CISM 4237 or IT 3233.

CISM 4332 Electronic Business**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the linkage between organizational strategy and networked information technologies to implement a rich variety of business models in national and global contexts connecting individuals, business, governments, and other organizations to each other. The course examines e-business strategy and the development and architecture of e-business solutions and their components.

Prerequisite(s): CISM 2230 and CISM 3134, MKTG 3131.

CISM 4333 Human Resource Information Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, and ensure compliance with employment law. The focus will be on merging computer technology with a strategic human resource management perspective.

Prerequisite(s): A minimum grade of "C" in MGNT 3334.

CISM 4335 Advanced Business Applications Programming (ABAP) for the SAP/ERP System**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course provides an overview of the ABAP programming language for the SAP enterprise resource planning system. Students will learn how to access database tables, design input screen selections and generate output list reports. Students will write a variety of beginning and intermediate level programs using the ABAP workbench, ABAP objects, and data dictionary tools. Modular programming technique such as subroutines, function modules, and events will also be discussed.

Prerequisite(s): A minimum of "C" in CISM 2030 and prior or concurrent enrollment in CISM 3133 and CISM 3333 or IT 3233.

CISM 4336 ERP and Enterprise Performance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of Enterprise Resources Planning (ERP) systems and their impact on organizations. Organizational interest in integrated enterprise information systems and the factors that drive businesses to select and implement these solutions are addressed. Research evidence demonstrating the impact of ERP systems on enterprise performance is reviewed and students gain further understanding of the integrative nature of ERP systems by completing exercises using simulated ERP environments.

Prerequisite(s): A minimum grade of "C" in ACCT 2030 or ACCT 2101.

CISM 4434 Enterprise System Configuration**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course focuses on configuring and testing an Enterprise Resource Planning (ERP) system for use in a large organization. Students learn how to set up a manufacturing company from the ground up. Throughout the course, students will create and test the organizational structure, master data, and business rules to integrate business processes such as accounting, procurement, sales, production, and warehouse management.

Prerequisite(s): A minimum grade of "C" in CISM 3135.

CISM 4435 ERP Web Portal Customization and Collaboration using SAP NetWeaver**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on how and why web-based ERP systems such as SAP Enterprise Portals are customized to extend their support of business processes. The course applies web portal customization and collaboration tools to illustrate key course concepts. The characteristics and benefits of enterprise web portals are examined along with the tools and processes used to implement and measure their success.

Prerequisite(s): A minimum grade of "C" in CISM 3333.

CISM 4436 SAP TERP10 Review**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is a preparation course for the TERP10 SAP Academy Certification. Recommended for students who have completed 2 or more SAP approved courses toward earning their SAP Certificate.

Prerequisite(s): A minimum grade of "C" in ACCT 2030, ACCT 2101, CISM 3333, CISM 4336, and CISM 4434.

CISM 4437 Machine Learning for Business**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers key machine learning tools and techniques as applied within a business context, including the use of AI models for classification, association, linear model estimation, instance-based learning, and clustering. It will also include discussions of text and web mining, as well as artificial intelligence and neural networks as utilized for big data analytics. Ethical issues regarding AI and ML models will be discussed.

Prerequisite(s): A minimum grade of "C" in BUSA 3131 and CISM 2030.

CISM 4530 Big Data Tools and Techniques**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course covers the tools, techniques, and technology infrastructure that make storing, retrieving, and analyzing massive amounts of data, or big data, possible. The topics that will be covered include the Hadoop ecosystem, Spark, NoSQL databases, in-memory databases, cloud services (AWS, Azure, etc.), and big data security.

Prerequisite(s): A minimum grade of "C" in CISM 3133.

CISM 4790 Internship in Information Systems**3,6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised work-study program in selected business firms throughout the southeast.

Prerequisite(s): Minimum institution GPA of 2.5 and permission of Department Chair or Internship Director.

CISM 4830 Special Problems in Information Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A customized course that is under the direction of a faculty sponsor. This course is designed to offer students an opportunity to pursue studies or topics not covered in scheduled courses. The scope and nature of the material covered is determined in consultation with the faculty sponsor.

Prerequisite(s): Senior standing.

CISM 4890 Directed Study in Information Systems**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Designed for independent study and research in selected areas of information systems under faculty supervision.

Prerequisite(s): Permission of Department Chair.

CISM 7030 Special Topics in Information Systems**3 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.**

Provides the student with an opportunity for in-depth study of selected topics in Information Systems.

CISM 7231 ERP Business Process Analysis Using SAP**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Many business organizations have adopted enterprise resource planning (ERP) systems, such as SAP, to provide a platform for supporting and integrating core business processes such as accounting and finance, procurement, production planning, material management, and sales and distribution. This course focuses on Enterprise Resource Planning (ERP) systems and utilizes SAP to illustrate how ERP systems are employed in business organizations to support business processes. At the end of the course, students will have an overview of ERP characteristics, components and benefits; they will be familiar with the SAP graphical user interface (GUI) and navigation. Completion of MBA 7635 is recommended.

CISM 7331 Enterprise Systems Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course emphasizes the methods, techniques, and tools of analyzing and designing an enterprise information system. Topics include design methodologies, data collection and analysis techniques, and design tools. Students will analyze problems of the current enterprise system, propose alternatives to resolve the problems, and implement their design to change/replace the current system. The implementation will be supported by modern enterprise resource planning tools such as SAP. Completion of MBA 7635 is recommended.

CISM 7335 Business Intelligence and Performance Management Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the process of decision making, decision support systems, data warehousing, extraction, transformation and load (ETL) processes, on-line analytical processing (OLAP), enterprise performance management systems, and data mining. A number of software products from SAP are featured in this course, as well as software from other vendors. Completion of MBA 7635 is recommended.

CISM 7336 Enterprise Information Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Many organizations use large enterprise information systems, such as SAP, as the core of the financial, human resource, logistics, and manufacturing information systems. This course focuses on Enterprise Resource Planning (ERP) using SAP, along with Enterprise Architecture and other methods to implement an enterprise information solution. Special topics include managing SAP projects successfully. Completion of MBA 7635 is recommended.

CISM 7339 ERP Certification Review**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the integration of business processes within SAP and prepares students for SAP's C_TERP10_60 certification exam. It serves as a capstone course for the ERP Certificate program and components of other graduate programs that include multiple courses that expose students to SAP. Completion of CISM 7231 is recommended.

COHE Community Health

COHE 6130 Research Methods in Community Health**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to research methods in community health. Development and presentation of practicum and research proposals will be the focus of the course. Additional emphasis will be placed on writing skills in research and grant applications.

COHE 7090 Selected Topics in Community Health Education**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Allows the student the opportunity to receive specialized and/or focused instruction in a community health topic not generally offered by the department.

COHE 7232 Health Promotion Planning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces the student to the theory and application of planning and evaluation principles. Planning and evaluation skills will be developed that can be utilized in a variety of health-related settings. Familiarizes students with theories and models from the social and behavioral sciences and health education used in behavior change interventions. Emphasizes the planning and implementing of community health interventions at multiple ecological levels.

COHE 7233 Ecologically Focused Program Evaluation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of the principles of program evaluation. It explores the methods associated with systematic evaluation of public health education programs. Students will learn the skills needed to plan, conduct, and critique evaluation research. The content of the course includes: program logic models, formative, process, impact, outcome, and summative evaluation; theory driven evaluation; a review of validity issues as they relate to evaluation; sampling in a complex context; operationalizing variables; assessment of measurement instruments; and analysis of quantitative evaluation designs. In addition, issues that impact evaluation across the ecological model, specifically the importance of context and equity issues, will be examined. Qualitative methods used in program evaluation and mixed method designs for evaluation will be highlighted. Supporting the needs of all stakeholders in the evaluation will be emphasized.

Prerequisite(s): A minimum grade of "B" in COHE 7232.

COHE 7234 Community Health Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced concepts in the purpose and methods of community health organization, social action, organizational development, policy influence, capacity building, community diagnosis (needs assessment), social networking and coalition formation to bring about health behavior change and improved quality of life. Special focus on the application of methods presented to develop and enhance community health education intervention efforts.

COHE 7237 Rural Community Health Issues**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of social, economic, political, and cultural influences that impact the health of individuals and families in rural communities. Designed for health professionals, this course focuses on improving health status and developing culturally appropriate and effective intervention and services in rural settings.

COHE 7238 Communication for Change**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to familiarize students with the history and current applications of health communication theory and strategies to public health practice and research. This course examines how to structure, develop and evaluate social marketing, media advocacy, risk communication and advocacy skills for change. In addition, systematic qualitative data collection processes such as interviewing skills, participant observation and focus groups will be developed. Emphasis is placed on critical thinking skills to help students analyze and utilize these skills in research and practice.

COHE 7890 Directed Individual Study**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

COML Comparative Literature

COML 2531 Crossing Borders**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is the foundation course for the Minor in Comparative Literature. It is designed as a transcultural, interdisciplinary course in which students discover and analyze English and other national literatures in translation. Course includes guest lecturers from a number of related disciplines.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.

COML 3090 Selected Topics**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Selected topics in comparative literature.

COML 3530 Literary Translation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the history and theory of literary translation. Emphasis on practical problems and techniques, with exercises culminating in the translation of a foreign language text appropriate to the student's interests and abilities.

COML 5330 World Drama to Romanticism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of representative works of dramatic literature, primarily of the western world, from Aeschylus through Beaumarchais, excluding English drama.

Prerequisite(s): A minimum grade of "C" in all of the following: ENGL 2111 and prior or concurrent enrollment in ENGL 2131.

Cross Listing(s): COML 5330G.

COML 5530 The Bible as Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the literary dimension of the English Bible. Major emphasis is upon the literary themes, types, personalities, and incidents of the Old and New Testaments.

Prerequisite(s): A minimum grade of "C" in ENGL 2111 and ENGL 2131.

Cross Listing(s): COML 5530G.

COML 5533 Literary Criticism and Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An historical survey of literary criticism and theory from antiquity to modern times. Literary criticism considers issues important for all students of literature, such as the value of poetry in our world, the power of poets to represent reality or truth, and the sources of poetic inspiration. This course also delves into the subject of aesthetics, the nature of beauty, and the variety of forces that impact how humans respond to literature.

Prerequisite(s): COML 2531.

Cross Listing(s): ENGL 5533.

COML 5536 Post-Colonial Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines and evaluates the diverse "common-wealth" of post-colonial Anglophone literature written by authors from countries that were formerly part of the British Empire: Africa, Australia, Canada, the Indian sub-continent, Ireland, New Zealand, Southeast Asia, and the West Indies. Highlights the use of a variety of reading and critical strategies to analyze the formal and linguistic complexities and innovations of this literature.

Prerequisite(s): A minimum grade of "C" in ENGL 2131.

Cross Listing(s): COML 5536G.

COML 5330G World Drama to Romanticism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of representative works of dramatic literature, primarily of the western world, from Aeschylus through Beaumarchais, excluding English drama. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in ENGL 2111 and ENGL 2131.

Cross Listing(s): COML 5330.

COML 5530G The Bible as Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the literary dimension of the English Bible. Major emphasis is upon the literary themes, types, personalities, and incidents of the Old and New Testaments. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in ENGL 2111 and ENGL 2131.

Cross Listing(s): COML 5530.

COML 5536G Post-Colonial Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines and evaluates the diverse "common-wealth" of post-colonial Anglophone literature written by authors from countries that were formerly part of the British Empire: Africa, Australia, Canada, the Indian sub-continent, Ireland, New Zealand, Southeast Asia, and the West Indies. Highlights the use of a variety of reading and critical strategies to analyze the formal and linguistic complexities and innovations of this literature.

Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Prior or concurrent enrollment in ENGL 2131.

COMM Communication Arts

COMM 1100 Human Communication**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys the historical roots of communication, discusses the encoding and decoding of messages, and introduces the contexts of communication.

Prerequisite(s): A minimum grade of "C" in ENGL 1101 or WRIT 1101.

COMM 1110 Public Speaking**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The critical study and practice of public speaking emphasizing the art of rhetoric from a humanistic perspective. Areas of study include research and preparation, ethics, audience analysis, and presentation of speeches.

Prerequisite(s): A minimum grade of "C" in ENGL 1101 or WRIT 1101.

COMM 2332 Media and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to print and electronic mass communications and media-related professions. Surveys the media's historical development in the United States with particular focus on structure, social roles, and related theories. Also considers change factors that can affect the future of media.

COMM 3030 Selected Topics In Communication Arts**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Offers varied courses in specialized areas of field of Communication Arts. Department approval required.

COMM 3331 Media Criticism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Familiarizes students with dominant paradigms currently used in media studies. Particular emphasis will be given to theories addressing the social context of the media and criticism as a rhetorical act.

Cross Listing(s): COMM 3331 .

COMM 3332 Voice and Phonetics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.****COMM 3336 International Media Systems****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course comparatively studies mass media systems around the world. It analyzes media systems in terms of relevant political, social, economic and cultural factors. Diversity and change in global communication is a main theme. The influence of rapidly-advancing technology is analyzed for its dynamic impact around the world, especially in developing nations.

Prerequisite(s): A minimum grade of "C" in COMM 2332.

COMM 3337 Mass Communication Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys freedom of speech and press and its limitations by laws governing libel, privacy, copyright, contempt, free press, broadcast regulation, fair trial and reporter's shield. Broadcast industry self-regulation and ethical concerns of mass communications will be discussed.

Prerequisite(s): A minimum grade of "C" in COMM 2332.

COMM 3360 Critical Approaches to Mass Cultural Expression**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of theoretical and critical approaches to various forms of cultural expression, including film, television, popular literature, magazines, music, video, and radio. Applications of differing critical methodologies.

Prerequisite(s): A minimum grade of "C" in ENGL 2100.

COMM 3430 Media Management and Sales**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students will examine the organization and operation of media operations' policies and procedures. Students will also examine media management theory and practice, key media administrator roles, media industry processes and departments, and media manager skills in finances, personnel, programming, promotion/marketing, selling of commercial advertising in media and audience research.

Prerequisite(s): A minimum grade of "C" in COMM 2332.

COMM 3431 Digital Media Entrepreneurship
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on the business side of the information business, specifically digital media startups. As part of this course, students develop an original idea for a digitally-based media startup, research and analyze the potential market for the startup, and develop a basic media business. This course would also look at the behavior of entrepreneurs, but will be focused more on media entrepreneurs and the development of student ideas into potential media startup projects.

Prerequisite(s): A minimum grade of "C" in COMM 2332.

COMM 3530 Media Ethics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course involves the study of moral and professional conduct within various mass communication contexts and provides students with the ability to recognize and confront potential ethical, diversity and shifting cultural issues as journalists and media consumers.

Prerequisite(s): A minimum grade of "C" in COMM 2332.

COMM 4330 History of Mass Communication
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course surveys the history of newspapers, magazines, radio and television, and web media content with emphasis upon their correlation with political, social and economic trends in America.

Prerequisite(s): A minimum grade of "C" in COMM 2332 and Junior standing.

COMM 4331 Gender, Media, and Representation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on three basic areas with regard to women and media: 1) the representation of women in the media; 2) the status of women as media professionals; 3) the ways women make use of media as audience members.

COMM 4332 Contemporary Communication Application
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Offers analysis of a selected contemporary topic in communication. Includes discussion of appropriate communication models and their analytical application to the selected topic. May be repeated a maximum of two times for credit. Department approval required.

COMM 4334 Advanced Law and Ethics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides an evaluation of contemporary media regulations/law and ethical issues by way of case analysis along with the study of the evolution of media regulation for understanding of past, present, and future media performance.

Prerequisite(s): A minimum grade of "C" in COMM 3337.

COMM 5000 Topic in Communications
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Cross Listing(s): COMM 5000G.

COMM 5025 Popular Culture Theory and Criticism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examination of the theoretical and critical approaches to the study of various forms of popular cultural expression such as film, television, popular literature, magazines and music. Critical methodologies present may include semiotics, genre criticism, ethnography, feminism and cultural studies.

Prerequisite(s): A minimum grade of "C" in ENGL 2100.

Cross Listing(s): ENGL 3025.

COMM 5030 Television Theory and Criticism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Critical Examination of various aspects of television, such as genres, social implications, historical significance and modes of production.

Prerequisite(s): Permission of Instructor.

Cross Listing(s): ENGL 5030.

COMM 5035 Selected Topics in Communication
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Subject announced when course offered. Topics vary, such as environmental impacts on communication, transactional analysis theory, nonverbal communication.

Cross Listing(s): COMM 5035G.

COMM 5333 Theories of Mass Communication
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the development of mass media systems and the resulting theoretical perspectives. Encourages theory application as means of understanding and explaining what happens to us individually and as members of a society as mass communication became possible and now as media systems are being adapted.

Prerequisite(s): COMM 2332, and COMS 2330 or PRCA 4330.

Cross Listing(s): COMM 5333G.

COMM 5000G Topics in Communications
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

COMM 5035G Selected Topics in Communication
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Subject announced when course offered. Topics vary, such as environmental impacts on communication, transactional analysis theory, nonverbal communication. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

Cross Listing(s): COMM 5035.

COMM 5333G Theories of Mass Communication
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the development of mass media systems and the resulting theoretical perspectives. Encourages theory application as means of understanding and explaining what happens to us individually and as members of a society as mass communication became possible and now as media systems are being adapted. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): COMM 5333.

COMM 5335G Public Relations Campaigns in Health and Science
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines communication and public relations in health and science campaigns, with a focus on public communication and strategy effectiveness. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

COMM 7100 Research in Communication and Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to the concepts and methods of applied research and theory necessary for professionals in communication and leadership settings. Topics will include survey development, interviews, focus groups, experiments, ethnography, and content analysis. Students will construct a research question, review literature, collect and analyze data, and present the results of their analysis.

Cross Listing(s): LEAD 7100.

COMM 7150 Communication and Leadership in the Public Arena
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examination of the communication and leadership on public issues. Course explores the theories and practices associated with leadership in groups and organizations in the public and private sectors. Focuses on interactive aspects of leading and following, and developing leadership skills from a communication perspective.

Cross Listing(s): LEAD 7150.

COMM 7300 Applied Crisis Communication Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examination of theories relevant to crisis communication management and application of those theories to cases, both actual and hypothetical.

COMM 7400 Health Communication**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Applies various communication theories to the health care community. The impact of health communication in different contextual levels, i.e., interpersonal, group, organizational, mass and cultural will be examined.

COMM 7500 Selected Topics in Communication**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in the field of communication defined by the instructor. May be taught as a colloquium, directed reading, or seminar.

COMS Communication Studies

COMS 5030G Selected Topics in Communication**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Subject announced when course offered. Topics vary, such as environmental impacts on communication, transactional analysis theory, non-verbal communication. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

Cross Listing(s): COMS 5030.**COMS 5330G Communication Theory****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to major approaches in the development of communication theory with emphasis on various communication contexts, e.g.; interpersonal, group, organization, mass media, intercultural. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

Cross Listing(s): COMS 5330.**COMS 5331G Communication and Conflict****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to the theory and practice of conflict management in personal and professional relationships. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

COMS 5332G Nonverbal Communication**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the theories, processes and effects of communication in nonverbal codes. Topics may include kinesics, proxemics and paralanguage. Critical analysis and contemporary research emphasized. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

Cross Listing(s): COMS 5332.**COMS 5333G Communication and Gender****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to the literature of gender and communication. Considers how men's and women's self-perceptions and resulting communication patterns evolve as a function of cultural influences. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): COMS 5333.**COMS 5334G Interpersonal Communication in the Workplace****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Communication theory, research, and applications of various forms of interpersonal communication in the workplace. Topics may include superior-subordinate communication, interviewing, and presentations. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

Cross Listing(s): COMS 5334.**COMS 5335G Family Communication****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of various communication theories within the unique contexts of family dynamics. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

Cross Listing(s): COMS 5335.**COMS 5530G Rhetoric****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Rhetoric from Aristotle to the present, with emphasis on rhetorical analysis of texts and other forms of discourse. Graduate students will have additional readings and research expectations, including, when appropriate, a research presentation.

Cross Listing(s): WRIT 5530G.**COMS 7200 Organizational Communication in Diverse Contexts****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Theories and principles of professional discourse applied toward working effectively in ethnically diverse organizations and in international contexts.

COMS 7300 Professional Communication Presentation Skills**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Development and enhancement of public presentation skills using communication theory as a foundation. Emphasis on speech writing, speech preparation, skill development, audience engagement, critical analysis of public address, and differences between face-to-face and electronically-mediated communication environments.

COMS 7400 Communication Training and Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Prepares students for managing communication training programs in a variety of settings. Public speaking training and development will be a central focus.

COOP Cooperative Education Pro

COOP 6090 Graduate CO-OP**1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

An opportunity to gain work experience related to academic major, begin the career-decision-making process and earn money for educational expenses. This is accomplished through the Cooperative Education program. The co-op program is coordinated by the Office of Career Services. Salaries and benefits are determined by the employer and normally increase as the program proceeds. Board and lodging are the responsibility of the student. A "V" grade is assigned for successful completion of the work assignment.

Prerequisites(s): Graduate Students Only.

COUN Counseling Education

COUN 7231 Foundations of Clinical Mental Health Counseling**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of clinical mental health counseling, to include a survey of theoretical foundations, research and practice, and ethical and legal issues. The topics covered emphasize the role of the clinical mental health counselor, prevention and education, client advocacy, referral practices, consultation, and the adaptation of clinical mental health counseling models in counseling agencies and practices.

COUN 7232 Addictions Counseling**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys aspects of a range of addictions and educates students about the process of addictions, including the skills and strategies needed to provide addictions counseling. The roles that counselors and other professionals serve in the prevention, treatment, and recovery process, along with information on available community resources, are addressed.

Prerequisite(s): Permission from the instructor is required for students not accepted into the COUN program.

COUN 7233 Family Counseling**3 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course examines the family through an ecological lens, to include how clients exist within various systems. Students' awareness of their own family's system will serve as a foundation from which to develop an approach for understanding and working with families. Family counseling techniques for use in a variety of settings will also be emphasized.

Prerequisite(s): A minimum grade of "C" in COUN 7332; Permission from the instructor is required for students not accepted into the COUN program.

COUN 7234 Counseling Psychodiagnosis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the nomenclature and criteria used in the assessment of mental health diagnoses from a mental health and wellness perspective. Students will develop an understanding of the professional identity and role of counselors as it relates to diagnosis and intervention. Students will develop a knowledge base for treatment planning and treatment documentation.

Prerequisite(s): Permission from the instructor is required for students not accepted into the COUN program.

COUN 7235 Short Term Counseling Strategies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an in-depth look at the theory and practice of brief counseling therapies as applied to counseling practice. Students will be presented with models of short term counseling interventions.

Prerequisite(s): Permission from the instructor is required for students not accepted into the COUN program.

COUN 7236 Counseling and Sexuality**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course explores the interaction of biological, sociological, and cultural issues related to sexuality and counseling. This course examines the expression of human sexuality across the life span from a sex positive perspective, attitudes about sexuality, and possible counseling strategies and interventions.

Prerequisite(s): Permission from the instructor is required for students not accepted into the COUN program.

COUN 7332 Theories of Counseling**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores a range of counseling theories, as well as the nature and process of counseling. Provides a foundation from which students can build a personal philosophy of counseling.

COUN 7333 Counseling Skills and Techniques**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on teaching students a variety of basic and advanced counseling skills through role play and other experiential activities.

Prerequisite(s): Permission from the instructor is required for students not accepted into the COUN program.

COUN 7334 Group Counseling and Group Work**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses group development, group dynamics, and group counseling theories through role play and other experiential activities. Group counseling methods and skills used in group work are also addressed.

COUN 7335 Counseling Assessment and Appraisal**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses counseling tests and assessments including cognitive, personal, career, and clinical assessments. Students learn about test selection, administration, and interpretation from experiential activities.

Prerequisite(s): Permission from the instructor is required for students not accepted into the COUN program.

COUN 7336 Career Counseling**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the world of work from a counseling perspective. Students learn to facilitate career development based on knowledge of career theories, career assessments and strategies, and career-related resources.

COUN 7337 Multicultural Counseling**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses multicultural counseling models and fosters counseling skill development using a social justice and advocacy framework. Emphasis is placed on expanding self-awareness, knowledge, and skill development using experiential activities.

Prerequisite(s): A minimum grade of "B" in COUN 7333; Permission from the instructor is required for students not accepted into the COUN program.

COUN 7338 Lifespan Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses developmental theory and processes throughout the lifespan. Physical, cognitive, and social/emotional dimensions of human development are explored through a wellness, strengths-based lens.

COUN 7437 School Counseling Program Coordination and Curriculum**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the organization of comprehensive, developmental school counseling programs in the elementary, middle and high schools, as well as the design and implementation of the school counseling curriculum for grades P-12. The counselor's role as program coordinator focuses upon needs assessments, curriculum planning and implementation, time and resource management, public relations, and program evaluation. Ethical and diversity issues are emphasized in designing curricula and delivery strategies to address the developmental needs of all students.

Prerequisite(s): A minimum grade of "C" in COUN 7445.

COUN 7445 Foundations of School Counseling**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course is designed to introduce students to the profession of school counseling and a comprehensive developmental school counseling program. The history and development of the profession, national association, standards for counselor preparation and credentials are examined as well as school counselor roles, functions, and responsibilities. Special attention will be given to students' introduction to school systems through field observations inclusive of the concepts of advocacy and social justice.

COUN 7448 Leadership, Consultation and Intervention in the Schools**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a general framework for understanding and practicing various theories and models of consultation and potential interventions in P-12 systems. Designed to train school counselors how to intervene with children and adolescents presenting with learning disabilities and behavioral and emotional disorders at school, strategies are explored that counselors, teachers, and parents can use to prevent, recognize, and assist students at risk of developing emotional or behavioral barriers to learning connected to abuse, violence, addictions, childhood depression, suicide etc. The role of leadership in school reform as it pertains to the issues and barriers that may affect student development and functioning are explored. This course is designed to be taken concurrently with Internship I as field experience is integral to the course work.

Prerequisite(s): A minimum grade of "C" in COUN 7445 and COUN 7437.

COUN 7737 Counseling Practicum**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course involves the application and critical evaluation of counseling skills in practical settings. Students complete a total of 100 clock hours of supervised clinical experience, with 40 of those hours in direct service work with clients. Individual and group counseling experiences will be audio and/or videotaped, critiqued, and evaluated.

Prerequisite(s): A minimum grade of "B" in COUN 7332 and COUN 7333.

COUN 7738 Counseling Internship I**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course assists students to apply their knowledge and skills to counseling practice. Internship provides extensive, supervised, on-the-job experience in a counseling setting closely aligned with the student's professional career goals. Students are required to successfully complete 600 hours of field experience across Internship I (300 hours) and Internship II (300 hours).

Prerequisite(s): A minimum grade of "B" in COUN 7332, COUN 7333, COUN 7334, and COUN 7737.

COUN 7739 Counseling Internship II**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course assists students to apply their knowledge and skills to counseling practice. Internship provides extensive, supervised, on-the-job experience in a counseling setting closely aligned with the student's professional career goals. Students are required to successfully complete 600 hours of field experience across Internship I (300 hours) and Internship II (300 hours).

Prerequisite(s): A minimum grade of "B" in COUN 7332, COUN 7333, and COUN 7334.

COUN 7890 Directed Individual Study**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Permits specialization beyond regular course content through in-depth study of individually selected topics of interest and importance in higher education student services. The study will be directed by the instructor.

Prerequisite(s): 12 semester hours of course work in the program.

COUN 8533 Professional Practice and Ethics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course informs students of ethical standards, laws, ordinances, and statutes that govern professional behavior of counselors in schools and in community/mental health settings. Students will explore specific topics to include professional practice and ethics involving professional relationships, the impact of values, confidentiality, violations, and licensure laws.

COUN 8536 Counseling Advocacy and Systemic Change in a Diverse Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to provide students with the knowledge about counseling advocacy and social change necessary for creating effective learning practices and environments. Students will acquire an understanding of the social, economic, and political factors which influence and shape the counselor's role in diverse institutional settings such as schools and community agencies. The course examines the role of the counselor as a change agent in eliminating systemic barriers that impede student and client success.

Prerequisite(s): Admission to Ed.S. program or instructor's permission.

COUN 8538 Advanced Group Development and Supervision**3 Credit Hours. 2 Lecture Hours. 1 Lab Hour.**

Emphasis is placed on principles of group leadership and group processes at the theoretical and applied levels. Supervised practice in leading and/or co-leading groups in counseling is included.

Prerequisite(s): A minimum grade of "C" in COUN 7334.

COUN 8590 Selected Topics in Counseling**1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.**

Participants examine selected topics in the areas of school, community, and college counseling. Course focuses on the specialized needs of Professional Counselors in public, school, community agency, and post-secondary educational settings.

COUN 8737 Clinical Counseling Supervision**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Advanced clinical experience in application of supervision theories, tools and techniques in counseling. Includes monitored experience in the supervision of counseling.

Prerequisite(s): Permission of instructor.

COUN 8839 Action Research**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Each student will implement a research study based on the proposal prepared in the field based Educational Research class. The study should be related to a practical problem in a professional practice setting. An oral presentation of the study is required. Students are limited to register for this course twice during the program of study.

COUN 8890 Directed Individual Study**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course permits specialization beyond regular course content through in-depth study of individually selected topics of interest and importance in counselor education. The study will be directed by the instructor.

Prerequisite(s): Permission of advisor.

CRJU Criminal Justice

CRJU 1100 Introduction to Criminal Justice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an introduction and overview of the criminal justice system and its central components: police, courts, and corrections. Topics include: the history, development, and current status of law enforcement, the judiciary, and corrections in the U.S.; the philosophical, economic, and socio-political aspects of the criminal justice system and processes; individual rights and public order; an introduction to the juvenile justice system; theories of crime causation; and special issues such as drugs, mental health and public policy.

CRJU 1210 Introduction to Cybercrime**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History of cyber crime and the examination of techniques and strategies for investigating computer crime.

Prerequisite(s): ENGL 1101.

CRJU 2010 Universal Justice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to human rights as a global construct. Examines competing understandings of human rights and the development of international human rights law. Explores social, political, historical, and philosophical explanations for human rights abuses and manifestations such as crimes against humanity, genocide, and war crimes.

CRJU 2210 Introduction to Policing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Critical examination and assessment of American policing. Major emphases include policing history, functions, organizational structure, policing strategies, effectiveness of practices, and accountability measures.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.

CRJU 2410 Introduction to Corrections**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Correctional process and interventions designed to deter and control adult criminal behavior. Addresses philosophy and goals underlying correctional interventions, types of criminal sentencing, and penal sanctions, including community-based programs, institutional corrections, and parole. Examines intentions and consequences of various methods of institutional and non-institutional processing and treatment of convicted offenders.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3110 Legal Process****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce students to the American court system with a focus on the sources of law and the actors, institutions, and processes that affect the administration of justice.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3120 Ethics in Criminal Justice****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an overview of ethical theories and understandings of justice in the context of contemporary issues related to the criminal justice system. Students practice identifying ethical dilemmas and applying major ethical systems to resolve dilemmas and evaluate decision-making in law enforcement, the judiciary, and the correctional system.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in CRJU 1100.**CRJU 3131 Criminal Law****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the social and political influences on criminal law in the United States. Analyzes the constitutional limits on criminal law, principles of criminal liability, elements of crimes, criminal defenses, and the application of the Georgia Criminal Code to specific crimes.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3133 Evidence and Procedure****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the legal processes from arrest through appeal, with emphasis on the rights of the accused including due process, right to counsel, search and seizure, self-incrimination, and the rules of evidence governing criminal procedure.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3134 Investigations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to fundamentals of conducting investigations. Topics include: evidence gathering, interviews and interrogations, court preparation and testimony, and written reports.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3150 Organized Crime****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Examination of phenomenon of racketeering in society from a variety of perspectives, using historical, theoretical, and comparative materials. Analysis of the nature of the activities of organized criminals, the relationship between these criminals and the public, the structure of racketeering groups and enterprises, and the strategies and success of legal control on organized crime. Special attention paid to the ways in which these crimes can be differentiated from "common" street crimes.

Prerequisite(s): CRJU 1010.**CRJU 3160 Corporate Crime****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the laws, law enforcement, victimization, and cost of corporate, white collar and occupational crime.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3170 Criminal Justice Administration****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survey of basic concepts and principles concerned with the administration and management of agencies within the criminal justice system. Emphasis will be placed on organizational structure, functions, standard operating procedures, leadership, and the role of discretion.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3233 Criminology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the nature and extent of crime in the U.S. Evaluates factors leading to criminal behavior drawing on major criminological theories and research, as well as measures proposed to control crime.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3234 Research Methods****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an overview of research methods and techniques in criminal justice and criminology, to include research design, analytical techniques, ethical issues in research, and relationships between theory, research, and practice. Particular topics include the nature of conceptualization, hypothesis testing, measurement, operationalization, and sampling populations to provide students with conceptual and practical foundations to develop research and program evaluation skills.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3263 Cyber Criminology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Assesses the usefulness of classic criminological theories to explain a wide range of cybercrimes and the possible need for the creation of new cyber-related criminological theories.

CRJU 3264 Hackers, Malware, and Online Economic Crime**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines cybercrimes committed by hackers and/or computer criminals that are often influenced by either curiosity or financial motivation. Topics include, but are not limited to: the subculture of computer hackers, the role of malicious software in computer intrusions, and different forms of online economic fraud.

CRJU 3265 Online Violence**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines technology-enabled crimes in which violence is threatened or exerted against individuals, vulnerable groups, or society as a whole. Topics include, but are not limited to: cyber harassment and stalking, pornography, child sexual exploitation, and cyber terrorism.

CRJU 3345 Comparative Justice Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the institutions of justice in various countries around the world, as well as the variety of international institutions that address questions of justice. The historical development, legal, socio-political, economic, and philosophical factors underlying these institutions are examined, with an emphasis on comparison with the U.S. system of criminal justice.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3420 Applying Elementary Statistics in Justice and Crime Research****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students learn about and practice using elementary statistics with a focus on crime and criminal justice data and usage. Focuses on linking levels of measurement, inference, questions posed, and data limitations in statistical usage. Students will compute and interpret statistics.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.

CRJU 3431 Juvenile Justice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an overview of the juvenile justice system and juvenile jurisprudence. Examines the development of the juvenile justice system and treatment of juveniles in civil and criminal justice systems. Additional topics include examination of theoretical frameworks and correlates of juvenile delinquency as well as strategies aimed at reducing and preventing delinquency.

Prerequisite(s): A minimum grade of "C" CRJU 1100.**CRJU 3432 Gangs and Society****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the historical development and contemporary influence of gangs as well as their criminal and noncriminal activities. Emphasis is placed on myths associated with gangs, individual and structural forces influencing juveniles to join gangs, differentiating gangs from other organized criminal groups, how gangs fit into society as a whole, the impact of gangs on the criminal justice system, and the effectiveness of policies and initiatives aimed at reducing gang activity.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3531 Victimology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the causes, consequences, and theoretical explanations of victimization. Major emphases on victimization patterns, risk factors, the victim-offender relationship, range of injuries experienced, and the role of the victim in criminal justice proceedings.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3534 Drugs and Society****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to the scholarly study of drugs and alcohol from a multidisciplinary, liberal arts perspective. Students will become familiar with drug discourse, history, and policy with particular emphases on the legal prohibitions and enforcement of drugs in American society.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3535 Family Violence****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an examination of family violence with specific focus on child abuse, intimate partner violence, and elder abuse. Attention centers on the nature, prevalence, causes, consequences, as well as on responses by social service agencies and the criminal justice system for each form of violence occurring within the family.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3536 School Violence****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an examination of school violence, focusing on the school as the location for various forms of victimization of students, teachers, and school administrators. Specifically, the course will focus on several forms of school violence including bullying and school shootings. Theoretical explanations, administrative, and criminal justice responses to the various forms of school violence, and the consequences of these responses, will be examined.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3538 Gender, Crime, and Justice****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Critical examination of gender as a significant, yet overlooked, dimension of criminality to include the nature and extent of women as victims, offenders, and workers in the criminal justice system. Causes of crime and victimization, gender disparities in processing/punishing female offenders, treatment of female offenders in the community, responses to female victimization, and ways to reduce both crime and victimization will be examined, while promoting justice by recognizing the important role of gender and the intersection of gender and other social inequalities.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 3631 Crime and Justice in Public Policy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the intersection of crime and social justice in the policy process. Particular attention paid to the development of public policy, actors in the process, and the impact of public policy on society, social programs, and the criminal justice system.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3732 Conflict Resolution****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the causes of conflict and techniques to resolve conflict in the criminal justice system. Studies conflict among colleagues, the public, and with clients in the criminal justice field are a focus, as well as how criminal justice agencies (police, courts, and corrections) resolve conflict. Special emphases on collaborative resolutions, restorative justice/peace making, community policing, mediation, arbitration, and development of interpersonal communication skills within and between agencies.

Prerequisite(s): A minimum grade or "C" or better in CRJU 1100.**CRJU 3733 Inequalities, Crime, and Justice****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces forms of social stratification and inequalities and their intersection crime and justice. Attention is given to race, class, and gender inequalities within the United States criminal justice system and the paths into contemporary inequality. The impacts of the extent, causes, and generation of institutionalized inequalities on criminal justice processes, victimization, and system employment are explored.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3792 Criminal Justice Internship (Non-Capstone)****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides students an opportunity to work in a supervised setting to bridge academics with practical experiences. Students submit journal entries and other writing assignments in addition to professional duties required by their interning agency. Enrollment requires permission of the internship coordinator. This internship option is designed for students with under 90 hours of coursework and/or lacking the CRJU courses necessary for approved enrollment in the capstone option, CRJU 4792: Internship in Justice Studies.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3831 Popular Culture and Justice****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines portrayals of crime, justice, social stratification, the criminal justice system, as well as social and political responses to those issues, in television, film, and literature.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 3931 Issues in Homeland Security****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the legal, practical, and ethical challenges that accompany efforts to secure the homeland against major twenty-first threats such as terrorism and cyber-terrorism. Course topics may include but not be limited to: threat assessment, crisis response, incident prevention, and the need to reconcile governmental strategies for disrupting attacks on the homeland with the imperative of protecting civil liberties.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 4031 Community-Based Supervision and Treatment****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines alternatives to incarceration and methods of treatment in non-institutional settings. Focus is on supervising criminal offenders in the community and theories/techniques employed to influence and alter attitudes, values, and behavior.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.

CRJU 4092 Special Topics in Criminology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Periodically scheduled to allow exploration of contemporary substantive topics related to criminology and crime that are not offered in the regular curriculum. Topics will be announced when the course is scheduled. Repeatable if topic is substantially different.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 4093 Special Topics in Criminal Justice****1-3 Credit Hours. 0-18 Lecture Hours. 0-18 Lab Hours.**

Periodically offered to facilitate exploration of contemporary topics related to law enforcement, courts, corrections, or justice administration not offered in the regular curriculum. Topics will be announced when the course is scheduled. Repeatable if topic is substantially different.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 4135 Directed Study in Criminal Justice and Criminology****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Offers opportunity for individualized, structured examination of a specific topic. Student and instructor mutually agree upon topic and required output. Requires approval of instructor and department chair. Repeatable if topic is substantively different.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 4137 Law, Justice, and Society****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the historical and philosophical underpinnings of the legal system and analyzes the interrelationships of law, custom, morality, politics, economics, and social change.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 4532 Organized Crime in a Global Society****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of organized crime in a global context. Examples include but are not limited to: human, arms, and drug trafficking; racketeering; money laundering; environmental crime; and intellectual property crime. Governmental, legal, and institutional responses to the international crimes are also examined.

Prerequisite(s): A minimum grade of "C" or better in CRJU 1100.**CRJU 4639 Inside-Out****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The "Inside-Out" Prison Exchange Program is an opportunity for a small group of students from Georgia Southern University and residents from a local prison to exchange ideas and perceptions about crime and justice, the criminal justice system, corrections, and imprisonment. All participants will gain a deeper understanding of the criminal justice system through the combination of theoretical knowledge and practical experience achieved by weekly meetings extended throughout the semester. Departmental and instructor approval is required before enrolling. Strong preference will be given to seniors. The course is repeatable if the topic is substantively different.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 4792 Internship in Justice Studies****1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides students an opportunity to work in a supervised setting to bridge academics with practical experiences. Students submit a substantial research paper and/or other writing assignments in addition to professional duties required by their interning agency. Enrollment requires permission of the internship coordinator. To meet Area G requirements, students must have senior status. Students enrolling prior to their senior year will be awarded credit toward their upper division criminal justice and/or general elective requirements. (Repeatable.)

CRJU 4910 Senior Seminar CRJU & Criminology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A discussion-based, intensive reading and writing capstone course for criminal justice and criminology majors and minors. Integrates material from the major core courses to critically examine past, current and future developments in the administration of justice. In addition, this seminar will help students explore and prepare for a career in criminal justice. It is strongly suggested students complete BOTH Criminology and Research Methods prior to registering for Senior Seminar.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**CRJU 5003 Cyber Forensics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of computer investigation and analysis techniques to gather evidence suitable for presentation in a court of law. Techniques of cybercrime scene analysis, media analysis, and the use of various forensic tools. Students cannot receive credit for both CRJU 5003 and CRJU 5010.

Cross Listing(s): CRJU 5003G.**CRJU 5010 Applied Digital Forensics I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Identification, capture, and recording of evidence from suspect and victim's computer hard drives and laptops. Students cannot receive credit for both CRJU 5003 and CRJU 5010.

Prerequisite(s): CRJU 1100.**Cross Listing(s):** CRJU 5010G.**CRJU 5020 Applied Digital Forensics II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Expansion of the identification, capture, and recording of evidence from suspect and victim's mobile devices such as mobile phones, tablets, and PDAs. Graduate students are required to complete an additional substantive research paper, presentation, or project based on course objectives.

Prerequisite(s): A minimum grade of "C" in CRJU 5010.**Cross Listing(s):** CRJU 5020G.**CRJU 5060 Special Topics in Cybercrime****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines substantive topics, problems, and issues of importance to contemporary study of cybercrime. Topics announced when course is scheduled. Course may be repeated if substantially different.

Cross Listing(s): CRJU 5060G.**CRJU 5101 Global Cybersecurity****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth study of cybersecurity from a global perspective, including cyberterrorism, cybercrime, and cyberwarfare. This course will address domestic and international cybersecurity policies such as those relating to how justice systems respond to these acts through cross-border cooperation between intelligence and law enforcement agencies. Other topics include analyzing the role of nation-states in the proliferation of cyber attacks as a force multiplier; region-specific norms addressing privacy and intellectual property; and the international system including cyber conflicts, threats to security, and non-state actors.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**Cross Listing(s):** CRJU 5101G, POLS 5101, POLS 5101G.**CRJU 5105 Homeland Security****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of homeland security in the context of twenty-first century threats such as terrorism and cyber-terrorism. Students will analyze the political, operational, tactical, and environmental factors considered in the creation and administration of homeland security policy. Particular attention will be given to the coordination of federal, state, and local agencies responsible for the prevention of and response to acts of terrorism.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**Cross Listing(s):** CRJU 5105G, POLS 5105, POLS 5105G.

CRJU 5003G Cyber Forensics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of computer investigation and analysis techniques to gather evidence suitable for presentation in a court of law. Techniques of cybercrime scene analysis, media analysis, and the use of various forensic tools. Graduate students are required to complete an additional substantive research paper or project based on course objectives. This course serves as a content area for Cybercrime. Students cannot receive credit for both CRJU 5003G and CRJU 5010G.

Cross Listing(s): CRJU 5003.**CRJU 5010G Applied Digital Forensics I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Identification, capture, and recording of evidence from suspect and victim's computer hard drives and laptops. Graduate students are required to complete an additional substantive research paper, project, or presentation based on course objectives. This course serves as a content area for Cybercrime. Students cannot receive credit for both CRJU 5003G and CRJU 5010G.

Cross Listing(s): CRJU 5010.**CRJU 5020G Applied Digital Forensics II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Expansion of the identification, capture, and recording of evidence from suspect and victim's mobile devices such as mobile phones, tablets, and PDAs. Graduate students are required to complete an additional substantive research paper, presentation, or project based on course objectives. This course serves as a content area for Cybercrime.

Prerequisite(s): A minimum grade of C in CRJU 5010G.**Cross Listing(s):** CRJU 5020.**CRJU 5060G Special Topics in Cybercrime****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines substantive topics, problems, and issues of importance to contemporary study of cybercrime. Topics announced when course is scheduled. Course may be repeated if substantially different. Graduate students are required to complete an additional research paper or project based on course objectives. This course serves as a content area for Cybercrime.

Cross Listing(s): CRJU 5060.**CRJU 5101G Global Cybersecurity****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth study of cybersecurity from a global perspective, including cyberterrorism, cybercrime, and cyberwarfare. This course will address domestic and international cybersecurity policies such as those relating to how justice systems respond to these acts through cross-border cooperation between intelligence and law enforcement agencies. Other topics include analyzing the role of nation-states in the proliferation of cyber attacks as a force multiplier; region-specific norms addressing privacy and intellectual property; and the international system including cyber conflicts, threats to security, and non-state actors. Graduate students will complete an additional substantive research paper, project, or presentation based on course objectives.

Prerequisite(s): A minimum grade of "C" in CRJU 1100.**Cross Listing(s):** CRJU 5101, POLS 5101, POLS 5101G.**CRJU 5105G Homeland Security****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of homeland security in the context of twenty-first century threats such as terrorism and cyber-terrorism. Students will analyze the political, operational, tactical, and environmental factors considered in the creation and administration of homeland security policy. Particular attention will be given to the coordination of federal, state, and local agencies responsible for the prevention of and response to acts of terrorism. Graduate students will complete an additional substantive research paper, project, or presentation based on course objectives.

Cross Listing(s): CRJU 5105, POLS 5105, POLS 5105G.**CRJU 5360G Hackers, Malware, and Online Economic Crime****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines cybercrimes that are often influenced by either curiosity or financial motivation. Topics include, but are not limited to, the subculture of computer hackers, the role of malicious software in computer intrusions, and different types of online economic fraud. Graduate students are required to complete an additional substantive research paper or project based on course objectives. This course serves as a content area for Cybercrime.

Cross Listing(s): CRJU 5360.**CRJU 6060 Current Issues in Cybercrime****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines current cybercrime issues in the news, such as data breaches and recent computer intrusion. Graduated students are required to complete an additional substantive research paper or project. This course serves as a content area for Cybercrime.

CRJU 6080 Seminar in Transnational Crime**3 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Special topics concerning illegal activities of international criminal organizations and the effect of transnational crime on the economic and socio-political environment in countries across the globe. Explores linkages between various crime groups, role of government corruption, and terrorism. Specific topics will be specified upon offering. Course may be repeated when topic is different.

CRJU 6801 Proseminar in Ethics and Criminal Justice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to current research and critical issues in the administration of justice and criminological theory. Includes discussions of ethics and professional development for the field.

CRJU 6811 Criminal Justice Systems: Policy and Process**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the policies and processes that occur within the criminal justice system as well as the decision-making of the system's actors (i.e., discretion). Emphasizes on policies and processes in law enforcement, courts, and corrections. Attention is also given to the broader impacts of these policies and processes on society at-large.

CRJU 7080 Seminar in Victimization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores special topics in victimization, placing attention on historical contexts, forms, theoretical frameworks, and victim-offender overlap. May focus on specific type or particular context of victimization. Specific topics will be specified upon offering. Course may be repeated when topic is different.

CRJU 7090 Topics in Violence and Crime**3 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

In-depth analysis of selected topics on violence and crime. Analysis may include, but is not limited to, examination of nature, prevalence, causes and consequences of violence. Specific topics will be identified upon offering of course. Courses may be repeated when topic is different.

CRJU 7434 Quantitative Research Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the study of the role of theory, research design, sampling, measurement and instrumentation, data collection, and ethical issues related to social scientific research.

CRJU 7436 Qualitative Research Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the analysis and practice of qualitative methodology in social science. Topics may include participant observation, ethnographic methods, interviews, case studies, content analysis, archival research and other innovative techniques.

CRJU 7437 Statistics for Social Science**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the techniques and statistics necessary to design and interpret quantitative social scientific research.

CRJU 7631 Criminological Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines major theoretical perspectives in classical and contemporary criminology, including but not limited to: control, learning, strain, labeling, rational choice, conflict and theoretical integration. The socio-political and historical context in which these theories were developed is also considered.

CRJU 7632 Seminar in Criminal Justice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores a selected topic in criminal justice of interest to groups of students, including, but not limited to policing, corrections, courts, or the law, which are relevant to their course of specialization in the graduate curricula of the University. Course may be repeated when topic is different.

CRJU 7633 Seminar in Criminology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the exploration of a selected topic in criminology of interest to groups of students which are relevant to their course of specialization in the graduate curricula of the University. Course may be repeated when topic is different.

CRJU 7634 Victims & Victimization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an in-depth review of victimology through examination of empirical research and policies relating information on theoretical perspectives, the diversity of victimization experiences, as well as governmental and non-governmental responses to victimization. Specific attention is placed on experiences of victims with law enforcement, courts, corrections, and victim service agencies and organizations.

CRJU 7635 Social Inequalities, Crime, and Justice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students with an overview and impact of the multifaceted nature of inequalities in the criminal justice system with emphases on race, sex, class, and other societal inequalities. Attention is placed at both the individual and systemic levels.

CRJU 7661 Hacker Subculture**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an in-depth examination of the hacker subculture, including its origins and evolution over time regarding its norms, beliefs, rationalizations, and relationship with newer forms of technology. This course serves as a content area for Cybercrime.

CRJU 7662 Online Economic Crime**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In-depth analysis of financially-motivated online crimes. Examination may include, but not be limited to: data breaches, different forms of online scams, impact of online fraud on victims, and law enforcement challenges in investigating these crimes. This course serves as a content area for Cybercrime.

CRJU 7663 Interpersonal Online Violence**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides in-depth examination of technology-enabled interpersonal forms of crimes and deviance that threaten or exert violence against individuals and/or groups of people. This course serves as a content area for Cybercrime.

CRJU 7822 Seminar in Law Enforcement**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In-depth analysis of selected topics in the enforcement of laws in a system of ordered liberty. Course may be repeated when topic is different.

CRJU 7842 Seminar on Issues in Justice Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analysis of the unique contexts of management in the justice system and specific agency types. Emphasizes experiences and dilemmas of individuals working in these organizations, as well as organizational standards and guiding principles of professionalism. Course may be repeated when topic is different.

CRJU 7843 Special Topics in Corrections and Offender Supervision**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In-depth analysis of selected topics in corrections within a larger system of ordered liberty. Course may be repeated when topic is different.

CRJU 7853 Seminar in Law Courts**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In-depth analysis of selected topics in the role and operation of law and courts in a system of ordered liberty. Course may be repeated when topic is different.

CRJU 7864 Legal Aspects of Cybercrime**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of laws related to computers, cell phones, other electronic devices, and the internet. Evaluation of computer misuse crimes, traditional crimes committed using computers, punishment and sentencing issues, Fourth Amendment issues, jurisdiction at state and federal levels, international computer crime, and national security. This course serves as a content area for Cybercrime.

CRJU 7865 First Responder Tools and Applications**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines basic computer forensic tools and applications including seizure, imaging and analysis of computer media with reference to computer hard drive and forms of storage. This course serves as a content area for Cybercrime.

CRJU 7866 Readings in Cybercrime**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of the foundational works in cybercrime with a focus on the hacker ethic. This course serves as a content area for Cybercrime.

CRJU 7867 Cyber Ethics and Internet Culture**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of ethical theory to 21st century issues, such as music piracy, cyber warfare, and cyber stalking. This course serves as a content area for Cybercrime.

CRJU 7868 Cyber Criminology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Assessment of the usefulness of traditional criminological theories to explain cybercrime, new theories created to better explain cybercrime and measures to control such crimes. This course serves as a content area for Cybercrime.

CRJU 7880 Practicum I**1-6 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.**

Educational placement designed for research observation and practical experience in a select criminal justice agency. May be used to satisfy Cybercrime Track or Certificate with permission of Advisor and instructor.

CRJU 7891 Independent Study**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is an independent examination of graduate course topics offered in the criminal justice and criminology curriculum of the Department of Criminal Justice and Criminology following guidelines of the College of Graduate Studies.

CRJU 7892 Directed Research**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course requires participation in an independent or group research project. More than three hours of credit for directed research may be earned, but only three hours may be applied to the completion of minimum hours required for the M.S. Degree with a major in Criminal Justice and Criminology.

CRJU 7999 Thesis**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Critical and analytical research thesis examining approved criminal justice or criminology topic is produced.

CRJU 8830 Seminar in Juvenile Justice
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Assessment of policies and practices of agencies processing youthful offenders. Addresses current issues and trends impacting juvenile delinquency and crime and system responses. Specific topic will be identified upon offering. Course may be repeated when topic is different.

CSCI Computer Science

CSCI 5090G Selected Topics in Computer Science
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Specialized study in a selected area of Computer Science. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Permission of Instructor.

Cross Listing(s): CSCI 5090.

CSCI 5130G Data Management for Math and the Sciences
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics in data management, including operating systems, word processing, spreadsheets, and database management and their applications to mathematics education. Intended primarily for those majoring in Mathematics and Mathematics Education. For those majoring or minoring in Computer Science, this course may not be used as an upper level Computer Science elective. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): CSCI 1230 or Permission of Instructor.

Cross Listing(s): CSCI 5130.

CSCI 5230G Discrete Simulation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to discrete simulation models and their implementation on computers. Topics include modeling techniques, experiment design, analysis and validation of results. Students will be exposed to one or more computer simulation languages. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 3230 and STAT 1401 or Permission of Instructor.

Cross Listing(s): CSCI 5130.

CSCI 5322G Advanced Software Engineering
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Advanced software engineering principles, including software processes and methodologies, CASE tools, software metrics, software quality assurance, reusability and reengineering, and future trends. Major project encompassing some or all of these concepts. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CSCI 4322.

Cross Listing(s): CSCI 5322.

CSCI 5325G Senior Design I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The Senior Design experience is a two semester capstone course in which students experience the entire design process of a project. Students work as teams on pre-approved projects, under the direction of faculty and / or external clients, and deliver design reviews, a final report, a formal presentation, and a demonstration of the project. Students learn not only design methodology, but also non-technical aspects of engineering. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CSCI 5322.

Cross Listing(s): CSCI 5325.

CSCI 5326G Senior Design II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The Senior Design experience is a two semester capstone course in which students experience the entire design process of a project. This course is the second in the sequence. Students work as teams on pre-approved projects, under the direction of faculty and / or external clients, and deliver design reviews, a final report, a formal presentation, and a demonstration of the project. Students learn not only design methodology, but also non-technical aspects of engineering. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in CSCI 5325.

Cross Listing(s): CSCI 5326.

CSCI 5331G Computer Architecture
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will focus on the following topics: Computer Organization (RISC, CISC architecture), Assembly Language Programming, Processor, Memory and I/O Architecture, Parallel Architectures. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 3231 or CSCI 3341.

Cross Listing(s): CSCI 5331.

CSCI 5332G Data Communications and Networking
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Fundamental concepts of data communications including architecture models, protocol suites, network programming, signal and data transmissions, error detection, and performance analysis. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in (CSCI 3232 or CSCI 3341) and CSCI 5331 and STAT 1401.

Cross Listing(s): CSCI 5332.

CSCI 5335G Object-Oriented Design
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to concepts, methods, and current practice of object oriented design and analysis. Topics include the study of the Unified Modeling Language (UML), which has become an industry standard notation. UML topics will include use cases, diagramming notation (class, object, sequence) and object state diagrams. Students will use UML to design and implement individual and small group projects. Additional topics include understanding design patterns in building applications. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 3230.

Cross Listing(s): CSCI 5335.

CSCI 5430G Artificial Intelligence**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to different paradigms for creating software that can reason, access a knowledge base, handle uncertainty, learn, communicate, perceive and act. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 3230 and CSCI 5330 or Permission of Instructor.

Cross Listing(s): CSCI 5430.

CSCI 5431G Computer Security**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Computer security theory and practice fundamentals including methods of attack, defending against attacks, privacy vs security, methods of encryption, authentication, writing secure code, web security, and network security. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 2120 and prior or concurrent enrollment in CSCI 5332.

Cross Listing(s): CSCI 5431.

CSCI 5436G Distributed Web Systems Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course involves programming methodologies for the World Wide Web. Topics include: Client-side programming, distributed transactions, remote procedure calls, component objects, server side programming and network load balancing. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): CSCI 5436.

CSCI 5437G Computer Graphics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course covers fundamentals of the theory of computer graphics, including raster systems, 3D viewing, illumination, shading and solid modeling. A standard computer graphics language is introduced. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): CSCI 5437.

CSCI 5438G Animation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course covers mechanism of computer animation and their implementation in OpenGL, together with advanced graph theory. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 5437G.

Cross Listing(s): CSCI 5438.

CSCI 5530G Software Engineering**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course serves as a major integrative, capstone experience for students and requires teamwork. A study of the development and management of software; strategies and techniques of design, testing, documentation and maintenance. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 5335 and CSCI 5330 or Permission of Instructor.

Cross Listing(s): CSCI 5530.

CSCI 5531G Systems and Software Assurance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course presents a body of knowledge in systems and software assurance and evaluation including security, safety, and integrity analysis. The core part of the course is software assurance where students are exposed to code and architectural analysis, secure coding practices, standards, and tools. The course also explores standards in modeling internal security at the organizational level and will involve students in risk assessments, comprehensive assurance planning, as well as an array of countermeasure considerations. Graduate students will be required to complete an individual research project not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in CSCI 1302 and CSCI 3432 or CSCI 5431G or permission of instructor.

Cross Listing(s): CSCI 5531.

CSCI 5532G Network Management Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Theory and practice of network management systems architectures and protocols, including fundamentals of standards models, languages, SNMP, broadband and Web-based tools and applications. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 5332G.

Cross Listing(s): CSCI 5532.

CSCI 5535G Data Mining**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of data mining functionalities including characterization and discrimination, classification and prediction, cluster analysis, association analysis, outlier analysis, evolution analysis; data mining system architectures; data mining query languages; and OLAP technology for data mining. Multiple projects encompassing a number of the discussed concepts. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor and graded using a rubric assessment tool.

Cross Listing(s): CSCI 5535.

CSCI 5538G Wireless and Mobile Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course deals with the basics of cellular and mobile communication systems, multiple radio access procedures and channel allocation techniques, the architecture and functioning of satellite systems including global positioning system different wireless LAN technologies and personal area networks with an emphasis on Bluetooth networks and mobile application development required for mobile and wireless handheld devices like PDAs and cell phones. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in CSCI 5332G or Permission of Instructor.

Cross Listing(s): CSCI 5538.

CSCI 6101 Object-Oriented Programming Using Java**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Provides an essential understanding of programming and problem solving with an emphasis on structured, top-down development and testing, object-oriented programming, and GUI programming. Topics include: variables, data types, expressions, operators, selection statements, loops, methods, arrays, classes and objects, UML, encapsulation, inheritance, polymorphism, interfaces, exception handling, GUI programming, and I/O.

CSCI 6102 Data Analytics Using Python**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers the topics from basic Python programming and to exploring many different types of data. The basic Python programming includes: loops, functions, lists, tuples, sets, dictionaries, classes and objects, inheritance, polymorphism, exception handling, I/O, and Python SQL. The topics on data analytics include: importing datasets, cleaning the data, data frame manipulation, summarizing the data, building machine learning regression models, and building data pipelines.

Prerequisite(s): Permission of the department.**CSCI 6103 Art of Program Design****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Inspired by Donald Knuth's classic book "The Art of Computer Programming", the course focuses on designing and implementing efficient programs using appropriate data structures and algorithms. Topics include: recursion, generics, lists, stacks, queues, hash tables, trees, heaps, various sorting algorithms, and time and space complexity analysis.

Prerequisite(s): A minimum grade of "C" in CSCI 6101.**CSCI 7090 Selected Topics in Computer Science****1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

Specialized study in a selected area of Computer Science.

Prerequisite(s): Permission of Instructor.**CSCI 7130 Artificial Intelligence - Theory and Application****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the fundamental theory for research, design, and development of artificial intelligence systems. Emphasizes state space search, computer gaming, logic, and knowledge representation. Topics include expert systems, natural language understanding, planning, machine learning and decision making with a view toward applications. Students develop a working system in a realistic application domain.

Prerequisite(s): A minimum grade of "B" in CSCI 3230 and CSCI 3232 or Permission of Instructor.**CSCI 7132 Database Systems Design-Theory and Application****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Effective design and application of complex Database Systems, involving both traditional relational databases, object-relational databases, advanced rules and constraints, advanced SQL programming, data model validation, ontology based data modeling, contemporary semi-structured data modeling with XML Schema, and advances in SQL, XML, XML Schema, XQuery, and Data Modeling standardization. Review of advances in DB research and DB technology trends. Students will also act as practicing advisors to other students working on DB design projects.

Prerequisite(s): A minimum grade of "B" in CSCI 3230 and CSCI 3232 or Permission of Instructor.**CSCI 7136 Distributed Web Systems Design - Theory and Application****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Client and server side programming, stateless client/server transactions, state maintenance, server side database transactions, Web project design methodologies, database design methodologies for distributed Web projects, testing methodologies, and Web systems project management concepts.

Prerequisite(s): A minimum grade of "B" in CSCI 7132 or Permission of Instructor.**CSCI 7140 Software Development and Machine Architecture****4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Software and hardware topics that include an object oriented language, web page construction, electric circuits, architecture, language translation, operating system, and networks. This course is primarily intended for those that are beginning a Masters Degree in Technology. This course cannot be taken for credit by those earning a Masters in Mathematics.

Prerequisite(s): Enrollment in the Master of Science in Appliance Engineering degree program or permission of instructor.**CSCI 7230 Advanced Computer Architecture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Comparing different modern computer systems architecture and investigating their performances. Topics include: parallel computer systems, pipelining techniques, vector processor arrays, multiprocessor systems, data flow machines and fault-tolerant computer systems.

Prerequisite(s): CSCI 5331 or Permission of Instructor.**CSCI 7332 Parallel Algorithms Design and Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of parallel constructs for providing experiences in designing and analyzing parallel algorithms.

Prerequisite(s): A minimum grade of "C" in CSCI 5332 or Permission of Instructor.**CSCI 7334 Unix Network Programming****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of UNIX interprocess communication protocols and how they can be used in programs.

Prerequisite(s): A minimum grade of "C" in CSCI 3232 or Permission of Instructor.**CSCI 7335 Image Processing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In depth study of digital image fundamentals and digital image processing including, image enhancing techniques in both spatial and frequency domains; image restoration, compression, and segmentation; representation, description, and object recognition; color and morphological image processing.

Prerequisite(s): A minimum grade of "C" in CSCI 7434 or permission of instructor.**CSCI 7336 Broadband Communications****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth study of the structures and principles of broadband networks. Major concepts and principles are explained along with their mathematical analysis.

Prerequisite(s): A minimum grade of "B" in CSCI 5332 and a minimum grade of "C" in STAT 1401 or Permission of Instructor.**CSCI 7337 Optical Networks****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to optical networks, their principles and systems, an understanding of the construction and organization of optical networks along with an in-depth study of the structures and requirements of lightwave-coherent systems. Major concepts and principles are covered along with their mathematical analysis.

Prerequisite(s): A minimum grade of "B" in CSCI 5332 and a minimum grade of "C" in STAT 1401 or Permission of Instructor.**CSCI 7371 Advanced Human Computer Interaction****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Paradigms in modern user interface design and related human factors. Topics include: user-system compatibility analysis, techniques for user interface design, methods for interface analysis, multimodal interaction and interaction analysis.

Prerequisite(s): Permission of Department Chair.**CSCI 7380 Software Security and Secure Coding****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers methodological framework for identifying common programming errors that result in software vulnerabilities, understanding how these errors are exploited by attackers, and how to implement solutions in a secure fashion. Topics include concurrency and vulnerabilities that result from deadlock, race conditions, invalid memory access sequences, and vulnerabilities associated with file I/O and time of use (TOCTOU).

Prerequisite(s): Permission of Instructor.

CSCI 7431 Distributed Database Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of distributed database architectures and system design, semantic data control, query processing, transaction management, concurrency control, distributed DBMS reliability, parallel DB systems, distributed object DB management systems, and database interoperability.

Prerequisite(s): A minimum grade of "B" in CSCI 7132 and CSCI 7136 or Permission of Instructor.

CSCI 7432 Algorithm Analysis and Data Structures**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced topics in algorithm design and analysis and data structures for implementing these algorithms. Problems considered from areas of information storage and retrieval, graph theory, cryptology and parallel processing.

Prerequisite(s): A minimum grade of "C" in CSCI 5330 or Permission of Instructor.

CSCI 7433 Data and Database Security**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers data protection approaches and mechanisms applicable for digital data in formatted data storage systems including Databases and Data Warehouses. Topics to be covered include: Data Security, View Security, Privacy and Statistical DB Security, DW Security, and Relevant Standards/Guidelines.

Prerequisite(s): A minimum grade of "B" in CSCI 7132 or permission of instructor.

CSCI 7434 Data Mining**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The application of concepts and techniques from information science, statistics, visualization, artificial intelligence, and machine learning for the purpose of extracting, integrating, and visualizing information and knowledge from large databases.

Prerequisite(s): A minimum grade of "B" in CSCI 7130 and CSCI 7132 or Permission of Instructor.

CSCI 7435 Data Warehousing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Data warehouse design principles and technical problems inherent in complex industrial implementations using commercial software. Possible topics include: an introduction to data warehousing, multidimensional data modeling, data warehouse architectures, data warehouse design and implementations, development of data cube technology, organizing data warehousing projects, from data warehousing to data mining.

Prerequisite(s): A minimum grade of "B" in CSCI 7132 or Permission of Instructor.

CSCI 7436 Internet Programming**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced design and implementations of large-scale Internet applications through the use of high and low level programming constructs. Possible topics include: client side scripting languages, middle-tier programming languages, middle-tier transaction servers, server-side data access, server-side scripting/programming, integrating applications within a network cluster, internet protocols and socket programming.

Prerequisite(s): A minimum grade of "C" in CSCI 5332 and CSCI 3432 or Permission of Instructor.

CSCI 7437 Ethics and Research in CS**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the fundamentals of research methods, computer ethics and technical writing as it generally may apply in the Computer Sciences and specifically in broad area of cyber security.

CSCI 7501 Computational Intelligence**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In-depth study of neural networks, soft computing, and nature-based systems.

Prerequisite(s): A minimum of "B" in CSCI 7130 or Permission of Instructor.

CSCI 7510 Decision Support Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of deduction and reaction rule-based systems and their applications; discovery of intension, trend, and interest of mass and individuals using internet interactions and social media for decision making.

Prerequisite(s): A minimum grade of "B" in CSCI 7434 or Permission of Instructor.

CSCI 7532 Advanced Software Engineering**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The focus is the rigorous specification, modeling and prototyping of critical software systems/components. Topics selected from formal specification using Z and VDL, specifications using UML with OCL for real-time systems. Structure, dynamic and constraint modeling, constraint/performance [rate monotonic] analysis, concurrency, re-configuration and distribution, prototyping, reuse and integration issues, and component implementation using advanced tools with implementation styles such as Generic and Meta-Programming.

Prerequisite(s): A minimum grade of "C" in CSCI 5530.

CSCI 7533 Requirements and Architecture**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Software requirements and architecture evaluation using examples of complex software intensive systems. Product-line approach and use of industry standards. Functional and object oriented approaches in complex domains such as avionics, ground vehicles, medical devices, telecommunication. Students are expected to critically evaluate and develop architecture and requirements for sizable systems, functioning as lead architects and requirements managers.

Prerequisite(s): A minimum grade of "C" in CSCI 5530 or Permission of Instructor.

CSCI 7534 Testing and Measurement**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Testing and quantitative evaluation of software products and processes. Topics include: models, methods, standards and tools for testing, measurement and evaluation, test (defect) catalog and coverage testing of units, components, and subsystems. Integration, system and acceptance testing and evaluation, test suites, regression testing and test automation.

Prerequisite(s): A minimum grade of "C" in CSCI 5530 or Permission of Instructor.

CSCI 7535 Applied Cryptography**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of cryptographic techniques and their application. Topics will include stream ciphers, block ciphers, key exchange algorithms, asymmetric ciphers, digital signatures, public key infrastructure, hash functions, elliptic curve ciphers, and techniques of cryptanalysis and applications of cryptography.

Prerequisite(s): A minimum grade of "B" in CSCI 7536.

CSCI 7536 Network and Computer Security**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the fundamentals of network and computer security and their application. Topics include securing each layer of the OSI model, TCP/IP versions 4 and 6, operating system security, network management systems, secure coding techniques, and the basics of encryption.

CSCI 7610 Graduate Technical Seminar**0 Credit Hours. 1 Lecture Hour. 0 Lab Hours.**

Students will research topics related to their major/concentration, under the supervision of one or more faculty members. Each student will present results on topics of interest to the class on new developments in computer science, or on his/her research project.

CSCI 7630 Current Trends in Computing**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This graduate course is designed to introduce students to current trends and issues in Computing.

CSCI 7710 Advanced Computer Security**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Theory and practice of computer security. Topics include cryptography, cryptanalysis, digital certificates, coding theory, computer forensics, and system security.

Prerequisite(s): CSCI 5330G or CSCI 5431G.**CSCI 7890 Directed Study in Computer Science****1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

Directed study under faculty supervision.

Prerequisite(s): Permission of Instructor and Department Chair.**CSCI 7892 Research Project in CSC****1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.****CSCI 7899 Research Project in Computer Science****1-6 Credit Hours. 1-6 Lecture Hours. 0-4 Lab Hours.**

Research project addressed toward a real world problem.

Prerequisite(s): Permission of Project Advisor and Department Chair.**CSCI 7999 Thesis****1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Thesis.

CSDS Communication Disorders

CSDS 5000G Multicultural Issues in Health Care**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

This study abroad course is designed to assist students in developing a global perspective as they prepare to work within the health profession. Emphasis on the multi-dimensional nature of healthcare, preventive programs, and interventions through health-related service-learning.

Prerequisite(s): Permission of the Instructor.**Cross Listing(s):** CSDS 5000.**CSDS 7136 Introduction to Clinical Practicum in Communication Disorders****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

First semester of clinical practicum lecture. Synthesis of knowledge and skills necessary to implement diagnostic and therapeutic approaches to communication impairments in children, youth and/or adults being served in a clinic setting.

Corequisite(s): CSDS 7136L.**CSDS 7136L Introduction to Clinical Practicum in Communication Disorders****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

An introductory practicum course designed to provide instruction and practice experience in diagnostic and therapeutic approaches to communication impairments in children, youth and/or adults being served in a clinic setting.

Corequisite(s): CSDS 7136.**CSDS 7137 Clinical Practicum in Communication Disorders****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Second semester of clinical practicum lecture. Synthesis of knowledge and skills necessary to implement diagnostic and therapeutic approaches beyond the introductory level for communication impairments in children, adolescents and/or adults.

Prerequisite(s): A minimum grade of "C" in CSDS 7136.**Corequisite(s):** CSDS 7137L.**CSDS 7137L Clinical Practicum in Communication Disorders****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Second semester of supervised clinical practice. The clinical experience is designed to provide skill development in diagnostic and therapeutic approaches beyond the introductory level for communication impairments in children, adolescents and/or adults.

Prerequisite(s): A minimum grade of "C" in CSDS 7136L.**Corequisite(s):** CSDS 7137.**CSDS 7138 Clinical Practicum in Communication Disorders Intermediate****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Third semester of clinical practicum lecture. Synthesis of knowledge and skills necessary to implement diagnostic and therapeutic approaches beyond the introductory level for communication impairments in children, adolescents and/or adults. Emphasis is placed on the development of interpersonal skills, professionalism and clinical independence.

Prerequisite(s): A minimum grade of "C" in CSDS 7137.**Corequisite(s):** CSDS 7138L.**CSDS 7138L Clinical Practicum in Communication Disorders-Intermediate****2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Third semester of supervised clinical practice. The clinical experience is designed to provide skill development in diagnostic and therapeutic approaches beyond the introductory level for communication impairments in children, adolescents and/or adults. Emphasis is placed on the development of interpersonal skills, professionalism and clinical independence.

Prerequisite(s): A minimum grade of "C" in CSDS 7137L.**Corequisite(s):** CSDS 7138.**CSDS 7140 Diag/Appraisal Comm Disorders****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Instruments, principles and practices in the assessment of populations with communication impairments. This includes non-verbal, culturally diverse, preschool and school aged children, and adults. Field experiences required.

CSDS 7141 Cognitive and Linguistic Foundations of Language**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Presents an overview of the nature, and development of cognitive and linguistic skills needed for effective communication. Topics to be addressed include but are not limited to development of object permanence auditory and visual memory, and meta-linguistics and Brown's stages of development. Cultural factors related to cognition and linguistics will be discussed. Field experience may be required.

CSDS 7142 Professional and Ethical Issues in Communication Sciences and Disorders**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Overview of a variety of professional and ethically-based issues that relate to the licensure and practice of speech- language pathology in various settings. Topics may include the ASHA Code of Ethics, legal issues, confidentiality, documentation, scheduling, service delivery models and professional practices according to state of Georgia regulations.

CSDS 7143 Language and Literacy Disorders in School-Age Children**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores issues related to impairments of oral language, written expression, and reading in school-age children (pre-k through adolescence). Students will explain disorders of spoken language and literacy and their links to each other and to related communication disorders as well as evaluate theories of language impairment and learn terminology that assists in conceptualizing language disorders within a culturally and linguistically diverse framework. Causes and prevention will be reviewed in addition to evidenced-based practices for assessment and intervention.

Prerequisite(s): A minimum grade of "C" in CSDS 7145.**CSDS 7144 Neuroanatomy and Physiology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In-depth study of neuro-anatomy and physiology of the central nervous and peripheral nervous systems as it relates to sensory, motor and cognitive processes underlying speech, language, and hearing. Field experiences may be required.

CSDS 7145 Language Disorders Early Child
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers assessment and treatment of infants and toddlers with a variety of speech and language disorders. Typical development and atypical development will be overviewed, as well the importance of working with families through the establishment of individualized family service plans. Intervention models for diverse populations will also be discussed.

CSDS 7148 Oral & Motor Speech Disorders
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Assessment and treatment of oral and motor speech disorders (apraxia and the dysarthria).

Prerequisite(s): A minimum grade of "C" in CSDS 7144.

CSDS 7149 Aural Rehabilitation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Principles of hearing and issues of intervention relevant to the practice of speech-language pathology. Study of hearing impairment, etiological factors associated with auditory habilitation and the effective use of amplification. Field experiences may be required.

CSDS 7150 Swallowing Disorders
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The study of anatomy and physiology related to the swallowing mechanism and the nature of dysphagia, as well as current practices in the assessment and treatment of swallowing disorders in children and adults with various etiologies. Cultural implications of swallowing disorders will be discussed. Field experience/observation may be required.

CSDS 7151 Aphasia & Rel Neur Disorders
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Assessment and treatment of acquired neurogenic language disorders as well as cognitive communication disorders in adults. Field experience may be required.

Prerequisite(s): A minimum grade of "C" in CSDS 7144.

CSDS 7154 Advanced Practicum in Communication Disorders I
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Fourth semester of supervised clinical practicum with clients of all ages and various cultural/linguistic backgrounds. A practicum course designed to provide instruction and practical experience in diagnostic and therapeutic approaches to communication impairments with minimum to moderate supervision. Emphasis on development of interpersonal skills and professionalism.

Prerequisite(s): A minimum grade of "C" in all of the following: CSDS 7143 and CSDS 7150 and CSDS 7151 and CSDS 7157.

CSDS 7155 Advanced Practicum in Communication Disorders II
3 Credit Hours. 1 Lecture Hour. 1-12 Lab Hours.

Fifth semester of supervised clinical practicum with clients of all ages and various cultural/linguistic backgrounds. A practicum course designed to provide instruction and practical experience in diagnostic and therapeutic approaches to communication impairments with emphasis on independent service delivery. Continued development of interpersonal skills, professionalism, and clinical fellowship readiness.

Prerequisite(s): A minimum grade of "C" in CSDS 7154.

CSDS 7156 Voice and Velopharyngeal Disorders
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Theory, diagnosis and treatment underlying the articulation, resonance, and phonatory problems associated with voice, velopharyngeal disorders, and craniofacial anomalies. Detailed study and discussion of anatomical structures of the larynx, etiologies, technology, and multicultural issues affecting appropriate assessment, diagnosis, and treatment across the lifespan. Field experience may be required.

Prerequisite(s): A minimum grade of "C" in CSDS 7144.

CSDS 7157 Speech Sound Disorders
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The assessment and treatment of speech sound disorders with a specific focus on articulatory and phonological disorders in early childhood. Field experience may be required.

CSDS 7158 Acquired Cog. Comm Disorders
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Presents an overview of the nature, assessment, and treatment of cognitive-communication disorders, including (but not limited to) communication impairments related to acquired deficits in attention, memory, problem solving, and executive function. Specific etiologies to be discussed include traumatic brain injury, dementias, and right hemisphere damage. Cultural implications of cognitive-communication disorders will be discussed. Field experience may be required.

Prerequisite(s): A minimum grade of "C" in CSDS 7144.

CSDS 7163 Research Methodology
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

An orientation to strategies and methodology in the design and evaluation of research in communication sciences and disorders.

CSDS 7164 Comprehensive Synthesis and Analysis in CSD
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

This course uses an integration of didactic instruction, case-based learning and clinical experiences to promote student preparedness in content knowledge, skills acquisition, and clinical application. This course will include a review of the main concepts from each of the nine content areas as noted in the accreditation standards.

Prerequisite(s): A minimum grade of "B" in CSDS 7143 and CSDS 7151.

CSDS 7165 Independent Study
1-3 Credit Hours. 1-12 Lecture Hours. 1-12 Lab Hours.

Independent study in an area of interest or need in communication sciences and disorders.

CSDS 7166 Fluency and Fluency Disorders
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

This section of the course will focus on the review of theories, types, characteristics, etiologies, and treatment of fluency disorders across the lifespan. The course will place emphasis on the evidence-based assessment and treatment of childhood onset of stuttering and other fluency disorders across the lifespan. Field experience may be required.

CSDS 7230 Spec Top in Speech/Lang Path
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The study of a topic relevant to speech/language pathology.

ECEG Early Childhood

ECEG 7100 Early Childhood Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Review of research, programs, and strategies in program development of PreK-5 students. Students will develop skills involved in translating concepts into classroom practice.

ECEG 7300 Coastal GA Writing Project
1-6 Credit Hours. 0-6 Lecture Hours. 0-18 Lab Hours.

This course requires extensive and varied writing, running the gamut from notetaking to reflective journals, and from personal narrative to formal position papers. Students enrolled in the course are encouraged to explore topics of importance and interest.

ECEG 8060 Professional Practices
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed for new teacher candidates seeking P-5 certification. Course addresses legal issues and best practices of pedagogy.

ECON Economics

ECON 1101 Survey of Economics

3 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.

Basic concepts of micro- and macroeconomics including supply and demand, economic decision-making, prices and wages, money, interest rates, banking systems, unemployment, inflation, taxes, and government spending.

ECON 1150 Global Economic Problems

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Impact of international trade, international finance, and foreign direct investment on various parts of the world with emphasis on current world economic problems.

ECON 2105 Principles of Macroeconomics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This principles of economics course is intended to introduce students to concepts that will enable them to understand and analyze economic aggregates and evaluate economic policies.

ECON 2105M Prin of Macroeconomics By Wc

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

ECON 2106 Principles of Microeconomics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Analyzes the behavior of firms, workers, and consumers in perfectly competitive and imperfectly competitive markets. Particular emphasis is placed on firm behavior and how it is affected by the characteristics of the market.

ECON 3100 Multinational Econ Enterprises

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Evolution of multinational economic enterprises and their effect on jobs and exports/imports in the U.S. and on the economics of less developed countries.

Prerequisite(s): A minimum grade of "C" in ECON 2105.

ECON 3131 Intermediate Macroeconomics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The study of forces which determine the level of income, employment, inflation, interest rates, output with particular attention to the effects of government monetary and fiscal policy.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 3132 International Trade

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of international trade both in theory and practice. The course will cover standard trade theory models from Ricardo to Heckscher-Ohlin, including criticism of the theories. Provides students with the tools necessary to analyze trade and the likely impact of trade on domestic economic policy. Course will focus on microeconomic trade issues.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 3231 Intermediate Microeconomics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The market mechanism and its relationship to major institutions. Household decision making and consumer demand. Production, cost and the firm's supply decision. Market structures, market failures and the appropriate role of government policy.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 3232 International Macroeconomics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Studies macroeconomic relationships and policies in an open economy. Examines the balance of payments, the foreign exchange market, exchange-rate determination under alternative exchange-rate regimes, and international financial and monetary systems from the macroeconomic perspective.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 3460 Economics of Immigration

3 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.

Effects of immigration and immigration policy on labor markets, economic growth, education finance, health care finance, old-age retirement, enforcement costs, and federal, state, and local government finance. Focus is primarily on U.S. immigration.

Prerequisite(s): A minimum grade of "C" in ECON 2105 or ECON 2106.

ECON 3480 Economics of Vice

3 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.

Economic analysis of markets for goods and services that may be illegal or objectionable by community norms. Topics may include pornography, prostitution, drugs, human trafficking, gambling, corruption, alcohol, intellectual property theft, and cybercrime.

Prerequisite(s): ECON 2106.

ECON 3630 Economic History of U.S.

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Growth and development of economic institutions in the United States from the colonial period to the present with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance.

Prerequisite(s): HIST 2111 or HIST 2112.

Cross Listing(s): HIST 3630.

ECON 3710 Business and Economic Forecasting

3 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.

Concepts in time series analysis such as autoregression, moving averages, stationarity, and cointegration. Applications include topics such as macroeconomic and financial forecasting.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106 and BUSA 3131 or STAT 1401.

ECON 4030 Special Topics in Economics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A customized course that allows students to pursue further study in a specific topic. Topics for the course may include, but not limited to, sports economics, behavioral and experimental economics, economics of social issues, history of economics thought, game theory, or resource economics.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 4131 Applied Econometrics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course presents essential methods and tools of empirical analysis used in applied economics. The central theme is estimation and evaluation of regression models and interpretation of the results. Basic guidance on using a leading econometric software package for these purposes is provided.

Prerequisite(s): A minimum grade of "C" in BUSA 3132 or STAT 1402 and ECON 2106 and Senior Standing or permission of department chair.

ECON 4242 Analyzing Innovation Through Science Fiction

3 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.

Analysis of the process, limits, intended and unintended consequences of innovation and technological change through the synthesis of materials in business, economics, and science fiction, broadly defined. Other media and genres may be included.

Prerequisite(s): ECON 2106.

ECON 4331 Money and Banking**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of money, banking, and financial markets with particular emphasis on the impact that monetary policy has on business decision making.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 4332 Labor Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of wage and employment determination in the labor market. Topics include discrimination, human capital development, labor union, and unemployment.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 4333 Managerial Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Presents the theory of the firm as an aid to business decision-making, examines the employment relationship and incentive structures within and among firms, the make-or-buy decision, and the problems arising from incomplete contracting and opportunism.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 4334 Transportation Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students with the basic economic analysis of transportation, including the economic theories of transportation and location of economic activity, the history and current status of government regulation of transportation activities, and empirical analysis of the behavior of the transportation industries.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 4335 Public Finance and Public Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the role of government in a market economy, how governments can efficiently allocate expenditures among the various members of society, the government decision-making process, cost-benefit analysis, government expenditures, and the effects and incidence of taxation. The focus of the course is on the federal government. The course also examines various public policy issues, such as welfare to work programs, health care, and Social Security.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 4336 Industrial Organization and Regulation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the scientific study of imperfectly competitive markets. Topics include the causes of market imperfections (economies of scale, barriers to entry, etc.), behavioral and performance responses by firms to market imperfections, and government policy responses to market imperfections (antitrust law and regulation).

Prerequisite(s): A minimum grade of "C" in ECON 3231.

ECON 4337 Environmental Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will apply the basic principles of microeconomics to analyze a variety of environmental and natural resource policy problems. We will examine the causes of natural resource and environmental problems, the consequences of these problems, and measures for dealing with them. We will examine many real environmental and resource problems, including but not limited to, the depletion of oceanic fisheries, tropical deforestation, acid rain, pollution control, and endangered species.

Prerequisite(s): A minimum grade of "C" in ECON 2106.

ECON 4338 Health Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will apply the basic principles of microeconomics and statistics to health and health care markets. Topics addressed using economic theory and empirical methodology include the demand and supply of health care, health care market imperfections, and roles and behavior of physicians, hospitals, health insurers, and the government.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106 and BUSA 3131 or STAT 1401.

ECON 4339 Economic Analysis of the Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the effects of legal rules on economic performance. The incentives for individual and firm behavior encompassed in legal rules are analyzed. Topics include legal systems and the economic analysis of property, torts, contracts, corporations, and criminal behavior.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 4340 International Economics**3 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.**

International monetary relations, different exchange rate systems, the balance of payments adjustment, and a survey of major international financial institutions.

Prerequisite(s): A minimum grade of "C" in ECON 2105.

ECON 4431 Economic Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the economic and social challenges faced by rural areas of the United States and developing countries. The main concern is on what resources rural economies have, and how these resources can be used to sustain economic development. Special attention is given to economic development strategies that emphasize equity in distribution as a goal as well as access to resources by a wide cross-section of citizens.

Prerequisite(s): A minimum grade of "C" in ECON 2105 and ECON 2106.

ECON 4437 Regional and Urban Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of urban and regional economics, including the theories of regional growth and urban development. It also provides a framework for understanding regional economic development and the regional development planning process.

Prerequisite(s): A minimum grade of "C" in ECON 2106.

ECON 4450 Comparative Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Alternate economic systems as they relate to property rights and incentives, centralization, resource allocation, and distribution of income, economic development and economic transition.

Prerequisite(s): A minimum grade of "C" in ECON 2105 or ECON 2106.

ECON 4534 Commercial Risk Management and Insurance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course involves property and liability risks and the effective management of these risks with insurance. Application of property insurance to pure risk exposures including direct and indirect property. Application of liability insurance to general liability and catastrophic liability risks. Current topics in the field of commercial property and liability insurance.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

Cross Listing(s): FINC 4534.

ECON 4550 Public Choice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of economic theory and methodology to the study of non-market (political, governmental and other collective) decision making. Causes and consequences of governmental growth, elections, the behavior of bureaucrats, competition among interest groups, and constitutional economics.

Prerequisite(s): A minimum grade of "C" in ECON 3231.

ECON 4631 Eagles on Wall Street**3 Credit Hours. 1 Lecture Hour. 0 Lab Hours.**

This course will introduce students to the important topics of Wall Street finance, investment banking, and the financial markets of New York City. Students will meet with executives from the world's most prestigious banking, investment, and financial services firms. Because New York City (NYC) is one of the most important financial centers in the world, the location and setting will provide an excellent backdrop for the topics covered. Furthermore, NYC offers many venues that can be visited by the class to illustrate and reinforce the concepts discussed in the classroom. The classroom portion of the course will give students a broad overview of different sectors of the financial world while the travel portion will provide a chance for students to network with established professionals. Students could easily use this experience as a starting point to launch a Wall Street career. Regardless of a student's intended career path, this course will broaden horizons and introduce students to the many opportunities available on Wall Street and in the field of finance. Expenses specific to the travel portion of the course may vary.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**Cross Listing(s):** FINC 4631.**ECON 4790 Internship in Economics****3-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The student is to work with/for a manager of the enterprise in a management training or special projects capacity. Management level responsibilities and duties are expected of the student.

ECON 4830 Special Problems in Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A customized course that is under the direction of a faculty sponsor. It allows students to pursue farther study in a specific topic. Topics for the course may include, but are not limited to, sports economics, behavioral economics, economics of social issues, history of economic thought, or resource economics.

Prerequisite(s): Junior standing.**ECON 4890 Directed Study in Economics****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Designed for independent study and research in selected areas of economics under faculty supervision.

Prerequisite(s): Permission of Department Chair.**ECON 4900 Economic Methods & Sen Thesis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Should be taken the last term available before graduation. Review of the methods and tools of economic analysis culminating in an extensive research report (International Economics track requires a topic related to international economics) which will be evaluated by a departmental committee. Honors senior theses must meet the standards for presentation at a professional conference or submission to a journal.

Prerequisite(s): ECON 3710.**ECON 5450 Comparative Economic Systems****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the basic tenets of the major economic systems developed in the 19th and 20th centuries. The role of government and politics along with the contributions to economic and political thought of such men as Adam Smith, Karl Marx, John Maynard Keynes, and Milton Friedman.

Cross Listing(s): ECON 5450G.**ECON 5150G Survey of Econ for Educators****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survey of macroeconomic, microeconomic, and personal finance topics relevant to the Georgia Performance Standards for teaching economics in grades K-12. Course examples will be drawn from classroom resources available to educators. Students will be expected to develop a portfolio of grade-level appropriate examples for future classroom use.

ECON 5450G Comparative Economic Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the basic tenets of the major economic systems developed in the 19th and 20th centuries. The role of government and politics along with the contributions to economic and political thought of such men as Adam Smith, Karl Marx, John Maynard Keynes, and Milton Friedman.

ECON 6230 Foundations of Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the fundamental concepts and theories of microeconomics and macroeconomics.

Prerequisite(s): Graduate standing.**ECON 7030 Special Topics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A customized course that allows students to pursue further study in a specific topic.

Prerequisite(s): Permission of Department Chair.**ECON 7130 Math for Applied Economics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A review of mathematical concepts that will be utilized in the Master of Science in Applied Economics program. The primary focus will be on getting practice using mathematical concepts that are not necessarily new to the student but which may not have been used for some time. Topics include economic models, set theory, types of functions, comparative statics and differentiation, and constrained optimization techniques.

Prerequisite(s): Admission to MSAE program or Permission of Department Chair.**ECON 7131 Microeconomics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the modern study of microeconomics. Examines the economic behavior of consumer households, firms, and goods and factor markets. The efficiencies offered by competitive markets and the costs imposed by deviation from competition are examined.

Prerequisite(s): A minimum grade of "C" or better in ECON 7130 and admission to MSAE program or permission of Department Chair.**ECON 7132 Macroeconomics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to advanced macroeconomic theory. The first half studies dynamic models of long-run growth: the Salow model, the neoclassical growth model, overlapping generation models, and endogenous growth models; it also discusses long-run policy issues and determinants of cross-country differences in per capita income and growth. The second part of the course focuses on real business cycle models and the micro-foundations for macro models. It examines the nature of short-run fluctuations and the evaluation of macroeconomic policies that aim at stabilization, inflation, unemployment and the national debt.

Prerequisite(s): Admission to MSAE program or permission of Department Chair.**ECON 7133 International Economics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an analytical framework for understanding economic interaction between independent nations and examining international trade policies. The classical theory is complemented by a new theoretical view in which economies of scale and imperfect competition play an important role in determining international trade patterns and gains from trade.

Prerequisite(s): Admission to MSAE program or permission of Department Chair.**ECON 7232 History of Economic Thought****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a comprehensive study of the development of economic doctrine. Scientific discoveries of important economic theorists will be analyzed in detail. Special emphasis will be placed on the development of the theory of value, and how differences among economists on this topic have served to shape various market and non-market economic systems.

Prerequisite(s): Admission to MSAE program or permission of Department Chair.

ECON 7331 Applied Econometrics I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed as a first graduate course in applied econometrics. It teaches how to use regression modeling to examine practical economic problems. Students will learn how to build theoretically sound econometric models, estimate regression equations using statistical software, diagnose and correct specification errors, evaluate and correctly interpret regression results, and draw substantiated conclusions that help recommend economic policies and make managerial decisions.

Prerequisite(s): Admission to MSAE program or permission of Department Chair.

ECON 7332 Applied Econometrics II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a graduate course in econometric techniques commonly used in applied microeconomic analysis. Instrumental variable models are discussed as alternatives to the linear regression model along with diagnostics and specification testing. Additional techniques include simultaneous equation models, cross-section and panel estimations, and models of qualitative choice.

Prerequisite(s): A minimum grade of "C" in ECON 7331 and admission to MSAE program or permission of Department Chair.

ECON 7333 Economic Forecasting**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course covers the basics of forecasting and time series analysis as used in economics, business, and finance. Time series topics will include linear regression, trend and seasonal modeling, ARIMA models, and volatility modeling.

Prerequisite(s): A minimum grade of "C" in ECON 7331 or the approval of the Department Chairperson or the Master of Science in Applied Economics Program Director.

ECON 7431 Regional Economic Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides students with an in-depth understanding of economic concepts, methods, and theory to formulate and implement local economic development strategies. This course exposes students to regional economic development policy tools through case studies exploration.

Prerequisite(s): Admission to MSAE program or permission of Department Chair.

ECON 7531 Industrial Organization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the modern study of markets with a focus on game theoretic models of imperfect competition. Topics include firm behavior under monopoly power, cooperative and non-cooperative oligopoly, and monopolistic competition. Considerable time will be devoted to understanding the effects of uncertainty on market outcomes.

Prerequisite(s): A minimum grade of "C" or better in ECON 7131 and admission to the MSAE program or permission of department chair.

ECON 7631 Advanced Financial Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a detailed examination of financial institutions and the impact of institutions on the intertemporal allocations of resources.

The microeconomic aspects of financial institutions are emphasized. In addition, investment decisions are analyzed within the context of changing financial institutions.

Prerequisite(s): Admission to MSAE program or permission of Department Chair.

ECON 7632 Financial Economics and Risk**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a comprehensive study of the economics of risk and the various techniques used to measure and analyze risks are explored. The course begins with an overview of the risk management process. Then different quantitative approaches used in risk management are covered in detail.

Prerequisite(s): Admission to MSAE program or permission of Department Chair.

ECON 7890 Individual Research**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A guided individual research project that provides the student with an opportunity to explore a topic in-depth.

Prerequisite(s): Permission of Department Chair.

ECON 8131 Health Economics**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This advanced course provides an analytical framework for the allocation of health care resources and an exploration of empirical health economics. Topics addressed using advanced economic theory and empirical methodology include the demand and supply of health care, health care market imperfections, and roles and behavior of physicians, hospitals, health insurers, and the government.

Prerequisite(s): A minimum grade of "C" in ECON 7131 or the approval of the Department Chairperson or the Master of Science in Applied Economics Program Director.

ECON 8231 Behavioral Economics**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course introduces the basic concepts and foundations of behavioral economics that combines psychology and other behavioral sciences with economics to study how real people make decisions and their economic outcomes. Topics include choice under certainty and uncertainty, intertemporal choice and strategic interactions. A dual presentation approach compares behavioral and traditional treatments.

Prerequisite(s): A minimum grade of "C" in ECON 7131 or the approval of the Department Chairperson or the Master of Science in Applied Economics Program Director.

ECON 8331 Applied Dynamic Optimization**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The course covers topics in public policy (especially in tax policy), financial economics, agricultural economics, natural resources management, and production using techniques such as optimal control theory and dynamic programming, and also implementing them using computational software.

Prerequisite(s): A minimum grade of "C" in ECON 7132.

EDAT Accomplished Teaching

EDAT 6000 Professional Decision Making**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Preparation for making informed decisions about effective practices, assessment of learning, and professional actions that will enable educators to optimize both instructional performance and student achievement. This course will focus on the self-assessment of individual student understanding and application of master teacher outcomes based on National Board for Professional Teaching Standards.

EDAT 6001 Using Assessment to Improve Teaching and Learning**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Advanced study of the critical role of formative and summative assessment implementation and evaluation in an effective standards-based P-12 classroom. The course addresses knowledge of assessment theory and skill in effective practice.

EDAT 6115 Knowledge of Students and Their Learning**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Students will compile artifacts gathered from various courses in the program and reflect on their learning in relation to program standards.

EDAT 6119 Infusing 21st Century Technology**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Taught by Columbus State University.

EDAT 6125 Culturally Responsive Classroom Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will examine the role culture plays in teaching and learning. This course includes a strong emphasis on developing knowledge about the culture and backgrounds of students and their families in order to establish an effective classroom learning environment.

Prerequisite(s): Acceptance into the MEd in C&I Program.

EDAT 6159 Multicultural Studies across the Curriculum**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Examines professional literature, curricula, and teaching practices related to cultural diversity in education settings. Critically examines how traditional education promotes or hinders student success; identifies elements of culturally responsive pedagogy and their application to curriculum development and learning. Includes a 10-hour field experience in which teachers explore the cultural resources of the communities in which they work.

EDAT 6217 Lit & Learn Strat Across Curri**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Taught by Columbus State University.

EDAT 6226 Curriculum Design for Student Achievement**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course is part of the on-line M.Ed. in Accomplished Teaching. Investigates best practices in curriculum development, curriculum alignment reflecting state and national standards, and assessment in ensuring high student achievement. The course explores subject-specific pedagogical content, related content areas, inclusion of resources and technology that enhance curriculum development and implementation in the classroom. Includes a thirty-hour field experience in the public school environment in activities related to curriculum development and alignment. A curriculum development or curriculum alignment project will be submitted as partial requirement for the successful completion of the course. (Course fee required.).

EDAT 7100 Research Methodology in Education Research Methodology in Education**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A survey of education and educationally-related research methods incorporating an applied approach to research design. The ability to read, interpret, conduct and report research is emphasized to improve practice in educational settings.

EDAT 7131 Enhancing Student Performance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will emphasize strategies for selecting and adapting curriculum, instruction, resources, and assessments in order to maximize learning. The course will provide educators with ways to identify, analyze, and use results from multiple performance assessments to plan instruction aimed at enhancing and demonstrating learning. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

EDAT 7132 Framework for Teaching**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of teaching and learning strategies associated with effective teaching practices. Emphasis is placed upon the relationships that exist between student development, instructional practices, educational environments, continuous reflection and assessment, learning communities, and dispositions of the profession. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

EDAT 7133 Trends, Issues, & Research in Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to help practitioners develop critical frameworks for designing and evaluating educational practices and programs within the context of current trends and issues in education. Emphasis is placed on specific research findings and their application to practice, in addition to the development of analytical and communicative skills needed to improve teaching and learning. Candidates will formulate their own professional goals that will culminate with the presentation of a professional portfolio at the end of the program.

EDCI-Education GAsate Franchi

EDCI 7660 Practicum I**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

EDET Education-GOML

EDET 8010 Reflective Teaching Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introductory course for Educational Specialist Degree. National Board for Professional Teaching Standards are used for candidate's self-assessment of professional goals that are based upon an understanding and application of a master teacher as leader. This course provides the basis for an individualized program of study by identifying appropriate guided electives.

EDET 8020 Using Assessment and Data**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Techniques for establishing reliable and valid data sources for student, classroom, and school improvement decisions. Candidates learn how to utilize technology tools for educational management.

EDET 8040 Strategic Plan School Reform**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of major theories and evidence-based practices in the design and development of research to evaluate the effectiveness of school-based programs, including curricular, co-curricular, and staff development initiatives for the improvement of student learning.

EDLD Educational Leadership

EDLD 7090 Selected Topics in Educational Leadership**1-3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Participants examine selected topics in the areas of P-12 and postsecondary administration and supervision. Focuses on the specialized needs of administrators, supervisors, and teachers.

EDLD 7331 Foundations of Student Affairs in Higher Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers the student services associated with divisions of student affairs in higher education settings. The course is designed to trace the development and understand the philosophy of student services, and to explore the issues that face student affairs professionals in higher education settings.

Prerequisite(s): Admission to M.Ed. in Higher Education or permission of instructor.

EDLD 7430 American Higher Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course analyzes the evolution and organization of American higher education. Participants examine the dominant historical, philosophical, and social constructs which impacted American higher education. Consideration will be given to the roles and missions of vocational/technical institutes, 2-year and 4-year colleges, and comprehensive universities.

Prerequisite(s): Admitted to M.Ed. program or permission of instructor.

EDLD 7431 Higher Education Administration
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Overview of the evolution and organization of American higher education administration. Examines the dominant leadership and managerial themes shaping the nation's system of post-secondary education. Considers administrative and management precedents that shaped the structuring and management of vocational/technical institutes, 2-year and 4-year colleges, and comprehensive universities.

EDLD 7432 History of American Higher Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is an analysis of the historical evolution of American higher education. The course examines the conceptual belief that American higher education is a culmination of historical development which directly influences every aspect of higher education administration. Considers historical precedents that shaped the structuring and management of vocational/technical institutes, 2-year and 4-year colleges, and comprehensive universities.

EDLD 7530 Transformational School Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an introduction to leadership through a comprehensive overview of the field of educational administration. Transformational leadership, as well as distributed and democracy-centered school leadership, will be studied as a means of leading schools in the 21st century.

EDLD 7531 Legal and Ethical Issues in School Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides candidates the opportunity to examine legal and ethical principles and professional norms by promoting the development of an inclusive school climate characterized by supportive relationships, a personalized culture of care, and an equitable and culturally responsive school environment. The school leader examines issues concerning local, regional, state, and federal laws and guidelines that may impact the educational leader's efforts to develop a legally sound and ethical educational institution. The Code of Ethics for Georgia Educators provides a core ethical system for transformational school leadership.

EDLD 7532 Managing Human Capital
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of the system of human resources, including recruiting, selecting, maintaining, and developing school personnel in the democracy-centered school. Candidates explore, demonstrate, and evaluate the relationships between administrators and other school personnel with an emphasis on empowering human resources in educational settings. Candidates analyze human resources process, procedures and techniques used to facilitate the attainment of state, school district and school educational visions, missions, goals, and objectives. The course demonstrates a focus on cultural, legal, and ethical issues involved in leading productive teams in democracy-centered schools.

EDLD 7533 Mobilizing Communities
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide teacher leaders with the opportunity to demonstrate the knowledge, skills, and dispositions essential for democracy-centered school leaders in communicating with various stakeholders. Sensitivity to multicultural needs and an understanding of all communities—both internal and external—provide a foundation for the democracy-centered school leader to provide means of access to the school's systems. Interacting with internal and external stakeholders as a key role in teacher leadership will be explored and practiced through readings, discussions, seminars, and field-based experiences for the purpose of mobilizing communities in support of teaching and learning. This course is aligned to the Georgia Board of Regents Principles, Georgia Professional Standards Commission's Teacher Leadership Program Standards, and Council for the Accreditation of Educator Preparation Standards.

EDLD 7534 Leading Innovation and Change
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will focus on knowledge and skills of leading innovation and change. Candidates will understand how problem-solving and decision-making may be utilized in support of innovation, change, learning, and teaching. Stages of innovation and change will be explored in the school/district setting. This course is aligned to the Georgia Board of Regents Principles (Leading Change) (Relationship Development) and the ELCC Standards.

EDLD 7535 Utilizing Data in Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides educational leaders with knowledge, skills, and application of data in the school improvement process in order to promote robust and meaningful curricula and assessment programs, and ensure effective and efficient management of the school or district to promote student social and academic learning. This course builds educational data competencies by equipping candidates with the knowledge, skills and dispositions needed to identify, navigate, discuss, explain, analyze, interpret, and communicate school, district, state, and national educational databases appropriate in school development and improvement processes.

EDLD 7536 Developing Professional Learning Communities
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides candidates with the opportunity to examine and apply theory and research related to leadership, motivation, facilitating change, effective communication, team-building, and creating and sustaining professional learning communities.

EDLD 7539 Finance for Educational Leaders
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides candidates with the means to promote the academic success and personal well-being of students by ensuring effective and efficient management of the school's fiscal resources. Candidates examine essential business functions including budgeting, facilities finance, purchasing, and entrepreneurship as they relate to the day-to-day functions of the complex school organization.

EDLD 7540 Politics of P-12 Public Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides candidates with the means to examine organizational politics while considering organizational and community values and missions. In order to promote the academic success and personal well-being of their students and stakeholders, candidates learn to advocate for policies and resources, build and sustain productive relationships, and promote an understanding and appreciation for a diverse community.

EDLD 7737 Supervised Field Experience I
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides candidates with the opportunity to present a completed, evidence-based electronic portfolio to meet GaPSC criteria for certification under the guidance of the Leadership Candidate Support Team (LCST). *125 Supervised Field Experience Hours are required.

EDLD 7738 Supervised Field Experience II
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides candidates with the opportunity to present a completed, evidence-based electronic portfolio to meet GaPSC criteria for certification under the guidance of the Leadership Candidate Support Team (LCST). *125 Supervised Field Experience Hours are required.

Prerequisite(s): Satisfactory completion of EDLD 7737.

EDLD 7739 Supervised Field Experience III
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course concludes the EDLD M.Ed. program by allowing candidates to apply GaPSC leadership Standards, the LKES standards, and the outcomes of their clinical practice requirements. Candidates present a completed, evidence-based electronic portfolio to meet GaPSC criteria for certification under the guidance of the Leadership Candidate Support Team (LCST). *50 Supervised Field Experience Hours are required.

Prerequisite(s): Satisfactory completion of EDLD 7737 and EDLD 7738.

EDLD 8135 Educational Planning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines concepts and theories relating to various forms and approaches of planning at the school district and postsecondary educational levels. Emphasis is placed on specific skills to perform educational forecasting and management techniques to plan for future events.

EDLD 8230 Instructional Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

In the EDLD Ed.S., instructional leaders build consensus among all stakeholders of what students should know and do as a consequence of their participation in schools, as well as what it means for students to become well-adjusted, contributing members of society. In this course, leadership candidates will work to build such a vision that can require reconciling possibly competing perspectives among diverse members of the school community. Based on this vision, these leaders will create a plan to implement, monitor, and evaluate impact to promote continuous and sustainable improvement.

EDLD 8231 Planning, Instruction, and Assessment through Transformational Leadership

3 Credit Hours. 3 Lecture Hours. 100 Lab Hours.

Transformational school leaders promote the use of rigorous curricula, which set high expectations for students and are aligned to academic standards. In this course, leadership candidates will develop a plan that seeks to maximize student learning through authentic and differentiated planning and pedagogy, instruction and effective assessment strategies that inform practice. They develop and coordinate these systems in ways that create opportunities to personalize the academic program to meet individual student needs. The effectiveness of implementation and the impact of these systems on student learning are evaluated. The clinical practice embedded in this course is 100 field experience hours. This course is aligned to the GaPSC Leadership Program Standard 2 and LKES Standard 3.

EDLD 8232 Leading Human Capital
3 Credit Hours. 3 Lecture Hours. 100 Lab Hours.

Transformational school leaders support the professional learning of effective, caring teachers and leaders who are able to work with students productively in the classroom and who can collaboratively lead a school or district. In this course, leadership candidates will collaborate with other transformational leaders in building an effective staff with a focus on personnel recruitment, selection, assignment of responsibilities, support, evaluation, and retention. Developing the professional skills of educators involves such activities as coaching, creating supportive conditions, and fostering a learning community. The clinical practice embedded in this course is 100 field experience hours. This course is aligned to the GaPSC Leadership Program Standard 3 and LKES Standard 5.

EDLD 8233 Cultivating School Climate
3 Credit Hours. 3 Lecture Hours. 100 Lab Hours.

Transformational school leaders create healthy, safe, and supportive school environments in which students are known, accepted, valued, and empowered to reach their fullest potential. In this course, candidates will do so by supporting a culture defined by high expectations, trust and a collective sense of responsibility for the academic, social and emotional needs of all students. The clinical practice embedded in this course is 100 field experience hours. This course is aligned to the GaPSC Leadership Program Standards 4 and LKES Standard 2.

EDLD 8234 Building Instructional Capacity
3 Credit Hours. 3 Lecture Hours. 100 Lab Hours.

Education leaders strive to ensure that staff have the requisite organizational resources, time, structures and roles to increase student learning and achievement. In this course, leadership candidates will use innovation in developing class schedules, student and teacher assignments, implementation of instructional technology in the classroom, and plans for allocation of time and space for staff to exchange ideas and collaborate via Professional Learning Communities (PLC). The clinical practice embedded in this course is 100 field experience hours. This course is aligned to the GaPSC Leadership Program Standard 5 and LKES Standard 6.

EDLD 8235 Engaging Stakeholders in School Improvement
3 Credit Hours. 3 Lecture Hours. 100 Lab Hours.

In the EDLD Ed.S., transformational school leaders build and sustain productive relationships with families and other community partners in the government, non-profit and private sectors. In this course, leadership candidates will promote understanding, appreciation and use of the community's diverse cultural, social and intellectual resources. In doing so, they will communicate regularly and openly with families and community partners, and seek their input and support for continuous improvement efforts.

EDLD 8236 Managing Operations for Viability
3 Credit Hours. 3 Lecture Hours. 100 Lab Hours.

Transformational school leaders are responsible for the effective, efficient, equitable and ethical management of schools and districts. In this course, leadership candidates demonstrate responsibilities that include acquiring and allocating resources, monitoring and addressing internal and external regulatory requirements, developing organizational policies and practices, and other administrative duties that maintain the continued viability of the school or district. The clinical practice embedded in this course is 100 field experience hours. This course is aligned to the GaPSC Leadership Program Standards 7 and LKES Standard 4.

EDLD 8431 Higher Education Law
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Explores basic legal precepts and their application to institutions of higher education, primarily using the case study method and discussion. Covers such topics as constitutionally-mandated due process and equal protection, non-discrimination in employment and educational programs, privacy openness, contractual relationships with students, tenure and academic freedom, and faculty governance.

EDLD 8432 Higher Education Finance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Fiscal management and budgeting practices applicable to higher education institutions are the focus of this course. It is intended for persons seeking a working knowledge of budget development, financial management, and fiduciary control in vocational/technical schools, two- and four-year colleges, and universities.

EDLD 8433 Higher Education Governance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the organizational dynamics of higher education institutions as well as traditional and emerging managerial patterns. The use of organizational models and paradigms enables participants to analyze a variety of contemporary issues and situations in higher education settings.

EDLD 8434 The Community College
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the educational mission of the two-year postsecondary institution (vocational/technical institutes and community college). Particular emphasis is given to the philosophical, pedagogical and organizational underpinnings of two-year institutions with concentration on their historical development, student clientele, and educational mission.

EDLD 8435 Higher Education Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines policy-formation processes in higher education institutions. The skills of policy analysis and policy development, the identification of policy issues appropriate for study at these institutions, and the relationship of policy to all other areas of administration are considered.

EDLD 8436 Grant Development/Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will learn the methods and processes of project development, funding source development, and proposal writing. All grants and proposals developed during the course will be submitted to various foundations and/or government agencies for possible funding.

EDLD 8439 Politics of Higher Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the myth that politics and American higher education exist in separate worlds. Participants will examine the current "press" for institutional change and its political implications for two-year colleges, four-year colleges, and comprehensive universities. Manifestations of political influence systems at the federal and state levels will also be considered.

EDLD 8535 College Student Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines trends and changes in the characteristics of college students and the institutions they attend (cohort changes), research issues related to college impact (student change), and emerging theories and methodologies that address the consequences of attending college. This course intends to provide a broad introduction to research on students in a broad range of developmental and sociological areas.

EDLD 8536 Assessment and Evaluation in Higher Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide an understanding of current assessment and evaluation methods in higher education settings. The course provides students with an introduction to the concept of institutional effectiveness, which focuses on an institution's ability to use planning strategies and evaluation information to assess current performance and plan for improvement. This course will also examine the design and appropriate implementation of assessment evaluation methods as they relate to various accreditation standards within higher education.

Prerequisite(s): Admission to M.Ed. in Higher Education or permission of instructor.

EDLD 8537 Globalization and Higher Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Candidates will explore the social, educational, economic, and political structures of globalization and the resulting impact on the mission and vision for higher education. Candidates will review major works on how higher education around the world has changed as a result of globalization and how higher education in the United States will meet the challenge to internationalize. Participants will focus on analysis of educational issues on a worldwide basis with opportunities to focus on a particular country and analysis of qualitative research methods as used in cross-cultural and comparative education studies.

Prerequisite(s): Admission to Higher Education Administration (M.Ed. or Ed.D) program.

EDLD 8630 Planning for Change**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will serve as the introductory course to the Ed.S. Program in Educational Leadership. The course will focus on issues that democracy-centered leaders may face relative to high expectations and school/community relations as part of planning for change. While the focal point will be on how the democracy-centered leader plans for meaningful change in education, the change will be in context with human dynamics and relationships. Participants will examine cultural, ethical and interpersonal issues that affect school climate and resistance to significant change in a democracy-centered school culture. The course is designed to be 1/3 knowledge-based, 1/3 lab-based, and 1/3 performance-based at the district or school level. This course is aligned to the Georgia Board of Regents Principles (7) Performance Management, (9) Leading Change, and (10) Relationship Development and ELCC Standards 1-6.

Corequisite(s): EDLD 8631.

EDLD 8631 Implementing Change**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will focus on leading change by having the participants apply change theory in initiating a change effort in the educational setting. After a review of structural and post-structural perspectives, candidates will identify a need with special attention given to the relationship of the change effort to the organizational vision. Candidates will be coached on tools and processes used in implementing change to address the need, as well as coached on how to monitor progress of the change initiative. Skills of leading change will be demonstrated through simulations and lab activities. The course is designed to be 1/3 knowledge-based, 1/3 lab-based, and 1/3 performance-based at the district/school level. This course is aligned to the Georgia Board of Regents Principles (7) performance Management and (9) Leading Change and ELCC Standards 1-5.

Corequisite(s): EDLD 8630.

EDLD 8632 Organizational Culture**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will focus primarily on components of organizational culture, including curriculum and instruction, the technical "core" of the school/district and leadership. Distributed leadership within the culture of high academic expectations will be examined, as well as school/district climate issues associated with "fluid leadership." A major emphasis will be on conflict management and motivational strategies for students, faculty/staff. The course is designed to be 1/3 knowledge-based, 1/3 lab-based, and 1/3 performance based at the district or school level. This course is aligned to the Georgia Board of Regents Principles (5) Organizational Culture and ELCC Standards.

Prerequisite(s): A minimum grade of "C" in EDLD 8630 and EDLD 8631.

Corequisite(s): EDLD 8737.

EDLD 8633 Curriculum and Instructional Leadership**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed for the beginning principal/district level administrator to demonstrate best practices in leading curriculum and instruction in the democracy-centered educational setting. The candidates in the course will implement strategies to facilitate curriculum wisdom. Candidates will also identify research-based best practices and strategies in effective schools. Candidates will be immersed in instructional supervision of teaching and learning, including assessment for learning. The course is designed to be 1/3 knowledge-based, 1/3 lab-based, and 1/3 performance based at the district or school level. This course is aligned to the Georgia Board of Regents Principles (1) Curriculum (2) Instruction and ELCC Standards 1,2,3, and 5.

Prerequisite(s): A minimum grade of "C" in EDLD 8630, EDLD 8631, and EDLD 8632; a minimum grade of "S" in EDLD 8737.

Corequisite(s): EDLD 8634 and EDLD 8738.

EDLD 8634 Managing Operations and Processes**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide candidates with an in-depth look at the essential day-to-day operational management of the school/system, as well as features of day-to-day processes that impact teaching and learning, such as attendance, parent volunteer programs, professional learning programs, the hiring process, staff scheduling, etc. Fiscal policies and procedures will be analyzed from the perspective of aligning resources with instructional priorities. The physical site, including grounds and buildings, will be analyzed from the perspective of state, system, and local school rules, policies, and procedures, as well as aligning the use of facilities with instructional priorities. The course will provide an overview of the safe, orderly and engaging learning environment, as it relates to day-to-day operations. Working conditions will be examined from a best practices perspective. The beginning principal/district office administrator will understand, practice, and implement strategies to facilitate professional learning in a high performing school, where teaching and learning needs define facilities and resource needs. Candidates will identify barriers and interventions to professional learning and development, especially as professional learning relates to operational procedures. The course will emphasize current problems in the management of the learning organization, including, but not limited to, diversity, ethical leadership, politics, and policy in today's global society. The course is designed to be 1/3 knowledge-based, 1/3 lab-based, and 1/3 performance-based at the district or school level. This course is primarily aligned to Georgia Board of Regents Principles (8) Managing Operations and Processes and ELCC Standards 2, 3, 5.

Prerequisite(s): A minimum grade of "C" in EDLD 8630, EDLD 8631, and EDLD 8632.

Corequisite(s): EDLD 8633 and EDLD 8738.

EDLD 8635 Leading School Renewal**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course allows candidates to develop the knowledge, skills and disposition needed to implement successful school improvement and allow them to lead such process in their own school/school district. Successful school improvement under state and federal mandates requires major and dramatic change in a limited time. Major topics to be covered, among others, include elements of successful school improvement process; benchmarking and correlates of successful schools; building the capacity for change through effective and focused program of staff development; leading the school improvement effort by engaging teachers, faculty, parents, and community members; dealing with barriers against the school improvement process; utilizing technology in school improvement process to improve student outcomes; assessing the school improvement process to identify progress and gaps in student learning; building appropriate school culture for sustainable and lasting school improvement process.

EDLD 8735 Higher Education Practicum**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Participants complete a supervised field experience under the direction of a practicing higher education administrator or supervisor.

EDLD 8737 Residency I**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

In the EDLD Ed.S. program, transformational school leaders will engage in innovative, performance-based practices aligned with the Georgia Professional Standards Commission (GaPSC) and Leader Keys Effectiveness System (LKES) standards. This course will include orientation to the EDLD Ed.S. program, the GaPSC Leadership Standards, the LKES standards, and an overview of field experience requirements (750 hours). Under the guidance of a Leadership Candidate Support Team (LCST), candidates will focus on the development of a performance-based, electronic portfolio to meet GaPSC requirements for Tier II Educational Leadership certification. The clinical practice embedded in this course is 250 field experience hours. Admission into this course is by instructor permission only. *250 Clinical Practice hours are required.

EDLD 8738 Residency II**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

In the EDLD Ed.S. program, transformational school leaders will engage in innovative, performance-based practices aligned with the Georgia Professional Standards Commission (GaPSC) and Leader Keys Effectiveness System (LKES) standards. Under the guidance of a Leadership Candidate Support Team (LCST), candidates will focus on the development of a performance-based, electronic portfolio to meet GaPSC requirements for Tier II Educational Leadership certification. The clinical practice embedded in this course is 250 field experience hours. Admission into this course is by instructor permission only. *250 Clinical Practice hours are required.

Prerequisite(s): A minimum grade of "S" in EDLD 8737.

EDLD 8739 Residency III**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

In the EDLD Ed.S. program, transformational school leaders will engage in innovative, performance-based practices aligned with the Georgia Professional Standards Commission (GaPSC) and Leader Keys Effectiveness System (LKES) standards. This course will include orientation to the EDLD Ed.S. program, the GaPSC Leadership Standards, the LKES standards, and an overview of field experience requirements (750 hours). Under the guidance of a Leadership Candidate Support Team (LCST), candidates will focus on the development of a performance-based, electronic portfolio to meet GaPSC requirements for Tier II Educational Leadership certification. The clinical practice embedded in this course is 250 field experience hours. Admission into this course is by instructor permission only. *250 Clinical Practice hours are required.

Prerequisite(s): A minimum grade of "S" in EDLD 8738.

EDLD 8830 Directed Study in Educational Leadership**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Participants propose and carry out an independent research project. Projects may be in the areas of P-12 or higher education administration and/or supervision. The approved project will address the specialized preservice/in-service needs of the participant.

Prerequisite(s): Instructor permission.

EDLD 8839 Directed Research in Educational Leadership**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Participants complete a fully formulated study in the area of education administration or supervision, and orally defend a written report descriptive of that study. Students are limited to register for this course twice during the program of study.

Prerequisite(s): A minimum grade of "C" in EDUR 7130, 8131, and EDUR 8434.

EDLD 9235 Contemporary Issues in Educational Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the two extremes of doctoral study. At one end the student must analyze and synthesize the historical precedents that have provided direction to educational administration, particularly in their (his/her) research area. At the other end the student must hypothesize and conceptualize the current issues that are impacting administrators in complex educational institutions. Such a synthesis will provide guidance in a research agenda and ultimately in dissertation development.

Prerequisite(s): Admission to Advanced Doctoral Study (Tier II).

EDLD 9331 Building Leadership Capacity
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on building individual and district leadership for effective schools. Candidates will examine leadership behaviors and dispositions from theoretical perspectives to identify ways individual leadership contributes to the development of vision and accomplishment of mission in a school/district setting. Given that leadership is a values-laden profession, dispositions of leadership candidates will be assessed and examined. Effective leadership behaviors in promoting learning and high-performance schools will be considered in light of leadership selection, development, and succession planning. A major component of the course will require development of a personal action plan to guide candidates to implement distributed leadership model within a school/district.

Prerequisite(s): Admission to Tier II Ed.D. cohort in Educational Leadership (P-12 Education).

EDLD 9332 Organizational Behavior in Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

In this course, candidates will review theoretical assumptions and empirical studies in organizational behavior in education. Candidates will be able to describe how assumptions/empirical claims have led (or not led) to dominant structures in American schools (political, economic, and legal dimensions). From the study of three perspectives of organizational culture, including integration, differentiation, and fragmentation, candidates will explore the usefulness of the three-perspective approach in analysis of their school/district culture. In addition, candidates will understand organizational identity to acquire skills to lead school/district to adapt to problems, performance expectations, and global challenges from the external environment that affect culture. Finally, approaches to help manage and change organizational culture will be assessed for utility in school/district settings.

Prerequisite(s): Admission to Tier II Ed.D. cohort in Educational Leadership (P-12 Education).

EDLD 9333 Ethics in Educational Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to prepare school leaders to identify and analyze ethical issues in education, with emphasis given to the role of the school leader in fostering an ethos of social justice in diverse communities. The course includes a survey of ethical theories and models for ethical decision-making, with candidates identifying and resolving ethical dilemmas from their own professional experiences.

Prerequisite(s): Admission to Tier II Ed.D. cohort in Educational Leadership (P-12 Education).

EDLD 9432 Program Evaluation for School Leaders
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Program Evaluation covers the theory and practice of systematic investigation of instructional programs, projects, products, and processes. The course is designed to teach practitioners to enhance organizational performance, address quality improvement, or improve school curricula by assessing the effectiveness of endeavors.

Prerequisite(s): Admission to Tier II Ed.D. cohort in Educational Leadership.

EDLD 9434 Transformative Educational Leadership Practice I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The first in a two-course series introduces and defines the nature of change and transformation in education, investigates change strategies; and, reviews and refines theories regarding educational transformation. Candidates examine transformative education and the vision, leadership, and drive necessary to create innovative and transformative learning experiences. Candidates focus on three major concepts: change, transformation, and creativity, and examine how to effectively plan a transformative educational program or intervention at the micro/local level.

Prerequisite(s): Admission to Tier II EdD cohort in Educational Leadership.

EDLD 9435 Transformative Educational Leadership Practice II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The final course in a two-course series focuses on two critical concepts: Transformative Education and Enlivened Learning from a global, interdisciplinary perspective. Candidates explore current transnational issues relevant to education, and review these issues from critical social justice theoretical perspectives including anti-racism, post/anti-colonialism, Marxism, disability studies, feminist perspectives, and theories of intersectionality. Candidates also examine the practices of critical self-reflexivity, resistance, and healing to pursue social change.

Prerequisite(s): Admission to Tier II EdD cohort in Educational Leadership.

EDLD 9531 Educational Leadership in the 21st Century
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on an examination of theoretical perspectives that have gained prominence over time. Candidates relate course material to their personal experiences and goals, and use this knowledge base to create a plan for developing personal leadership outlooks as professionals in educational leadership.

Prerequisite(s): Admission to Tier II EdD cohort in Educational Leadership.

EDLD 9532 Higher Education Resource Allocation and Deployment
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Emphasis on financial policies, planning, and budgeting; allocation; financial analysis and management, patterns of expenditure, sources of income including grantsmanship, philanthropy, and fundraising. Relationships between educational objectives and resource allocation.

Prerequisite(s): Admission to Tier II EdD cohort in Educational Leadership (Higher Education).

EDLD 9534 Emerging Pedagogical Approaches in Educational Leadership

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will explore and critically examine recent scholarly writing and research on teaching and learning in higher education. Topics will include recent developments in adult education theory, innovations in curriculum design and delivery, best practices in college teaching, student support, and assessment.

Prerequisite(s): Admission to Tier II Ed.D. cohort in Educational Leadership.

EDLD 9535 Executive Leadership in Higher Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will examine the theoretical approaches that define and describe various elements of academic and student affairs environments. Emphasis will be placed on executive-level positions in academic and student affairs administration in postsecondary institutions (e.g., department heads, deans, vice presidents) encompassing the knowledge and skills for current and future leaders in higher education. This course will include analysis and interpretation of research related to higher education, with implications for application of findings for improvement of colleges and universities.

Prerequisite(s): Admission to Tier II EdD cohort in Educational Leadership (Higher Education).

EDLD 9631 Research Seminar I

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The first in a four-course series designed to assist doctoral students to become consumers as well as a creators of academic research, this course provides students with an introduction to the dissertation process, intensive academic writing, and scholarly practitioner research based on the guiding principles of the Carnegie Project on the Education Doctorate.

Prerequisite(s): Admission to Tier II doctoral study in Educational Leadership.

EDLD 9632 Research Seminar II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The second in a four-course series designed to assist doctoral students to become consumers as well as creators of academic research, this course builds on the foundations of Research Seminar I to focus student efforts on compiling a comprehensive review of literature based upon their selected area of study.

Prerequisite(s): Minimum grade of "C" in EDLD 9631.

EDLD 9633 Research Seminar III**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The third in a four-course series designed to assist doctoral students to become consumers as well as creators of academic research, this course builds on the foundations created in Research Seminar I and II to focus student efforts on ascertaining the most suitable methodological approach for their study.

Prerequisite(s): Minimum grade of "C" in EDLD 9632.

EDLD 9634 Research Seminar IV**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The final course in a four-course series designed to assist doctoral students to become consumers as well as creators of academic research, this course provides students with the opportunity to compile and present a Reflective Program Portfolio highlighting their Tier II academic work that demonstrates their ability to progress to Tier III of the program. Students enhance their research agendas and discover meaningful ways to present their doctoral achievements and outcomes to a community of scholars.

Prerequisite(s): Minimum grade of "C" in EDLD 9633.

EDLD 9999 Dissertation**1-7 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The objective of this course is to prepare and assist the graduate student to successfully write and orally defend the Dissertation document.

Prerequisite(s): Admission to Tier III doctoral degree candidacy.

EDMS Ed Acclish Teach CSU-GML

EDMS 6001 Assessment for Instruction**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Overview and introductory study of the critical role of formative and summative assessment implementation and evaluation in an effective standards-based P-12 classroom. The course addresses knowledge of assessment theory and skill in practice at the basic level of the Extended Georgia Framework for Teaching and is appropriate for students pursuing initial teaching certificates. A weekly field experience is a required component of the course.

EDMS 6115 Knowledge of Students**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Interrelationships between human development, teaching and learning, including stage theories of development and age characteristics of learners, and understanding diversity and socioeconomic differences. Meets PSC requirement for teaching children with special needs. Requires 60 hours of field experience. (Course fee required.)

EDMS 6116 Research in Education**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is part of the on-line MAT in Math & Sciences. This course will provide the student with the opportunity to acquire skills, knowledge, and strategies necessary to perform action or educational research. (Course fee required.)

EDMS 6474 Technology as Teach and Learn Tool**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

EDMT Educ Math-GOML

EDMT 7360 Integration Technology in Math Instruction**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students examine the role of technologies in the teaching and learning of mathematics, with a particular focus on classrooms within urban environments. Course includes hands-on experience with graphing calculators, computer software tools, Internet resources, and instructional materials for integrating technology in mathematics instruction.

EDMT 7560 Theory & Pedagogy of Math Instruction**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.****EDMT 8430 Sociocult/Hist Issues Math Education****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students explore cultural, economic, political, and social structures and discourses as they relate to mathematics, mathematics teaching and learning, and research in mathematics. Course includes an examination of how research in mathematics and mathematics education is framed and enacted within different theoretical frameworks.

EDRD Georgia State Univ Franch

EDRD 7550 Link Literacy Assess and Classroom**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Linking Literacy and Classroom Instruction. This course involves advanced study of the planning and managing of classroom literacy events based on assessment information. Emphases include a supervised classroom experience where students (1) examine the ways of recording, analyzing, and using assessment information in daily classroom instruction; and (2) consider cultural, psychological, social, and political issues associated with traditional ability groups and alternative approaches to ability grouping that can be implemented to meet students' needs. Course may extend beyond one term.

EDRD 7600 Theory and Pedagogy in the Study of Reading**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course addresses methodologies and materials used in developmental reading programs. Students analyze strategies, materials, and organizational designs for teaching reading to all students including those representing diverse cultural and linguistic communities.

EDRD 7630 Literacy in the Content Areas**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****EDRD 7650 Individual Literature Assess and Instruction****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****EDRD 8610 Supervision of School Literature Program****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students analyze existing programs for elementary, middle, and high schools, examine roles of literacy personnel, and address methods of program evaluation and ways to achieve change in literacy programs. **Prerequisite(s):** Three literacy courses and admission to a master's-level degree program or admission to an EdS or PhD program. This course introduces students to organization, administration, and supervision of school (p-12) literacy (reading, language arts, English) programs.

EDSC Sci for Teachers

EDSC 5131 Earth Science I**4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Earth Science I is a survey of the natural processes at work on the Earth, including processes and history of the atmosphere, lithosphere, hydrosphere, and biosphere of the Earth. Materials comprising the Earth's crust (minerals and rocks) will be examined. This course is designed to fulfill the requirement for a one-semester, science lecture and laboratory course.

Cross Listing(s): EDSC 5131G.

EDSC 5132 Earth Science II**4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Earth Science II is a survey of the natural processes at work on the Earth, including those associated with its oceans, weather and climate. The history of climate change is also covered. This course is designed to fulfill the requirement for a one-semester, science lecture and laboratory course.

Cross Listing(s): EDSC 5132G.**EDSC 5151 Physics for Teachers: Mechanics and Thermodynamics**
4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A study of mechanics and thermodynamics to provide a framework for teachers to introduce or enhance a performance-based physical science curriculum in K-12 education. Students will develop an understanding of Newton's laws and many of the conservation laws. Topics include one and two-dimensional motion, forces and Newton's laws, circular motion, rotational motion, momentum, energy, work, thermal properties of matter, and fluid mechanics.

Cross Listing(s): EDSC 5151G.**EDSC 5152 Physics for Teachers: Waves, Electricity and Magnetism****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A study of waves, electricity, and magnetism to provide a framework for teachers to introduce or enhance a performance-based physical science curriculum in K-12 education. Students will develop an understanding of sound, light, electricity and magnetism. Topics include oscillations, traveling and standing waves, sound, wave and ray optics, electric forces and fields, electric potential and electric potential energy, circuits, magnetic fields and forces, electromagnetic induction and electromagnetic waves.

Cross Listing(s): EDSC 5152G.**EDSC 5161 Space Science for Teachers: Our Earth and Solar System****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A study of our Earth and Solar System to provide a framework for teachers to introduce or enhance a performance-based space science curriculum in K-12 education. Students will also develop an understanding of the history, methods and physics of solar system astronomy. Topics include motions of the sky, seasons, planetary geology and atmospheres, moons, asteroids and comets.

Cross Listing(s): EDSC 5161G.**EDSC 5162 Space Science for Teachers: Stars, Galaxies and the Nature of the Universe****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A study of stars, galaxies and the nature of the Universe to provide a framework for teachers to introduce or enhance a performance-based space science in K-12 education. Students will also develop an understanding of the history, methods and physics used to construct the modern view of the Universe. Topics include the Sun, the Sun-Earth connection, the Milky Way, special relativity, gravity and black holes, stars and stellar evolution, galaxies and the formation of modern cosmology, dark matter, dark energy and the creation and evolution of the Universe, and the formation of the chemical elements.

Cross Listing(s): EDSC 5162G.**EDSC 5131G Earth Science I****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Earth Science I is a survey of the natural processes at work on the Earth, including processes and history of the atmosphere, lithosphere, hydrosphere, and biosphere of the Earth. Materials comprising the Earth's crust (minerals and rocks) will be examined. This course is designed to fulfill the requirements for a one-semester, science lecture and laboratory course.

Cross Listing(s): EDSC 5131.**EDSC 5132G Earth Science II****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Earth Science II is a survey of the natural processes at work on the Earth, including those associated with its oceans, weather and climate. This history of climate change is also covered. This course is designed to fulfill the requirement for a one-semester, science lecture and laboratory course.

Cross Listing(s): EDSC 5132.**EDSC 5151G Physics for Teachers: Mechanics and Thermodynamics****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A study of mechanics and thermodynamics to provide a framework for teachers to introduce or enhance a performance-based physical science curriculum in K-12 education. Students will develop an understanding of Newton's laws and many of the conservation laws. Topics include one and two dimensional motion, forces and Newton's laws, circular motion, rotational motion, momentum, energy, work, thermal properties of matter, and fluid mechanics.

Cross Listing(s): EDSC 5151.**EDSC 5152G Physics for Teachers: Waves, Electricity and Magnetism****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A study of waves, electricity, and magnetism to provide a framework for teachers to introduce or enhance a performance-based physical science curriculum in K-12 education. Students will develop an understanding of sound, light, electricity and magnetism. Topics include oscillations, traveling and standing waves, sound, wave and ray optics, electric forces and fields, electric potential and electric potential energy, circuits, magnetic fields and forces, electromagnetic induction and electromagnetic waves.

Cross Listing(s): EDSC 5152.**EDSC 5161G Space Science for Teachers: Our Earth and Solar System****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A study of our Earth and Solar System to provide a framework for teachers to introduce or enhance a performance-based space science curriculum in K-12 education. Students will also develop an understanding of the history, methods and physics of solar system astronomy. Topics include motions of the sky, seasons, planetary geology and atmospheres, moons, asteroids and comets.

Cross Listing(s): EDSC 5161.**EDSC 5162G Space Science for Teachers: Stars, Galaxies and the Nature of the Universe****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A study of stars, galaxies and the nature of the Universe to provide a framework for teachers to introduce or enhance a performance-based space science in K-12 education. Students will also develop an understanding of the history, methods and physics used to construct the modern view of the Universe. Topics include the Sun, the Sun-Earth connection, the Milky Way, special relativity, gravity and black holes, stars and stellar evolution, galaxies and the formation of modern cosmology, dark matter, dark energy and the creation and evolution of the Universe, and the formation of the chemical elements.

Cross Listing(s): EDSC 5162.**EDSC 7550 Theory and Pedagogy of Science Instruction****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.****EDSC 8400 Strat of Instruction in Science****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****EDSC 8430 Nature of Science****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students explore cultural, economic, political, and social structures and discourses as they related to science, science teaching and learning and research in science and science teaching and learning. Course includes examination of how research in science and science education are framed and enacted within different theoretical frameworks.

EDSC 8600 Science in School Curriculum
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

EDUC Curriculum

EDUC 2090 PPB Practicum
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

This Pre-Professional Block Practicum is designed to assist students to integrate and apply knowledge gained through class activities in each of the following Area F Pre-Professional Block courses: EDUC 2110, Investigating Critical and Contemporary Issues in Education; EDUC 2120, Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts; EDUC 2130, Exploring Learning and Teaching. This practicum requires the completion of a variety of field-based assignments from each course. Successful completion of this practicum may be used to complete one of the requirements for admission to the Teacher Education Program. This 0-credit course will be completed as part of the Area F Pre-Professional Block. One-credit hour registration is needed only if student does not successfully complete the PPB Practicum course on the first attempt.

Corequisite(s): EDUC 2110, EDUC 2120, EDUC 2130.

EDUC 2110 Investigating Critical and Contemporary Issues in Education

3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

This course engages students in observations, interactions, and analyses of critical and contemporary educational issues. Students will investigate issues influencing the social and political contexts of educational settings in Georgia and the United States. Students will actively examine the teaching profession from multiple vantage points both within and outside the school. Against this backdrop, students will reflect on and interpret the meaning of education and schooling in a diverse culture and examine the moral and ethical responsibilities of teaching in a democracy.

Corequisite(s): EDUC 2090, EDUC 2120, EDUC 2130.

EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts

3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

Given the rapidly changing demographics in our state and country this course is designed to equip future teachers with the fundamental knowledge of understanding culture and teaching children from diverse backgrounds. Specifically, this course is designed to examine 1) the nature and function of culture; 2) the development of individual and group cultural identity; 3) definitions and implications of diversity, and 4) the influences of culture on learning, development, and pedagogy.

Corequisite(s): EDUC 2090, EDUC 2110, EDUC 2130.

EDUC 2130 Exploring Learning and Teaching

3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

Explore key aspects of learning and teaching through examining your own learning processes and those of others, with the goal of applying your knowledge to enhance the learning of all students in a variety of educational setting and contexts.

Corequisite(s): EDUC 2090, EDUC 2110, EDUC 2120.

EDUC 3234 Educational Psychology: Sec Ed
3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.

EDUC 7130 Curriculum, Theories and Design
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A comprehensive overview of the field of curriculum designed to develop the theoretical knowledge competencies and strategies needed by teachers and other curriculum developers at all levels of education to participate in the curriculum change process.

EDUC 8105 Hip Hop Pedagogy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This is a course designed for masters, specialists, and doctoral students interested in connecting the history, politics, economics, and culture of hip-hop to their pedagogical practices. The primary focus of this class will focus on middle school and high school science, history, and literature classrooms but can also be applied to elementary school classrooms as well. Critical and culturally relevant pedagogy will also be a focus of content.

EDUC 8130 Curriculum Theories and Design
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A comprehensive overview of curriculum orientations and paradigms, theoretical traditions, and emerging complexities within the field of curriculum studies. This course is designed to develop the theoretical knowledge competencies and strategies needed by teachers and other curriculum developers at all levels of education to participate in the curriculum change process.

EDUC 8230 Curriculum Design and Evaluation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines multiple theoretical bases and practical processes by which curriculum planning, design and evaluation decisions can be made. Students will have an opportunity to devise and critique their own plans for developing curriculum projects using one or more of these planning perspectives and processes.

EDUC 8605 Critical Media Literacy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Critical Media Literacy examines the social, cultural, political, and economic forces that influence and are influenced by our media systems. This interdisciplinary course will situate media as a pedagogical location in the political economy, and therefore, examine the educative and mis-educative possibilities. This interdisciplinary course includes the following topics: the history of media, media ownership, identities negotiated through media, democracy and media, cultural intervention through media, rhetorical practices in media, audience studies, media production, digital media and the teaching and learning of media literacy.

EDUC 8632 Curriculum and Pedagogy for Social Justice
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This capstone course synthesizes theory and research for social justice and provides a framework within which students can demonstrate their abilities to conceptualize a social justice curriculum to apply to their specific teaching contexts. It provides a synthesis of social justice education concepts and places emphasis on students' abilities to develop theoretically sound and culturally sustaining curricula that are directly applicable to their diverse teaching contexts. Students who successfully complete this course will demonstrate sociopolitical consciousness in their curriculum development and will evidence through their curriculum design, an integrated understanding of the importance of community and other funds of knowledge, curricular knowledge, and ongoing professional development in fostering culturally sustaining and just curriculum and pedagogy for racially, culturally, socioeconomically, and linguistically diverse learners.

EDUC 8633 Social Justice Inquiry
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This capstone course provides a practical experience of exploring multiple forms of curriculum inquiries directly connected to personal and professional concerns in the daily realities the enrolled teachers encounter in schools, communities, and societies. It is an in-depth exploration of diversity and complexity of experience of individuals, groups, families, tribes, communities, and societies that are often at controversy, underrepresented, or misrepresented in the official narrative. The enrolled teachers will develop a plan of social justice inquiry that enables them to better understand and/or transform their teaching profession and work environments, and to envision curriculum inquiry innovations as ways to create equal opportunities to empower racially, culturally, socioeconomically, and linguistically diverse students to reach their highest potential in schools and societies.

EDUC 9130 Contemporary Curriculum Theorists**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced course in contemporary curriculum theorists in which students will explore the histories and the works of contemporary leaders in the field of curriculum studies. Students will be introduced to the leading edge of curriculum scholarship.

EDUC 9131 Inquiry and Development of Educational Practices**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide the doctoral candidates with a critical understanding of the diversity of roles of professionals in education. This course will focus on exploring the dimensions of inquiry as it supports, enhances, and strengthens the development of educational practice in a variety of settings. Doctoral candidates will develop the skills and competencies in the research and design of grant and presentation proposals, as well as in the reflective analysis of teaching and professional growth. Course will include a field component.

Prerequisite(s): Ed.D. admission.**EDUC 9132 Critical Reading in Curriculum****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced seminar for doctoral students offering an in-depth study of a specific topic in Curriculum Studies.

EDUC 9230 Power and Schooling**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores competing analysis of power and the relationships of these analysis to schooling. Topics include structural, poststructural, Marxist, neo-Weberian, feminist, conflict, and/or critical analysis of power and the process of schooling. Students will read both original writings and interpretive works addressing three or four major theoretical positions of the topic of power.

EDUC 9232 Forms of Curriculum Inquiry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of major research within the field of curriculum studies, along with an analysis of the varied forms of inquiry used in this research, including philosophical, practical, historical, empirical, theoretical, critical, deliberative and action inquiry, among others.

Prerequisite(s): EDUC 9631 and EDUF 9133.**EDUC 9233 Advanced Critical Pedagogy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course engages in critically examining the representations, ideologies, and power structures that influence teaching and learning in their disciplines and grade levels in the United States and globally, including elitism/classism, racism, sexism, homophobia, ableism, and colonialism/imperialism. Candidates will reflect on the relationships between school and society, particularly the ways that institutional forces impact teacher and student lives, influence choices about curriculum and instruction within specific disciplines, and shape the cultures of their classroom, school, and community.

Prerequisite(s): EDD admission.**EDUC 9630 Doctoral Writing Seminar I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to prepare students for the candidacy exam in four program areas: curriculum studies foundations, research and inquiry, curriculum and pedagogy, and an emphasis area.

EDUC 9631 Advanced Seminar in Curriculum Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of major curriculum theories, their adequacy and merit. These theories will be studied in their originator's own words from the writings of the theorists themselves.

EDUC 9632 Doctoral Writing Seminar II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed for doctoral students to write a draft of the dissertation pre-prospectus which includes diving into life and writing into contradictions in research phenomena; naming key research issues/questions/purposes; reflecting upon the autobiographical roots of inquiry; positioning research in theoretical, methodological, and social contexts/ contexts of study; reviewing related literature; building the research design [theoretical framework, descriptions of participants and research site(s), data collection/story gathering/composing field text, data management/organizing stories, data/narrative analysis, and data representation/composing research text based upon reachable stories and narrative analysis]; and defining the value: significance, challenges/limitations, implications, and future directions.

Prerequisite(s): A minimum grade of "C" in EDUR 9231.**EDUC 9633 Research Seminar in Curriculum Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explorations and independent research for students in the area of Curriculum Studies for students pursuing the Ed.D. in Curriculum Studies.

Prerequisite(s): Admission to EDD in Curriculum Studies.**EDUC 9636 Advanced Seminar in Forms of Curriculum Inquiry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an examination of contemporary research literature in curriculum studies and exploration of multiple forms of inquiry and modes of expression and representation within the field of curriculum studies and their potentials for the advancement of curriculum theory and practice in an increasingly diversifying and contested world, including philosophical, historical, empirical, theoretical, critical, multicultural/multilingual/multiracial, counternarrative, multiperspectival cultural studies, subaltern, indigenous, art-based, auto/biographical, documentary, oral history, speculative essay, fiction, story, play, poetry among others. This course will serve as a required advanced seminar for students to explore forms of curriculum inquiry and modes of expression and representation relevant to their dissertation research.

Prerequisite(s): A minimum grade of "C" in EDUC 9232 and EDUR 9232.**EDUC 9999 Dissertation****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Readings and research under the direction of a member of the education faculty whose interests coincide with those of the student.

Prerequisite(s): Admission to EDD Candidacy.

EDUF Educational Foundations

EDUF 1230 Education, Society and Learners**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Education of youth is one of the foremost responsibilities of any society and greatly impacts the future well being of the society. As a member of a society, an employer, a parent, a taxpayer, the future of our society depends upon the quality of the job done in the education of its youth. This course utilizes both psychological and sociological foundations of education to enable students to understand and participate in these important social and political debates.

EDUF 2090 Special Topics in Educational Foundations**3 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.**

Designed to provide specialized coursework to meet the needs of students. Attention will be directed toward a wide range of topics as they relate to education.

EDUF 2121 Human Growth and Dev
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

This course provides an introduction to the study of growth and development of the person from conception through adolescence. Particular aspects of development, such as physical, social/personality, emotional, intellectual, and moral development and the relationship of these aspects of development to learning and achievement in school will be addressed.

EDUF 3040 Childhood Development from Prenatal Period to Adolescence
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an introduction to the development of social, emotional, cognitive, language and physical processes from the prenatal period to adolescence. Emphasis will be placed on connecting theories, research and concepts to applied settings involving work with children.

EDUF 3131 Assessment for Differentiated Instruction
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The purpose of this course is to provide advanced preparation in a variety of evidence-based, best practice assessment techniques for differentiating learning. The course will provide pre-service P-5 teacher candidates with the knowledge and skills to create, implement and interpret developmentally appropriate valid and reliable traditional and alternative forms of assessment, as well as standardized assessments. Differentiation principles will be utilized for developing assessments, interpreting assessment data, and planning instruction.

Prerequisite(s): Admission to the Teacher Education Program.

EDUF 3232 Educational Psychology: General
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Students will examine psychological principles of learning, cognition, motivation, behavior and the practical implications of these principles for teaching, learning, and assessment. The development of skills to interpret behavior and classroom interaction within a framework of psychological theory will be a major feature of the course.

Prerequisite(s): Junior standing and admission to Teacher Education Program; completion of pre-professional block or equivalent.

EDUF 3234 Educational Psychology: Secondary Education
3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.

Examines psychological principles of learning, cognition, motivation, behavior and the practical implications of these principles for teaching, learning, and assessment. The development of skills to interpret behavior and classroom interaction within a framework of psychological theory will be a major feature of the course. Requires an additional lab component.

Prerequisite(s): Junior standing and admission to Teacher Education Program.

EDUF 5133 Assessment and Procedures for Teaching Gifted and Talented Learners
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course emphasizes research-based strategies for instruction and assessments to enhance gifted student performance. The course provides teachers of gifted learners ways to identify appropriate identification procedures for gifted learners, design, analyze, and use results from student assessments to diagnose problems, improve teaching, and to motivate gifted students' learning. Course participants will examine assessments tools, analyze districts' assessment and gifted eligibility requirements, and consider their uses and limitations for identifying individuals with exceptional learning needs, including students from diverse backgrounds. The course has a required field component.

Prerequisite(s): ESED 5130, ESED 5131, ESED 5132.

Cross Listing(s): EDUF 5133G.

EDUF 5201 Understanding the Context of Urban Education
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides students with an opportunity to engage in an exploration of the issues that affect urban education from multiple frames of reference. Students will read literature that will enable them to define urban education and enhance their understanding of the social, economic and political considerations that influence conditions in urban schools. Course readings will encourage students to engage in critical and reflective analyses of the practical and theoretical challenges in U.S. urban schools. Additionally, students will engage in site-based research experiences that will enable them to identify and address an urban education-related concern in a local urban school context.

Cross Listing(s): EDUF 5201G.

EDUF 5202 Culturally Relevant Curriculum and Pedagogy in Urban Schools
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides a framework that empowers candidates to demonstrate their abilities to conceptualize the principles of culturally relevant/responsive/sustaining curriculum and pedagogy and critically evaluate, develop, and implement such principles in teaching, learning, assessment and evaluation practices in urban schools.

Prerequisite(s): EDUF 5201.

Cross Listing(s): EDUF 5202G.

EDUF 5203 The City as Curriculum: Partnerships and Community Engagement in Urban Schools
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

In this course, students will examine ways to utilize the city's cultural, political and economic resources to develop meaningful bonds between the school, the teacher, the families, and the community. The student will identify educational and cultural sources beyond the school in order to forge partnerships for cultural understanding, political and economic empowerment, and the application of powerful literacy and numeracy.

Prerequisite(s): A minimum grade of "C" in EDUF 5201 and EDUF 5202.

Cross Listing(s): EDUF 5203G.

EDUF 5133G Assessment and Procedures for Teaching Gifted and Talented Learners
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course emphasizes research-based strategies for instruction and assessments to enhance gifted student performance. The course provides teachers of gifted learners ways to identify appropriate identification procedures for gifted learners, design, analyze, and use results from student assessments to diagnose problems, improve teaching, and to motivate gifted students' learning. Course participants will examine assessments tools, analyze districts' assessment and gifted eligibility requirements, and consider their uses and limitations for identifying individuals with exceptional learning needs, including students from diverse backgrounds. The course has a required field component. Graduate students will be provided additional assigned readings and assignments.

Prerequisite(s): A minimum grade of "B" in ESED 5130G and ESED 5131G and ESED 5132G.

Cross Listing(s): EDUF 5133.

EDUF 5201G Understanding the Context of Urban Education
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides students with an opportunity to engage in an exploration of the issues that affect urban education from multiple frames of reference. Students will read literature that will enable them to define urban education and enhance their understanding of the social, economic and political considerations that influence conditions in urban schools. Course readings will encourage students to engage in critical and reflective analyses of the practical and theoretical challenges in U.S. urban schools. Additionally, students will engage in site-based research experiences that will enable them to identify and address an urban education-related concern in a local urban school context. Graduate students will be required to complete additional and/or lengthier writing assignments.

Cross Listing(s): EDUF 5201.

EDUF 5202G Culturally Relevant Curriculum and Pedagogy in Urban Schools

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides a framework that empowers candidates to demonstrate their abilities to conceptualize the principles of culturally relevant/responsive/sustaining curriculum and pedagogy and critically evaluate, develop, and implement such principles in teaching, learning, assessment and evaluation practices in urban schools. Graduate students will be required to complete additional and/or lengthier writing assignments.

Prerequisite(s): EDUF 5201G.

Cross Listing(s): EDUF 5202.

EDUF 5203G The City as Curriculum: Partnerships and Community Engagement in Urban Schools

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

In this course, students will examine ways to utilize the city's cultural, political and economic resources to develop meaningful bonds between the school, the teacher, the families, and the community. The student will identify educational and cultural sources beyond the school in order to forge partnerships for cultural understanding, political and economic empowerment, and the application of powerful literacy and numeracy. Graduate students will be required to complete an additional writing assignment and/or lengthier writing assignments.

Prerequisite(s): A minimum grade of "C" in EDUF 5201G and EDUF 5202G.

Cross Listing(s): EDUF 5203.

EDUF 6235 Multicultural Elementary Education

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of multicultural education through a focus on the historical, sociological, and philosophical foundations of elementary education. Special emphasis is placed on the role of ethnicity in the development of the United States and its education system. Includes an overview of multicultural/multilingual curricula with a special focus on culturally/linguistically responsive instruction for elementary learners.

EDUF 7090 Selected Topics in Educational Foundations

1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Readings and research under the direction of a member of the educational foundations faculty whose interests coincide with those of the student.

EDUF 7130 Learning Theories and Applications

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the principles and theories of learning that serve as a basis for educational models, practice, and assessment. Special emphasis is given to recent empirical findings and to practical applications of theory to a variety of educational settings. This is a three credit hour class.

Cross Listing(s): FRLT 7130.

EDUF 7131 Assessment and Management of Elementary Learners
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Assessment and Management emphasizes research-based strategies for assessing student growth and promoting positive classroom environments to enhance student performance. The purpose of this class is to review the major principles of classroom assessment and classroom management, and to teach students to apply these principles in culturally and developmentally appropriate ways. The course provides instruction in identification and development of different forms of classroom assessment, development of learning targets with attention to curriculum alignment within school contexts, and promoting student engagement through the development of positive classroom environments to encourage student growth. The course provides teachers with ways to identify, design, analyze, and use results from student assessments to diagnose problems, improve teaching, and to enhance student learning in culturally responsive ways, as well as means to promote student engagement with a focus on treating students with dignity and respect and the effective use of prevention strategies. Helping future teachers come to understand how to maintain a successful classroom and create accurate assessments is central to their success in education.

EDUF 7132 Critical Approaches to Early Childhood Development and Learning and Practicum I

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Critical Approaches to Early Childhood Development and Learning examines classic and contemporary approaches to early childhood development and learning and their application in the learning environment. The purpose of this class is to examine the major principles associated with these theories and to teach students to apply these principles in culturally and developmentally appropriate ways. Students will begin the planning process as they research and report on the context for learning and learner characteristics and plan for learning experiences that address these characteristics. A field component will accompany this course.

EDUF 7133 Instruction-Based Assessment

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Instruction-based assessment emphasizes research-based strategies for assessing student learning. The purpose of this class is to review major principles of classroom assessment and data literacy. The course provides instruction in identification and development of different forms of classroom assessment and the development of learning targets with attention to curriculum alignment within school contexts. Classroom-based data are employed to diagnose learning difficulties, improve teaching, formulate effective instructional interventions, and measure student progress and change over time. This course facilitates need-based and developmentally appropriate approaches in relation to the scope and sequence of the curriculum.

EDUF 7134 Classroom Assessment and Data Literacy

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This courses emphasizes evidence-based strategies for measuring student progress and change over time and for using the data from these assessments. The course provides instruction in identification and development of different forms of classroom assessment and provides teachers with ways to identify, design, analyze, and use results from student assessments to diagnose problems, improve teaching, and to enhance student learning. The course will place a special emphasis on developing high-quality summative assessments, the interpretation and use of summative assessment data for instructional decision making and the interpretation of standardized assessment data.

EDUF 7140 Learning, Cognition, and Curriculum
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This three-hour course examines principles and theories of human cognitive processes on education and determines how this knowledge can be best applied to the development of skills for instruction and assessment of students. Individuals will explore political, social, economic, and cultural contexts of monitoring and evaluating the implementation of a standards-based curriculum and develop an understanding of transformative curriculum leadership that empowers teachers and helps them to accomplish emancipatory teaching and learning.

EDUF 7150 Learning Theories and Assessment
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the principles and theories of learning that serve as a basis for educational models, practice, and assessment. Special emphasis is given to recent empirical findings and to practical applications of theory to assessment in elementary school settings. Learning theories and assessment practices are integrated to teach students to make informed instructional decisions and enhance student learning. The course focuses on the application of content to authentic learning experiences in elementary school classrooms.

EDUF 7230 Understanding Diverse Students through Case Study
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course utilizes case study approach to enhance educator's understandings of the assets and needs of the culturally and linguistically diverse students with whom they work. A series of lessons will be developed and implemented to connect findings from the case study to current research.

Prerequisite(s): Admission to College of Education Graduate Program.

EDUF 7233 School and Society
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the contributions of the social sciences to debates about the interrelated nature of school and society. Focuses particularly on a theoretical examination of the purposes of education and schooling in a democratic society.

EDUF 7235 Multicultural Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Using an interdisciplinary approach, this seminar investigates underlying theoretical concepts and social assumptions that both inform and impede efforts in multicultural education.

EDUF 8130 Advanced Study of Learning Theories and Applications
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The purpose of EDUF 8130 is to provide Ed.D. students with an in-depth, comprehensive understanding of traditional and contemporary theories of learning and how they inform pedagogical practice in educational settings. Students will read about and critically evaluate theories pertaining to a number of topics, such as biological and sociocultural influences on learning; motivation and self-regulation in learning; and developmental and individual differences impacting the learning process. In addition, students will examine instructional strategies and practices that derive from these perspectives, as well as research findings investigating their effectiveness for different populations of learners.

EDUF 8131 Theories of Adolescence
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The rapidly changing world of today's adolescents and the ever-changing nature of the field of adolescence will be examined from three perspectives: theory, research and contemporary social forces. This course will be eclectic in its orientation. Rather than adopting one theoretical position, various views will be discussed. Similarities and differences among theories will be examined, in addition to an analysis of strengths, weaknesses, and contributions of each, as well as the implications for educating, guiding and working with adolescents.

EDUF 8133 Interaction and Learning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examine views of learning which emphasize the importance of interaction, authenticity and the social construction of knowledge. Students will also explore instructional practices and assessment issues consistent with these perspectives. Relevant theories, research, and practical implications will be examined for each perspective addressed. Perspectives and practices which will be explored may include, but are not limited to, constructivism, situated cognition, the social formation of mind, cooperative learning, and authentic assessment.

EDUF 8134 Models of Motivation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Critically examines how contemporary models of motivation are utilized to improve the delivery of instruction. Special emphasis is placed on the theoretical principles, empirical research and educational strategies involved in the design and implementation of motivational models.

EDUF 8135 Thinking and Problem Solving
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines current conceptions and models of critical thinking and creative problem solving as they relate to learning and instruction. Emphasis will be given to how instructional practices can positively affect students' thinking skills and dispositions for learning and to methods designed to increase students' awareness and control of their thinking processes. In addition, the course will evaluate the effectiveness of current programs designed to teach critical thinking and problem solving strategies across the curriculum and within specific content areas.

EDUF 8136 Theories of Human Development
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines theories of human development, with a focus on infancy to adolescence. Major theoretical perspectives pertaining to several aspects of development, such as cognitive, social, moral, emotional and personality development, will be considered. In addition, students will gain an understanding of the value of theories in general, as well as the particular characteristics of a good theory, in order to critically evaluate these theories in light of empirical research evidence.

EDUF 8231 Global Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on the analysis of theories and practices of transformative educational reforms and changes in various countries in the era of globalization, cultural interrelatedness, and interdependence of the world.

Prerequisite(s): A minimum grade of "C" in EDUF 7235.

EDUF 8233 Regional Issues In Multicultural Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This field based course will involve students in researching the local multicultural educational needs, issues, and problems and developing strategies for constructing a pluralistic and culture-tolerant environment in the schools and/or communities of the region.

Prerequisite(s): A minimum grade of "C" in EDUF 7235.

EDUF 8236 International Study of Educational Practices
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course offers students the opportunity to examine educational practices of another country through travel abroad, involvement in international initiatives, and/or use of technology. Students will be asked to reflect on the American educational system -- theoretical perspectives, curriculum, instructional methodologies, and comparative issues and trends -- to compare and contrast it with another country's educational system. Topics will be investigated through selected readings, observations, participation, and discussions.

EDUF 8631 Foundations for Social Justice Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a sustained inquiry into the historical and theoretical foundations of social justice education with a focus on connections between those foundations and contemporary struggles to overcome educational inequities. This course provides students with opportunities to learn about and reflect on theories and concepts related to social justice education and the application of social justice praxis within formal and informal educational contexts. A main objective of this course is to provide students with an accessible framework through which they can understand and disrupt interlocking systems of oppression and injustice within and beyond the formal educational environment that negatively impact the educational experiences and outcomes of racially, culturally, socioeconomically, and linguistically diverse learners.

EDUF 8831 Philosophies of Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students study the major philosophical schools of thought which inform all educational activities. Particular attention is given both to current and historical writings, and the relationship of philosophical assumptions to current practices in the process of schooling.

EDUF 8890 Directed Individual Study in Educational Foundations 1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Readings and research under the direction of a member of the educational research faculty whose interests coincide with those of the student.

Prerequisite(s): EDUF 8831 or permission of instructor.**EDUF 9131 Ethical Dimensions of Education****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Develops an understanding of ethical obligations and considerations within the field of education through case studies immediately applicable to their professional lives. Students will explore traditional ethical systems, such as Consequentialism and Situationalism, as well as more contemporary perspectives including those of equity and technology.

Prerequisite(s): EDUF 8831.**EDUF 9132 History of American Curriculum****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced course in curriculum studies designed to provide an in-depth analysis of the major historical curriculum documents, trends and reform movements that have given form and shape to the American public school curriculum. Special emphasis will be given to the interpretation and critique of the competing curriculum discourses, especially as they appear in primary source historical curriculum documents, state/local curriculum guidelines and textbooks.

EDUF 9133 Theories of Educational Inquiry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced seminar in the field of curriculum investigating the major paradigms within which the competing methodologies of empirical educational inquiry are grounded and the epistemological and ethical issues involved in conducting research within each paradigm.

Prerequisite(s): EDD admission.**EDUF 9234 History of American Education****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the social, political, economic and ideological forces that have shaped the growth and development of the American public school system from colonial times to the present. A special emphasis will be an analysis and critique of the purpose, structure, function and results of the various school reform movements in American history.

EDUF 9631 Seminar in Cultural Studies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This advanced seminar investigates contemporary questions and movements in the field of cultural studies.

Prerequisite(s): EDUF 7235.

EDUR Educational Research

EDUR 3130 Introduction to Research Methods in Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an undergraduate introductory course in educational research. Research designs, methods and applications of research specific to investigations while working in schools will be explored. Practical informal and formal data collection approaches are assigned to illustrate techniques teachers use when compiling data to inform their practice.

EDUR 7090 Selected Topics in Educational Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Readings and research under the direction of a member of the educational research faculty whose interests coincide with those of the student.

Prerequisite(s): Permission of Instructor.**EDUR 7130 Educational Research****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A comprehensive overview of topics related to research as it is applied to educational settings. Emphasis is placed upon methods of quantitative and qualitative research, especially in regard to applied and basic research in education.

Cross Listing(s): FRER 7130.**EDUR 7140 Action Research in Elementary Settings****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a graduate-level survey of action research methods with an emphasis on fundamental comprehension of educational research for ready application and transfer to elementary education settings.

EDUR 7999 Thesis/Research Project**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Requires completion of an independent research project on topic approved by faculty advisor/committee.

Prerequisite(s): Permission of instructor.**EDUR 8090 Selected Topics in Educational Research****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In-depth examination of selected topics related to educational research not generally offered by the department. Topics will vary, and course may be repeated as topics change.

Prerequisite(s): Permission of Instructor.**EDUR 8131 Educational Statistics I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics covered in this course include central tendency, variability, distributions, correlation, significance testing, t-tests, linear regression and chi-square analysis. Emphasis is placed on application of statistics in educational research situations.

Prerequisite: EDUR 7130 or equivalent or permission of instructor.**EDUR 8132 Educational Statistics II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is an advanced statistics in education course that extends knowledge of educational research situations and statistical procedures beyond EDUR 8131. Emphasis is placed on more complex analysis of variance procedures and multiple regression analysis as applicable to current educational research problems.

Prerequisite(s): A minimum grade of "B" in EDUR 8131.**EDUR 8231 Applied Qualitative Research Methods****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide practical experience applying qualitative research methods in a variety of settings. Topics addressed in the course include selecting participants, conducting observations, creating descriptive field notes, interviewing techniques, analyzing qualitative data, and writing qualitative reports.

Prerequisite(s): A minimum grade of "C" in EDUR 7130 .

EDUR 8331 Applied Measurement**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide an introduction to concepts and practices in measurement and survey research. Practical applications of measurement – such as interpreting standardized test scores, constructing and administering tests and questionnaires, and producing evidence for validity and reliability – will be included.

Prerequisite(s): A minimum grade of "C" in EDUR 7130 and EDUR 8131.

EDUR 8434 Field-Based Educational Research**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed primarily to assist Ed. S. level students in developing a sound research proposal for the conduct of an independent research project required as part of their Ed.S. program.

Prerequisite(s): Minimum grade of "C" in EDUR 8131 and submission of a signed topic approval form.

EDUR 8530 Introduction to Mixed Methods Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides a broad introduction to mixed methods research, including the characteristics of and reasons for using this approach, how to mix multiple approaches (e.g., qualitative and quantitative), and how to evaluate mixed methods studies. Particular emphasis is placed on mixing (also known as integrating) multiple approaches and engaging in applied activities.

Prerequisite(s): A minimum grade of "C" in EDUR 7130 (or equivalent course).

EDUR 8890 Directed Individual Study**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Readings and research under the direction of a member of the educational research faculty whose interests coincide with those of the student.

EDUR 9131 Doctoral Research Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The purpose of this course is for doctoral-level students to gain a firm foundation in educational research prior to enrollment in the more specialized courses in quantitative methods. Students engage in an applied research project that updates their understanding of research procedures (hypothesis generation, sampling theory, instrument construction, measurement concepts and descriptive and inferential statistics). Emphasis is on the "hands-on" application of advanced inquiry skills.

Prerequisite(s): Minimum grade of "C" in EDUR 7130 and EDUR 8131.

EDUR 9231 Qualitative Research in Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines a broad survey of major styles of qualitative/ descriptive research, as well as attention to the major field work techniques and problems associated with conducting qualitative research.

Prerequisite(s): Minimum grade of "C" in EDUR 7130.

EDUR 9232 Advanced Qualitative Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced graduate level course in qualitative data analysis for educational research which includes an in-depth treatment of the analytical approaches for each of the major traditions in qualitative research as well as the technologies used to assist in analysis.

Prerequisite(s): Minimum grade of "B" in EDUR 9231.

EELE Early Elementary Edu

EELE 7990 Special Topics Elem Education**1-6 Credit Hours. 1-6 Lecture Hours. 1-6 Lab Hours.**

This course is designed to promote specialized training appropriate to the needs of in-service school personnel. Topics will vary based upon their significance to local school systems.

EENG Electrical Engineering

EENG 3230 Electromagnetic Fields**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of electromagnetic fields theory and applications including Coulomb's law, Gauss' law, Divergence Theorem, potentials, polarizations, conductance, capacitances, boundary conditions, Ampere's law, Biot savart law, Faraday's law, Maxwell's equations, uniform plane, and wave propagation.

Prerequisite(s): A minimum grade of "C" in MATH 2243 and prior or concurrent enrollment in ENGR 2334.

EENG 3241 Electric Machines w/Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

The concepts of electric machines and their operational characteristics are covered with emphasis on different types of DC/AC motors and generators including single-phase and three-phase transformers. The course also includes laboratory activities in support of instruction.

Prerequisite(s): A minimum grade of "C" in EENG 3230 and EENG 3345.

EENG 3337 Power Systems Fundamentals**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to introduce students to the basic concepts of electric power systems. Single-phase and 3-phase networks, electric power generation, transformers, transmission lines, and power flow analysis including stability and fault analysis are thoroughly covered. Additional topics dealing with conventional energy sources, electricity market, and regulations affecting the power sector are introduced and discussed. Students are expected to perform power flow simulations using Power World Software and/or other professional programming tools for power system studies.

Prerequisite(s): A minimum grade of "C" in EENG 3241.

EENG 3340 Microcontrollers with Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

Fundamental concepts of microcontroller architecture, including the Central Processing Unit (CPU), memory devices (ROM & RAM), Input/output peripheral devices and sensor interfacing. Students learn to write programs in C and Assembly languages used to implement real practical applications using microprocessors. The course includes laboratory activities in support of instruction.

Prerequisite(s): A minimum grade of "C" in ENGR 1732 and ENGR 2323.

EENG 3341 Microelectronics with Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

A study of the characteristics and design of bipolar junction and metal oxide semiconductor integrated circuit devices with emphasis on commercial and industrial applications including operational amplifiers, digital logic, and solid state memory.

Prerequisite(s): A minimum grade of "C" in EENG 3345 and CHEM 1310 or equivalent.

EENG 3345 Circuit Analysis II with Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

The course focuses on advanced topics in circuit analysis and design. Topics include Phasor analysis, three-phase systems, AC steady-state power, transformers, transfer functions, Bode plots, passive and active filters, Laplace and Fourier transforms, and two-port networks.

Prerequisite(s): A minimum grade of "C" in ENGR 2334.

EENG 3420 Linear Systems**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The mathematical foundations and modeling techniques to solve linear systems are covered in this course. Topics include vectors and matrices, eigenvalues and eigenvectors, Fourier series, Fourier transform, Laplace transform, and Z-transform. Several engineering applications in control and communication systems are provided.

Prerequisite(s): A minimum grade of "C" in MATH 3230 and prior or concurrent enrollment in EENG 3345.

EENG 3421 Advanced Engineering Analysis**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course offers introduction to the basic concepts of probability within engineering systems such as discrete and continuous random variables and their properties. This course also introduces the basic concepts of statistics and design of experiments such as randomization, replication, blocking, hypothesis Testing, Z-test, t-test, ANOVA, pair-wise comparisons, and randomized complete block designs. Matlab and Minitab software are used to support instruction.

Prerequisite(s): A minimum grade of "C" in MATH 2242.

EENG 4640 Electrical and Computer Engineering Senior Capstone Design**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course involves the development of an electrical or computer engineering capstone project with emphasis on project research, design and development under real engineering constraints. Topics include background and state-of-the-art research of the particular projects, tasks scheduling, project management, and research of ethical, environmental and sustainability issues related to the project. Students are required to work in teams, conduct research, develop the project design, testing and implementation under the direction of a faculty advisor.

Prerequisites: A minimum grade of "C" in (CSCI 3232 and EENG 3341 and EENG 5342) or (EENG 3340 and EENG 5431 and prior or concurrent enrollment in EENG 5540).

EENG 4890 Directed Study in Electrical and Computer Engineering**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

An individualized study involving research and applications pertaining to Electrical Engineering or Computer Engineering.

Prerequisite(s): Prior study form as approved by instructor.

EENG 5090 Selected Topics in Electrical and Computer Engineering**1-4 Credit Hours. 0-3 Lecture Hours. 0-6 Lab Hours.**

Students in this course will have the opportunity to study selected topics in Electrical Engineering or Computer Engineering not currently offered by these programs.

Prerequisite(s): Permission of Instructor.

Cross Listing(s): EENG 5090G.

EENG 5234 Nuclear Power System Fundamentals**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the basic principles, technologies, and components of nuclear power systems. It provides a broad scientific and technological understanding of nuclear energy and the nuclear fuel cycle, understanding of economic, environmental, and political issues that influence the nuclear fuel cycle. This course focuses on nuclear power systems from an electrical power utility perspective with many of the topics applicable to other large commercial and industrial power systems.

Prerequisite(s): A minimum grade of "C" in EENG 3241 or EENG 3337.

Cross Listing(s): EENG 5234G.

EENG 5235 Converters Control Techniques**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course presents the techniques required for analyzing power electronic converters, modeling their dynamics, and designing and synthesizing various types of controllers for them, employed explicitly in multi-terminal, hybrid ac/dc, smart grids, and their real-time implementation in digital real-time simulation platforms.

Prerequisite(s): A minimum grade of "C" in EENG 3337 and EENG 3420 and prior or concurrent enrollment in EENG 5431.

Cross Listing(s): EENG 5235G.

EENG 5242 Power Systems Protection with Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course offers a comprehensive study of methods and devices used in power system protection including relay types, responses, pilot wire, carrier systems, transmission lines, transformers, machines protection, and modern trends in protection technology. This course will review the need for protection of power system elements and explore the development and regulations of smarter, more flexible protective systems applied to modern power grids. Students will learn the trade-offs between reliability, selectivity, speed, simplicity, and economy using real-world case studies. A hands-on lab project, using state of the art equipment, will also be completed during the course.

Prerequisite(s): A minimum grade of "C" in EENG 3337 or Permission of Instructor.

Cross Listing(s): EENG 5242G.

EENG 5243 Power Electronics with Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course provides a basic knowledge of power Electronics device characteristics and circuits for the control and conversion of electrical power with high efficiency. These converters can change and regulate the voltage, current, or power. Students will study the principles of static power conversions, PWM techniques for voltage and frequency control, circuit design considerations, and applications of power electronics.

Prerequisite(s): A minimum grade of "C" in EENG 3241 and EENG 3341.

Cross Listing(s): EENG 5243G.

EENG 5244 Smart Grids Technology Fundamentals with Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course introduces new topics related to distributed generation, micro-grids, renewable energy sources, and smart home applications. Topics covered include design, modeling, control, and analysis to provide a working knowledge of smart-grid systems. Concepts dealing with computational intelligence, decision support systems, smart metering, optimization, and renewable energy sources are presented and discussed. The laboratory component will provide students with hands-on experience in the utilization of smart-grid technologies and equipment.

Prerequisite(s): A minimum of "C" and prior or concurrent enrollment in EENG 3337 or permission of instructor.

Cross Listing(s): EENG 5244G.

EENG 5330 Network Architecture and Protocols**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to Network architecture and protocol layering. Network design principles, communication protocols, and performance measures. Socket programming, routing, error detection and correction, access control, multimedia networking.

Prerequisite(s): A minimum grade of "C" in EENG 3421 and prior or concurrent enrollment in EENG 5342 or EENG 5540.

Cross Listing(s): EENG 5330G.

EENG 5341 Robotic Systems Design with Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

The principles of robotics are introduced with emphasis on mobile robots and applications. Topics include robot mechanical base design, motor control, sensor interfacing, robot navigation techniques and path planning. Students will work in teams to design and build mobile robotic systems for different applications. The course also includes laboratory activities in support of instruction.

Prerequisite(s): A minimum grade of "C" in (EENG 3340 and EENG 3341) or MENG 3521 or Permission of Instructor.

Cross Listing(s): EENG 5341G.

EENG 5342 Computer Systems Design with Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

Digital computers with emphasis on design and simulation are covered including instruction set design, processor implementation, pipelining, cache design, memory hierarchy, and input/output. The course also includes laboratory activities in support of instruction.

Prerequisite(s): A minimum grade of "C" in EENG 3340 or Permission of Instructor.

Cross Listing(s): EENG 5342G.

EENG 5431 Control Systems with Lab
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

Introduction to classical control theory and applications is presented with emphasis on feedback and its properties including the concept of stability, stability margins, and the different tools that can be used to analyze the system properties. Students will develop a working knowledge of the basic elements of linear control techniques. The course also includes laboratory activities in support of instruction.

Prerequisite(s): A minimum grade of "C" in EENG 3420 or Permission of Instructor.

Cross Listing(s): EENG 5431G.

EENG 5432 Programmable Logic Controllers with Lab
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

Topics covered include sequential programmable logic controllers (PLC's) with emphasis on ladder diagrams, input/output devices, networking, and programming design through advanced functions. The course also includes laboratory activities in support of instruction.

Prerequisite(s): A minimum grade of "C" in ENGR 2323 and EENG 3341.

Cross Listing(s): EENG 5432G.

EENG 5433 Machine Learning and Adaptive Control
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Machine Learning is one of the most widely applied technical fields in the academia and industry. The class covers fundamental algorithms in machine learning including linear regression, classification, neural networks, support vector machines, clustering, and introduction to reinforcement learning. This course also covers adaptive control algorithms: including direct and indirect adaptive control. Electrical Engineering applications are demonstrated in image processing, autonomous driving, and robotics.

Prerequisite(s): A minimum grade of "C" in EENG 3421 and prior or concurrent enrollment in EENG 5431.

Cross Listing(s): EENG 5433G.

EENG 5434 Engineering Optimization Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course introduces the students to practical optimization methods for solving real-world applications and preparing them for a career in academia and industry. Topics to be covered include linear programming, unconstrained optimization, convex optimization, dynamic programming, and their applications to multiple electrical engineering systems.

Prerequisite(s): A minimum grade of "C" in EENG 3420 and prior or concurrent enrollment in EENG 5540.

Cross Listing(s): EENG 5434G.

EENG 5532 Wireless Communications
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The concepts and techniques of wireless communication systems are covered in this course including propagation channels, communication link analysis, transceivers, signal processing, and multiple access schemes.

Prerequisite(s): A minimum grade of "C" in EENG 5540 and EENG 3230 or Permission of Instructor.

Cross Listing(s): EENG 5532G.

EENG 5533 Optical Fiber Communications
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course offers introduction to the physics of optical fiber communication components and the applications to communication systems. Topics include light and its behavior in the fiber, fiber attenuation, dispersion and nonlinear effects, laser modulation, photo detection and noise, receiver design, bit error rate calculations, and coherent communications.

Prerequisite(s): A minimum grade of "C" in EENG 5540 or Permission of Instructor.

Cross Listing(s): EENG 5533G.

EENG 5535 Electronic Warfare
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers the fundamental materials of electronic warfare (EW) including basic mathematical /physical concepts of EW, antenna parameters, various types of antennas, aperture, phased arrays, radar system, radar range resolution, radars range equations, radar wave equation, radar cross section (RCS), propagation, LPI signals, jamming, decoys, and simulation with CST and FEKO software.

Prerequisite(s): A minimum grade of "C" in EENG 3230 and ENGR 2341.

Cross Listing(s): EENG 5535G.

EENG 5538 Cybersecurity for Networked Electrical and Electronics Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to introduce emerging topics related to cybersecurity for networked electrical & electronics systems and cyber-physical systems. The course will provide theoretical understanding and practical basis of cybersecurity for networked systems including Shannon's secrecy system, information-theoretic security, wiretrap channels, cyber-attacks on electrical and electronics systems (smart power grid, embedded systems, connected electric vehicles, space communications, etc.), general cybersecurity models, jamming and antijamming, broadcast/interference channels cooperative secrecy, interference and broadcast channel with confidential messages, cooperative secrecy, and security limits of Gaussian and wireless channels.

Prerequisite(s): A minimum grade of "C" in all of the following: ENGR 2332 and EENG 3421 or CSCI 5332 or IT 5434 or permission of instructor.

Cross Listing(s): EENG 5538G.

EENG 5540 Communication Systems with Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

The theory and principles of communication systems are presented in this course. Topics covered include AM, FM, and PM modulation/demodulation, transmission and reception, noise and random processes, pulse modulation, and digital transmission techniques. Laboratory emphasizes hands-on modeling of modulation and demodulation techniques.

Prerequisite(s): A minimum grade of "C" in EENG 3341 and prior or concurrent enrollment in EENG 3421.

Cross Listing(s): EENG 5540G.

EENG 5541 Digital Communications with Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

Theory and applications of digital communications systems are covered. Topics include ASK, FSK, DPSK, QAM, signaling over AWGN, bandlimited and fading channels, inter-symbol interference, and error-correction codes. The course also includes hands-on laboratory activities in support of instruction.

Prerequisite(s): A minimum grade of "C" in EENG 5540 or Permission of Instructor.

Cross Listing(s): EENG 5541G.

EENG 5543 Antennas and Wireless Propagation with Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course introduces basic concepts of dipoles and monopoles, solution to radiation problems, antenna parameters, different types of antennas, antenna aperture/array theory, radio wave propagation, impact of antenna performance in communication links. The course also includes laboratory activities in support of instruction.

Prerequisite(s): A minimum grade of "C" in EENG 3230.

Cross Listing(s): EENG 5543G.

EENG 5891 Special Problems in Electrical and Computer Engineering

3 Credit Hours. 0-3 Lecture Hours. 0-2 Lab Hours.

This course provides for specialized study in the area of Electrical and Computer Engineering not currently offered by these programs.

Prerequisite(s): As determined by Instructor.

Cross Listing(s): EENG 5891G.

EENG 5090G Selected Topics in Electrical and Computer Engineering

4 Credit Hours. 0-3 Lecture Hours. 0-6 Lab Hours.

Students in this course will have the opportunity to study selected topics in Electrical or Computer Engineering not currently offered by these programs. Graduate students will be required to complete additional assignments and a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): Permission of Instructor.

Cross Listing(s): EENG 5090.

EENG 5234G Nuclear Power System Fundamentals
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces the basic principles, technologies and components of nuclear power systems. It provides a broad scientific and technological understanding of nuclear energy and the nuclear fuel cycle, understanding of economic, environmental, and political issues that influence the nuclear fuel cycle. This course focuses on nuclear power systems from an electrical power utility perspective with many of the topics applicable to other large commercial and industrial power systems.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in EENG 3337 or permission of instructor.

Cross Listing(s): EENG 5234.

EENG 5235G Converters Control Techniques
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course presents the techniques required for analyzing power electronic converters, modeling their dynamics, and designing and synthesizing various types of controllers for them, employed explicitly in multi-terminal, hybrid ac/dc, smart grids, and their real-time implementation in digital real-time simulation platforms. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 3337 and EENG 3420 and prior or concurrent enrollment in EENG 5431 or permission of instructor.

Cross Listing(s): EENG 5235.

EENG 5242G Power System Protection w/Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course offers a comprehensive study of methods and devices used in power system protection including relay types, responses, pilot wire, carrier systems, transmission lines, transformers, machines protection, and modern trends in protection technology. This course will review the need for protection of power system elements and explore the development and regulations of smarter, more flexible protective systems applied to modern power grids. Students will learn the trade-offs between reliability, selectivity, speed, simplicity, and economy using real-world case studies. A hands-on lab project, using state of the art equipment, will also be completed during the course. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in EENG 3337 or Permission of Instructor.

Cross Listing(s): EENG 5242.

EENG 5243G Power Electronics w/Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course provides a basic knowledge of power Electronics device characteristics and circuits for the control and conversion of electrical power with high efficiency. These converters can change and regulate the voltage, current, or power; dc-dc converters, ac-dc uncontrolled and phase-controlled rectifier circuits, dc-ac inverters, and ac-ac cyclo converters. Students will study the principles of static power conversions, PWM techniques for voltage and frequency control, circuit design considerations, and applications of power electronics. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 3241 and EENG 3341.

Cross Listing(s): EENG 5243.

EENG 5244G Smart Grids Technology Fundamentals w/Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course introduces new topics related to distributed generation, micro-grids, renewable energy sources, and smart homes applications. Topics covered include design, modeling, control, and analysis to provide a working knowledge of smart-grid systems. Concepts dealing with computational intelligence, decision support systems, smart metering, optimization, and renewable energy sources are presented and discussed. The laboratory component will provide students with hands-on experience in the utilization of smart-grid technologies and equipment. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in EENG 3337 or permission of instructor.

Cross Listing(s): EENG 5244.

EENG 5330G Network Architecture and Protocols
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to Network architecture and protocol layering. Network design principles, communication protocols, and performance measures. Socket programming, routing, error detection and correction, access control, multimedia networking. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 3421 and prior or concurrent enrollment in EENG 5342 or EENG 5540 or permission of instructor.

Cross Listing(s): EENG 5330.

**EENG 5341G Robotic Systems Design w/Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

The basic elements of robotics are introduced with emphasis on mobile robots and applications. Topics include coordinate transformations, sensors, path planning, kinematics, effectors, and control. Students will work in teams to design and build increasingly complex robotic systems. The course also includes laboratory activities in support of instruction. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 3340 and EENG 3341 or MENG 3521 or Permission of Instructor.

Cross Listing(s): EENG 5341.

**EENG 5342G Computer Systems Design w/Lab
4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

Digital computers with emphasis on design and simulation are covered including instruction set design, processor implementation, pipelining, cache design, memory hierarchy, and input/output. The course also includes laboratory activities in support of instruction. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 3340 or Permission of Instructor.

Cross Listing(s): EENG 5342.

**EENG 5431G Control Systems with Lab
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Introduction to classical control theory and applications is presented with emphasis on feedback and its properties including the concept of stability, stability margins, and the different tools that can be used to analyze the system properties. Students will develop a working knowledge of the basic elements of linear control techniques. The course also includes laboratory activities in support of instruction. Graduate students will be required to complete an individual research project not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in EENG 3420 or Permission of Instructor.

Cross Listing(s): EENG 5431.

**EENG 5432G Programmable Logic Controllers w/Lab
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Topics covered include sequential programmable logic controllers (PLC's) with emphasis on ladder diagrams, input/output devices, networking, and programming design through advanced functions. The course also includes laboratory activities in support of instruction. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 3241 or MENG 3521 or Permission of Instructor.

Cross Listing(s): EENG 5432.

**EENG 5433G Machine Learning and Adaptive Control
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Machine Learning is one of the most widely applied technical fields in the academia and industry. The class covers fundamental algorithms in machine learning including linear regression, classification, neural networks, support vector machines, clustering, and introduction to reinforcement learning. This course also covers adaptive control algorithms: including direct and indirect adaptive control. Electrical Engineering applications are demonstrated in image processing, autonomous driving, and robotics. Graduate students will be required to complete additional assignments and/or a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in EENG 3421 and prior or concurrent in EENG 5431, or permission of instructor.

Cross Listing(s): EENG 5433.

**EENG 5434G Engineering Optimization Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course introduces the students to practical optimization methods for solving real-world applications and preparing them for a career in academia and industry. Topics to be covered include linear programming, unconstrained optimization, convex optimization, dynamic programming, and their applications to multiple electrical engineering systems. Graduate students will be required to complete additional assignments and/or a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in EENG 3420 and prior or concurrent enrollment in EENG 5540.

**EENG 5532G Wireless Communications
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The concepts and techniques of wireless communication systems are covered in this course including propagation channels, communication link analysis, transceivers, signal processing, and multiple access schemes. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 3230 and EENG 5540 or Permission of Instructor.

Cross Listing(s): EENG 5532.

**EENG 5533G Optical Fiber Communications
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course offers an introduction to the physics of optical fiber communication components and the applications to communication systems. Topics include light and its behavior in the fiber, fiber attenuation, dispersion and nonlinear effects, laser modulation, photo detection and noise, receiver design, bit error rate calculations, and coherent communications. Graduate students will be required to complete an individual research project not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in EENG 5540 or Permission of Instructor.

Cross Listing(s): EENG 5533.

**EENG 5535G Electronic Warfare
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers the fundamental materials of electronic warfare (EW) including basic mathematical /physical concepts of EW, antenna parameters, various types of antennas, aperture, phased arrays, radar system, radar range resolution, radars range equations, radar wave equation, radar cross section (RCS), propagation, LPI signals, jamming, decoys, and simulation with CST and FEKO software. Graduate students will be required to complete additional assignments and/or a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in EENG 3230 and ENGR 2341.

Cross Listing(s): EENG 5535.

EENG 5538G Cybersecurity for Networked Electrical and Electronics Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to introduce emerging topics related to cybersecurity for networked electrical & electronics systems and cyber-physical systems. The course will provide theoretical understanding and practical basis of cybersecurity for networked systems including Shannon's secrecy system, information-theoretic security, wiretrap channels, cyber-attacks on electrical and electronics systems (smart power grid, embedded systems, connected electric vehicles, space communications, etc.), general cybersecurity models, jamming and antijamming, broadcast/interference channels cooperative secrecy, interference and broadcast channel with confidential messages, cooperative secrecy, and security limits of Gaussian and wireless channels. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in ENGR 2332 and EENG 3421 or CSCI 5332 or IT 5434.

Cross Listing(s): EENG 5538.

EENG 5540G Communication Systems with Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

The theory and principles of communication systems are presented in this course. Topics covered include AM, FM, and PM modulation/demodulation, transmission and reception, noise and random processes, pulse modulation, and digital transmission techniques. Laboratory emphasizes hands-on modeling of modulation and demodulation techniques. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 3341 and prior or concurrent enrollment in EENG 3421 or permission of instructor.

Cross Listing(s): EENG 5540.

EENG 5541G Digital Communications w/Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

Theory and applications of digital communications systems are covered. Topics include ASK, FSK, DPSK, QAM, signaling over AWGN, bandlimited and fading channels, inter-symbol interference, and error-correction codes. The course also includes hands-on laboratory activities in support of instruction. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): A minimum grade of "C" in EENG 5540 or Permission of Instructor.

Cross Listing(s): EENG 5541.

EENG 5543G Antennas and Wireless Propagation with Lab**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course introduces basic concepts of dipoles and monopoles, solution to radiation problems, antenna parameters, different types of antennas, antenna aperture/array theory, radio wave propagation, and impact of antenna performance in communication links. The course also includes laboratory activities in support of instruction. Graduate students will be required to complete additional assignments and/or a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in EENG 3230 or Permission of Instructor.

Cross Listing(s): EENG 5543.

EENG 5891G Special Problems in Electrical and Computer Engineering**3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course provides for specialized study in the area of Electrical and Computer Engineering not currently offered by these programs. Graduate students will complete an independent research project which involves a written and oral presentation not required at the undergraduate level.

Prerequisite(s): As determined by Instructor.

Cross Listing(s): EENG 5891.

EENG 7330 Advanced Electromagnetics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces fundamental concepts of wave propagation, polarization, radiation from sources, guided waves, transmission lines, smith charts, and numerical calculation techniques such as Finite-Difference Time-Domain (FDTD) method. The course includes research project activities.

Prerequisite(s): A minimum grade of "C" in EENG 3230 or Permission of Instructor.

EENG 7331 Advanced Digital Signal Processing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course discusses advanced topics in digital signal processing such as implementation of discrete-time systems, design of FIR/IIR digital filters, sampling and reconstruction of signals, multi-rate digital signal processing, linear prediction and optimum linear filters, and power spectrum estimation.

Prerequisite(s): A minimum grade of "C" in ENGR 2341 or Permission of Instructor.

EENG 7332 Digital Control Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An understanding of the elements of digital control theory will be developed. Students will be introduced to discrete system modeling, sampled data systems, z-transforms, state-space system representation and discrete control designs. Advance topics include Neural Networks and Fuzzy Logic application to control and the use of software tools that can be used to design and analyze this kind of systems. Students will also develop practical applications of digital control systems.

Prerequisite(s): A minimum grade of "C" in EENG 5431 or MENG 5536 or Permission of Instructor.

EENG 7333 Advanced Power Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course discusses advanced techniques required for analyzing power systems, modeling their circuits and dynamics, designing and synthesizing various types of controls for such systems, state estimation, and their real-time implementation on digital real-time simulation platforms. In this course, unbalanced power systems are fully considered and analyzed using different approaches. This course requires students to work on related projects assigned by the instructor.

Prerequisite(s): A minimum grade of "C" in EENG 3337 or Permission of Instructor.

EENG 7530 Research in Electrical Engineering**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course prepares students for the study of modern research methods in electrical engineering and their application to the preparation of the theses, technical reports, and their presentation to a range of audiences. They will also learn to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

Prerequisite(s): Graduate Student Standing.

EENG 7890 Selected Topics in Electrical Engineering**1-6 Credit Hours. 1-4 Lecture Hours. 0-2 Lab Hours.**

This course is scheduled on an infrequent basis to explore special areas of electrical engineering.

Prerequisite(s): Graduate standing.

EENG 7891 Independent Study**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent study is available for students to undertake individualized experimentation, research, study related to electrical engineering, or a capstone project. The specific topic will be approved by a faculty member in the program, and credit will be assigned commensurate with the magnitude of the study.

Prerequisite(s): Graduate student standing.**EENG 7895 Special Problems in Electrical Engineering****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Individual and specialized study in the areas of electrical engineering not otherwise covered in the program. Students must submit a proposal of the special problem for approval by the faculty member of record. Credit will be assigned commensurate with the magnitude of the study.

Prerequisite(s): Graduate Student Standing.**EENG 7999 Thesis****1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course focuses on the preparation and completion of the thesis.

EEXE Exceptional Education

EEXE 7034 Cog & Beha Probs that Dis Lrng**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Emphasis on differentiating characteristics of students with various cognitive and behavioral problems that disrupt learning. Includes etiologies, cultural and social implications of disability and the theories and systems that support assessment, interventions, and support services. Designed for special education majors.

EEXE 7060 Consult/Collabor Partnerships**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

School personnel will be prepared to assume their roles as consultants and multidisciplinary team members. The impact of disability within the family and the mainstreamed setting will be explored.

EEXE 7130 Assessment Exceptional Student**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to and practice with standardized evaluatory tools and teacher-made criterion referenced tests for the evaluation of exceptional students.

EGC East Georgia College

EGC 1000 East Georgia College**99 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

ELEM Elementary Education

ELEM 6130 Culturally Responsive Pedagogy & Classroom Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A research-based approach to the method and practice of teaching (lesson planning, pedagogical approaches, theoretical frameworks, etc.) and managing behavior in a culturally responsive classroom.

ELEM 6250 Language Arts and Creative Activities**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores theories, models, and strategies for teaching and learning language arts in the elementary school. Students will identify and apply strategies for teaching reading, writing, listening, and speaking. The integration of the arts into language arts instruction is emphasized.

ELEM 6430 MAT Elementary Science Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to prepare candidates/students for teaching science in grades P-5 based on relevant standards, appropriate instructional methods and materials, organizational techniques, and research to support best practices. Emphasis will be placed on preparing teachers to incorporate appropriate science content, process skills, attitudes, and real-world applications into the science classroom as well as effective and developmentally appropriate ways to teach and assess students, including those with exceptionalities, disabilities, and cultural diversities.

ELEM 6440 MAT Elementary Mathematics Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an overview of the mathematics content and methods used to teach elementary school students. Focuses on a variety of topics, including number and operations, algebraic reasoning, geometry and measurement and data. Emphasis is placed on how such concepts can be effectively taught and assessed in the elementary classroom.

ELEM 6530 MAT Elementary Social Studies Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of social studies instructional methodology and inquiry in the elementary classroom. Critical components and theoretical foundations of the social studies curriculum will be investigated. Students will identify appropriate teaching methods, materials, organizational techniques, and research to support best practices for meeting the needs of diverse learners.

ELEM 6700 Critical Pedagogy & Practicum II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed as a practicum experience for students to study critical pedagogy and how to integrate educational theory in their classroom practice. Emphasis is placed on the appropriate application of critical theory and pedagogical content knowledge in a P-5 setting through analysis and evaluation of current classroom practices.

Prerequisite(s): A minimum grade of "B" in EDUF 7132.**ELEM 6733 MAT Internship I****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This practicum experience of 125 hours is designed to provide the teacher candidate with meaningful opportunities to observe, actively engage in classroom activities, and teach in a supervised P-5 classroom. Candidates will demonstrate the knowledge and skills required to help all elementary students learn. Emphasis is placed on planning and teaching lessons in ways that make the content clear and help diverse students learn, assessing teaching effectiveness, and adjusting instruction to enhance student learning.

ELEM 6799 MAT Internship II**6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides a semester-long, full-day teaching experience for teacher candidates. Candidates are assigned to public schools and gradually assume all responsibility for the classroom to which they are assigned. Student Teachers participate in classroom teaching, observing, planning and evaluation conferences and other school-related experiences with guidance provided by a clinical supervisor and a university supervisor. Emphasis is placed on appropriate application of educational theory and content knowledge in a P-5 setting through systematic reflexive analysis and critical evaluation of current classroom practices.

ELEM 7132 Effective Curriculum and Instruction in Elementary Schools**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students the opportunity to explore the relationship between curriculum and instruction. How to effectively plan curriculum and instruction for elementary classrooms will be emphasized.

ELEM 7230 Advanced Language Arts Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to build on the graduate students' knowledge of materials and methods of teaching language and literacy in the P5 classroom. Students will examine issues related to language arts instruction and the theoretical background and research base related to these issues. Course may include field-based assignments.

Prerequisite(s): A minimum grade of "C" in EDUR 7130 or EDUF 7130 or ELEM 7132.

ELEM 7232 Children's Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed for the graduate student who has some knowledge of children's literature. Attempts to update the student's knowledge of children's literature in the classroom and media center.

Cross Listing(s): FREC 7232.

ELEM 7233 Teaching Writing in the Elementary School**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides students the opportunity for an in-depth examination of both the process and products of writing in P-5 schools. Students will explore the current trends and issues related to the teaching of writing in the elementary school including curriculum and assessment. A field component may be required in this course.

ELEM 7234 Teaching Communication Across Cultures**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the principles of culture and addresses communication among educators and students, including youth-at-risk, students in poverty, and English language learners. This course requires a field placement. Course includes field-based assignments.

ELEM 7330 Advanced Mathematics Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide an extension of mathematical knowledge base acquired at the undergraduate level that is necessary to provide a firm foundation for mathematics instruction for students in elementary school. Emphasis will be on planning for differentiated instructional strategies and utilizing a wide variety of resources in implementing standards-based mathematics instruction. Course may include field-based assignments.

Prerequisite(s): A minimum grade of "C" in EDUR 7130 or EDUF 7130 or ELEM 7132.

ELEM 7332 Problem Solving and Mathematical Representations in the Elementary Classroom**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the knowledge and skills needed to teach mathematics effectively to students in elementary school classroom settings. Candidates will examine their own knowledge of mathematics, learn how young students think and learn about mathematics, develop a set of strategies and skills that will enable them to create an environment that helps children understand mathematical concepts.

ELEM 7430 Advanced Science Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is an advanced course in science instructional methodology and inquiry-based instruction in the elementary classroom. Emphasizes current issues and trends in science education. Course may include field-based assignments.

Prerequisite(s): A minimum grade of "C" in EDUR 7130 or EDUF 7130 or ELEM 7132.

ELEM 7530 Advanced Social Studies Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced course in social studies instructional methodology and inquiry in the elementary classroom. Critical components and theoretical foundations of the social studies curriculum will be investigated. Concepts, skills, and attitudes associated with elementary school social studies will be discussed in conjunction with various teaching methods, models, and materials considered developmentally appropriate and effective for diverse learners in the elementary classroom. Course may include field-based assignments.

ELEM 7639 Seminar in P-5**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed as a culminating experience for students to integrate educational theory with setting. Emphasis is placed on appropriate application of educational theory and content knowledge in a P-5 setting through analysis and evaluation of current classroom practices.

ELEM 7799 Professional Internship**6 Credit Hours. 6 Lecture Hours. 0 Lab Hours.**

Designed for those students who are employed in an approved accredited school setting and who are teaching on a non-renewable teaching certificate. The student completes the course requirements in the classroom where he or she is employed, under the mentorship of a school-based mentor and university supervisor. Emphasis is placed on appropriate application of educational theory and content knowledge in a P-5 setting through systematic reflexive analysis and critical evaluation of current classroom practices.

ELEM 8890 Directed Individual Study**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Provides an opportunity for a student to pursue an area of interest not covered by any existing courses in a guided, independent format. The student is responsible for defining an area of study, course objectives, activities and assessment procedures and identifying a graduate faculty member in the Early Childhood Education department who will supervise the study.

ENGL English

ENGL 0099A Communication Skills**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Designed to help students develop language skills necessary for entering regular college courses. Emphasizes grammar and punctuation, essays and other forms of written expression, oral participation, and reading proficiency. Because the course is developmental, a student may exit at the end of any semester by passing the course and achieving a satisfactory score on the exit examination. Audit or institutional credit only.

ENGL 0099B Communication Skills**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Designed to help students develop language skills necessary for entering regular college courses. Emphasizes grammar and punctuation, essays and other forms of written expression, oral participation, and reading proficiency. Because the course is developmental, a student may exit at the end of any semester by passing the course and achieving a satisfactory score on the exit examination. Audit or institutional credit only.

ENGL 0099C Communication Skills**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Designed to help students develop language skills necessary for entering regular college courses. Emphasizes grammar and punctuation, essays and other forms of written expression, oral participation, and reading proficiency. Because the course is developmental, a student may exit at the end of any semester by passing the course and achieving a satisfactory score on the exit examination. Audit or institutional credit only.

ENGL 0999 Support for English Composition
2 Credit Hours. 0,2 Lecture Hours. 0,4 Lab Hours.

ENGL 0999 is a corequisite support course that provides additional instruction for concepts covered in ENGL 1101. The course focuses on students' composition practices, including academic English conventions, citation styles, and critical reading. Students will be placed in ENGL 0999 based on their ACCUPLACER score. Students earn A, B, C, or F grade for the two-credit course.

Corequisite(s): ENGL 1101.

ENGL 1101 Composition I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to the conventions of academic and professional writing through the rhetorical practices of reading and composing texts. Students will use critical thinking and information literacy skills to develop texts through the processes of writing, revision, and reflection. Some sections may have specific course themes.

Cross Listing(s): WRIT 1101.

ENGL 1102 Composition II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course develops students' knowledge of writing beyond the proficiency required by ENGL 1101, emphasizing interpreting, evaluating, and synthesizing information to create arguments from a variety of sources using more advanced research methods. Some sections may have specific course themes.

Prerequisite(s): A minimum grade of "C" in ENGL 1101 or WRIT 1101.

ENGL 2100 Literature And Humanities
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examination of literature as an expression of the humanities through study of several complete works from at least two historical periods, two genres, and two cultures/countries. Includes an essay or projects involving documentation.

ENGL 2111 World Literature I
3 Credit Hours. 0,3 Lecture Hours. 0 Lab Hours.

A survey of representative works of world literature from ancient times to the end of the 17th century, with emphasis on critical reading and writing skills.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.

ENGL 2112 World Literature II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of representative works of world literature from the mid-17th century to the present, with emphasis on critical reading and writing skills.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.

ENGL 2120 British Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of important works of British literature.

ENGL 2121 British Literature I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of important works of British literature from its beginnings to 1800.

ENGL 2122 British Literature II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of important works of British literature from approximately 1800 to the present.

ENGL 2130 American Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of important works of American literature.

ENGL 2131 American Literature I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of American Literature from the colonial period to the mid-19th century.

ENGL 2132 American Literature II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of American Literature from the mid-19th century to the present.

ENGL 2140 African American Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Survey of important works of African American literature.

ENGL 2434 The Language of Film
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 A study of the semantics of cinema and the evolution of the film language. The course will examine technical, literary, and cultural means and aspects of communicating meaning in film.

ENGL 3025 Pop Culture Theory and Criticism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Examination of the theoretical and critical approaches to the study of various forms of popular cultural expression such as film, television, popular literature, magazines and music. Critical methodologies present may include semiotics, genre criticism, ethnography, feminism and cultural studies.

Cross Listing(s): COMM 5025.

ENGL 3030 Selected Topics in Cinema
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Courses will cover a variety of special topics in film, such as specific film genres, auteurs, critical approaches, historical film movements, and representation. May be repeated for additional credit with new topics.
Cross Listing(s): FILM 3030.

ENGL 3090 Selected Topics in Literature
1-9 Credit Hours. 1-9 Lecture Hours. 0 Lab Hours.
 Selected topics in English.

ENGL 3110 Intro To Literary Studies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Vocabulary and approaches of modern literary criticism, reading and interpretation of literary texts, and the tools of literary research and writing.

ENGL 3141 The Bible as Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 An examination of the Bible from the perspective of literary analysis, focusing on the Bible's historical, generic, and narrative contexts as well as its subsequent influence on western literature.

ENGL 3150 Mythology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 An introduction to the major characters, plots, and themes of mythological narratives.

ENGL 3200 Introduction to the Novel
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 An exploration of the origins and development of the novel as a distinct literary form, examining the aesthetic, philosophical, and social concerns that inform selected works from the eighteenth, nineteenth, and twentieth centuries. The course may focus primarily on the American or the British novel. or it may integrate the two through a specific thematic focus.

ENGL 3232 The Art of Film Adaptation of Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Comparative interpretation of the differences between literature and film and the complex challenges of turning diverse narrative literature into autonomous works of cinema.

ENGL 3300 Introduction to Dramatic Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 A survey of dramatic literature from its origins to the present, addressing the genre's unique characteristics, the development of its techniques, the range of its uses and concerns, and its major literary and theatrical practitioners.

ENGL 3331 History of Cinema
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Survey of aesthetic, economic, social, technological and industry development of cinema from 1896 to the present day with an emphasis on film movements and film analysis.
Cross Listing(s): FILM 3331.

ENGL 3332 Documentary Film Studies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of Documentary studies that examines film form, reception, historical developments, ethics, key figures and representation.

Cross Listing(s): FILM 3332.**ENGL 3333 Cinema Genres****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analysis of cinema form, genre conventions, film theory, culture and the film industry through a survey of film genres. May be repeated for additional credit with new topics.

Cross Listing(s): FILM 3333.**ENGL 3350 Introduction to African American Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to African-American literature from its beginnings to the present emphasizing literary, historical and cultural contexts.

ENGL 3400 Introduction to Poetry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

American and/or British poetry in the context of technological developments, philosophical movements, and literary currents. Exploration of forms and themes with emphasis on prosody and interpretation.

ENGL 3535 Patterns in Film and Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A comparative interpretation of themes, ideas, and patterns in selected works of narrative literature, and cinema.

ENGL 4425 Popular Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focus on popular literary genres. Topics vary.

Prerequisite(s): Completion of ENGL 2100 or ENGL 2111 or ENGL 2112.**ENGL 4435 Single Author****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Devoted to the study of a single author whose work has occasioned a significant body of criticism. Students will focus on the body of the author's work and consider both historical context and critical response.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**ENGL 4610 Honors Research Seminar****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

English seminar course designed to prepare Honors students to complete thesis or capstone projects.

ENGL 4630 Senior Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this capstone course, English majors will study a discrete body of literature and conduct extensive research in literary criticism related to a specific topic. Emphasis will be on preparation, revision, and oral presentation of an original research project.

Prerequisite(s): ENGL 3110 and ENGL 2100, ENGL 2111, or ENGL 2112.**ENGL 4790 Internship****3-6 Credit Hours. 3-6 Lecture Hours. 0 Lab Hours.**

2.5 grade point average; supervisory staff member; recommendation of the department head. Offered by special arrangement. Work and/or research, jointly supervised by sponsoring institution or organization and staff member. Six hours credit requires twenty-five hours, 3 hours credit requires fifteen hours. Repeatable up to a maximum of six credit hours.

ENGL 4890 Independent Study**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Open to seniors. To be determined by student and professor. Available to transient students only with approval of the department head.

ENGL 5025 Pop Culture Theory and Criticism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of the theoretical and critical approaches to the study of various forms of popular cultural expression such as film, television, popular literature, magazines and music. Critical methodologies present may include semiotics, genre criticism, ethnography, feminism and cultural studies.

Cross Listing(s): COMM 5025.**ENGL 5030 Television Theory and Criticism****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Critical Examination of various aspects of television, such as genres, social implications, historical significance and modes of production.

Cross Listing(s): COMM 5030.**ENGL 5035 Film Theory and Criticism****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth examination of film theory and criticism concepts.

Cross Listing(s): FILM 5035.**ENGL 5040 Women in Film****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Representations of women in film, may include issues such as feminist film theory and criticism, presentation of female characters in major film.

Cross Listing(s): FILM 5040.**ENGL 5090 Special Topics****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Special topics in English. May be repeated for additional credit when topics change.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5090G.**ENGL 5135 Teaching Literature to Middle and Secondary School Students****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course designed to introduce classroom approaches to literature to middle grades and high school teachers. It will include work with a variety of literary genres and multicultural texts.

Cross Listing(s): ENGL 5135G.**ENGL 5200 Postcolonial Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Literature and theory that emphasizes the interactions between European nations and the societies they colonized.

Prerequisite(s): ENGL 2100 or ENGL 2111 or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5200G.**ENGL 5234 Literature of the American South****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representative works of Southern literature from the colonial period to the present, emphasizing their literary and cultural contexts.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5234G.**ENGL 5235 Irish Literature to 1850****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representative Irish poetry, prose, and drama, from Gaelic times through the Great Hunger of the 1840s. The course interrogates the four mythological cycles; the Aisling and other native literary genres; and texts reflective of British colonization. All works are in English or English translation.

Cross Listing(s): ENGL 5235G.

ENGL 5236 Irish Literature Since 1850**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representative Irish poetry, prose, and drama since the Great Hunger of the 1840s. The course interrogates literature from the Irish Cultural Revival; the Easter Rising, War of Independence, and Civil War; the Free State; the Northern Irish Troubles; and the Celtic Tiger. All works are in English or English translation.

Cross Listing(s): ENGL 5236G.**ENGL 5238 Irish Women Writers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of poetry, prose, and drama produced by Irish and Irish-diasporic women. The course examines female archetypes from Irish mythology; female hagiography from medieval Ireland; and the Field Day controversy. It also interrogates such literary accomplishments by Irish women as nineteenth-century Big House novels and twentieth-century neo-domestic verse.

Cross Listing(s): ENGL 5238G.**ENGL 5280 Literature and the Environment****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representations of the environment in literature and theory. Readings in ecological literary criticism as well as fiction and literary nonfiction from various world areas and historical periods.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5280G.**ENGL 5315 17th and 18th Century American Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representative works in American literature from 1585 to 1800 in their literary and cultural contexts.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5315G.**ENGL 5320 History of the English Language****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the English language from linguistic, social, and historical perspectives.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**Cross Listing(s):** LING 5340, WRIT 5340, WRIT 5340G, ENGL 5320G.**ENGL 5324 18th Century British Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the literature of the long eighteenth century (1660-1800) in its cultural and ideological contexts.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5324G.**ENGL 5325 19th Century American Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representative works from 19th century American literature in their literary and cultural contexts.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5325G.**ENGL 5335 20th and 21st Century American Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of 20th and 21st century American poetry and prose in its literary and cultural contexts.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5335G.**ENGL 5340 Literature by Women****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of literature written by women within social, historical, and theoretical contexts. Topics may include classic, contemporary, and experimental writing by women, feminist theory and criticism.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5340G.**ENGL 5440 Early British Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of literature from the British Isles prior to 1500. Literary genres may include heroic poetry, elegiac verse, lyric, romance, dream visions, drama, and mystical literature.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5440G.**ENGL 5450 Chaucer****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of The Canterbury Tales and other selected works in the context of Chaucer's culture and language.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5450G.**ENGL 5460 Shakespeare****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A selection of Shakespeare's works which may include the sonnets and dramatic genres illustrating representative themes and literature techniques.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5460G.**ENGL 5480 Literature of the English Renaissance****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A selection of representative literary works from the period 1485—1689 in their social and intellectual contexts.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5480G.**ENGL 5485 Milton****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of Milton's major poetry and prose within their social, political, and intellectual context.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5485G.**ENGL 5525 19th Century British Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of Romantic and Victorian literary works in their intellectual and social contexts.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5525G.**ENGL 5526 20th and 21st Century British Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of major British and Commonwealth poets, novelists, and dramatists against the background of the major social and cultural changes of the 20th and 21st centuries.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.**Cross Listing(s):** ENGL 5526G.

ENGL 5533 Literary Criticism and Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An historical survey of literary criticism and theory from antiquity to modern times. Literary criticism considers issues important for all students of literature, such as the value of poetry in our world, the power of poets to represent reality or truth, and the sources of poetic inspiration. This course also delves into the subject of aesthetics, the nature of beauty, and the variety of forces that impact how humans respond to literature.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.

Cross Listing(s): COML 5533, ENGL 5533G.

ENGL 5534 Literature for Adolescents
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of literature, primarily (but not exclusively) narrative, on the subject of adolescence, with emphasis on analyzing and evaluating contemporary literature written especially for or about adolescents.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.

Cross Listing(s): ENGL 5534G.

ENGL 5535 Children's Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of literature written for or read by children with a focus on British and American classics. Students will read and write critical analyses of these works with special attention to the history of childhood. Authors studied may include the Brothers Grimm, Lewis Carroll, Louisa May Alcott, Mark Twain, Kenneth Grahame, Frances Hodgson Burnett, and others.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.

Cross Listing(s): ENGL 5535G.

ENGL 5538 20th and 21st Century World Fiction
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of some of the major works of fiction written by American, British, and World authors since 1900.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.

Cross Listing(s): ENGL 5538G.

ENGL 5560 Studies in Drama
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A specialized focus in the genre of drama. Topics may vary. Course repeatable as topics vary.

Prerequisite(s): ENGL 2100, 2111, or 2112; or permission of the department chair.

Cross Listing(s): ENGL 5560G.

ENGL 5570 Studies in Fiction
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A specialized focus in the genre of fiction. Topics may vary. Course repeatable as topics vary.

Prerequisite(s): ENGL 2100 or ENGL 2111 or ENGL 2112; or permission of the department chair.

Cross Listing(s): ENGL 5570G.

ENGL 5580 Studies in Poetry
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A specialized focus in the genre of poetry. Topics may vary. Course repeatable as topics vary.

Prerequisite(s): ENGL 2100 or ENGL 2111 or ENGL 2112; or permission of the department chair.

Cross Listing(s): ENGL 5580G.

ENGL 5590 Studies in African American Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Thematic approach to African American literature, with emphasis on historical, philosophical, and/or cultural contexts. Topics such as gender, religion, migration, the oral tradition, autobiography, popular culture, rhetoric, civil rights, slavery, sexuality, or literary theory. May be repeated for additional credit when topics change.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.

Cross Listing(s): ENGL 5590G.

ENGL 5840 Contents and Methods English
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to the major currents and figures in modern critical and literary theory since the "New Critics," looking at the basic concepts, philosophical assumptions, and historical and ideological contexts of figures such as Lukacs, Benjamin, Adorno, Bakhtin, Derrida, Foucault, Barthes, Deleuze, Jauss, DeMan, Lacan, Cixous, Irigaray, Kristeva, and Homi Bhabha.

Prerequisite(s): A minimum grade of "C" in ENGL 2100.

Cross Listing(s): ENGL 5840G.

ENGL 5090G Special Topics in English
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

May be repeated for additional credit when topics change. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): ENGL 2100, ENGL 2111, or ENGL 2112; or permission of the department chair.

ENGL 5135G Teaching Literature to Middle and Secondary School Students
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A course designed to introduce classroom approaches to literature to middle grades and high school teachers. It will include work with a variety of literary genres and multicultural texts. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5135.

ENGL 5200G Postcolonial Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Literature and theory that emphasizes the interactions between European nations and the societies they colonized. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5200.

ENGL 5234G Literature of the American South
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of representative works of Southern literature from the colonial period to the present, emphasizing their literary and cultural contexts. Graduated students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in ENGL 2131.

Cross Listing(s): ENGL 5234.

ENGL 5235G Irish Literature to 1850
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of representative Irish poetry, prose, and drama, from Gaelic times through the Great Hunger of the 1840s. The course interrogates the four mythological cycles; the Aisling and other native literary genres; and texts reflective of British colonization. All works are in English or English translation. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5235.

ENGL 5236G Irish Literature Since 1850**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representative Irish poetry, prose, and drama since the Great Hunger of the 1840s. The course interrogates literature from the Irish Cultural Revival; the Easter Rising, War of Independence, and Civil War; the Free State; the Northern Irish Troubles; and the Celtic Tiger. All works are in English or English translation. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5236.**ENGL 5238G Irish Women Writers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of poetry, prose, and drama produced by Irish and Irish-diasporic women. The course examines female archetypes from Irish mythology; female hagiography from medieval Ireland; and the Field Day controversy. It also interrogates such literary accomplishments by Irish women as nineteenth-century Big House novels and twentieth-century neo-domestic verse. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5238.**ENGL 5280G Literature and the Environment****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representations of the environment in literature and theory. Readings in ecological literary criticism as well as fiction and literary nonfiction from various world areas and historical periods. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5280.**ENGL 5315G 17th and 18th Century American Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representative works in American literature from 1585 to 1800 in their literary and cultural contexts. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5315.**ENGL 5320G History of the English Language****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the English language from linguistic, social, and historical perspectives. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5320, LING 5340, WRIT 5340, WRIT 5340G.**ENGL 5324G 18th Century British Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the literature of the long eighteenth century (1660-1800) in its cultural and ideological contexts. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5324.**ENGL 5325G 19th Century American Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of representative works from 19th century American literature in their literary and cultural contexts. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5325.**ENGL 5335G 20th and 21st Century American Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of 20th and 21st century American poetry and prose in its literary and cultural contexts. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5335.**ENGL 5340G Literature by Women****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of literature written by women within social, historical, and theoretical contexts. Topics may include classic, contemporary, and experimental writing by women, feminist theory and criticism. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5340.**ENGL 5440G Early British Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of literature from the British Isles prior to 1500. Literary genres may include heroic poetry, elegiac verse, lyric, romance, dream visions, drama, and mystical literature. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5440.**ENGL 5450G Chaucer****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of The Canterbury Tales and other selected works in the context of Chaucer's culture and language. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5450.**ENGL 5460G Shakespeare****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A selection of Shakespeare's works which may include the sonnets and dramatic genres illustrating representative themes and literature techniques. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5460.**ENGL 5480G Literature of the English Renaissance****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A selection of representative literary works from the period 1485—1689 in their social and intellectual contexts. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5480.**ENGL 5485G Milton****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of Milton's major poetry and prose within their social, political, and intellectual context. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5485.**ENGL 5525G 19th Century British Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of Romantic and Victorian literary works in their intellectual and social contexts. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5525.**ENGL 5526G 20th and 21st Century British Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of major British and Commonwealth poets, novelists, and dramatists against the background of the major social and cultural changes of the 20th and 21st centuries. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5526.

ENGL 5533G Literary Criticism and Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An historical survey of literary criticism and theory from antiquity to modern times. Literary criticism considers issues important for all students of literature, such as the value of poetry in our world, the power of poets to represent reality or truth, and the sources of poetic inspiration. This course also delves into the subject of aesthetics, the nature of beauty, and the variety of forces that impact how humans respond to literature. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Completion of ENGL 2100 or ENGL 2111 or ENGL 2112; or permission of the department chair.

Cross Listing(s): ENGL 5533.

ENGL 5534G Literature for Adolescents
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of literature, primarily (but not exclusively) narrative, on the subject of adolescence, with emphasis on analyzing and evaluating contemporary literature written especially for or about adolescents. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5534.

ENGL 5535G Children's Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of literature written for or read by children with a focus on British and American classics. Students will read and write critical analyses of these works with special attention to the history of childhood. Authors studied may include the Brothers Grimm, Lewis Carroll, Louisa May Alcott, Mark Twain, Kenneth Grahame, Frances Hodgson Burnett, and others. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5535.

ENGL 5538G 20th and 21st Century World Fiction
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of some of the major works of fiction written by American, British, and World authors since 1900. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5538.

ENGL 5560G Studies in Drama
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A specialized focus in the genre of drama. Topics may vary. Course repeatable as topics vary. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Completion of ENGL 2100 or ENGL 2111 or 2112; or permission of the department chair.

Cross Listing(s): ENGL 5560.

ENGL 5570G Studies in Fiction
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A specialized focus in the genre of fiction. Topics may vary. Course repeatable as topics vary. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5570.

ENGL 5580G Studies in Poetry
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A specialized focus in the genre of poetry. Topics may vary. Course repeatable as topics vary. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5580.

ENGL 5590G Studies in African American Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Thematic approach to African American literature, with emphasis on historical, philosophical, and/or cultural contexts. Topics such as gender, religion, migration, the oral tradition, autobiography, popular culture, rhetoric, civil rights, slavery, sexuality, or literary theory. May be repeated for additional credit when topics change. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): ENGL 5590.

ENGL 5840G Content & Methods English
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to the major currents and figures in modern critical and literary theory since the "New Critics," examining concepts, philosophical assumptions, and historical and ideological contexts of figures such as Lukacs, Bakhtin, Derrida, Foucault, Barthes, Deleuze, Lacan, Kristeva, and Homi Bhabha.

Cross Listing(s): ENGL 5840.

ENGL 6630 Seminar in Medieval Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the major authors, genres and literary influences of the English Middle Ages with an emphasis on Chaucer and the fourteenth century.

ENGL 6631 Shakespeare Seminar
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A close examination of several of Shakespeare's "problem" plays.

ENGL 6632 Seminar in Literature of the English Renaissance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study in the major writers of the English Renaissance, including such figures as Sidney, Spenser, Herbert, Donne, and Browne. Lesser authors may be incorporated for their historical significance in the development of modern English prose and poetry.

ENGL 6633 Seminar in Restoration and Eighteenth Century British Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth study of major works and documents from the period. Specific topics and texts may vary.

ENGL 6634 Seminar in Major Authors
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An intensive study of the life (lives) and works of one to three major authors. May be repeated for credit.

ENGL 6635 Gender and Sexuality
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of gender and sexuality issues and concerns in the context of important works of literature.

ENGL 6636 African-American Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course involves the study of images, issues, and themes in African-American literature through an examination of works by such writers as Douglass, Washington, Chestnut, Hughes, Wright, Baldwin, and Morrison.

ENGL 6637 Criticism and Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the great tradition of literary critics, from Plato to the present, and the contemporary critical approaches and theory they shape today.

ENGL 7131 Introduction to Graduate Studies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The seminar provides an in-depth understanding of the bibliographic, research, and critical skills required to do advanced scholarship in literary studies. The seminar also introduces students to current theoretical models of analysis.

ENGL 7618 Thesis Preparation**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Students in this workshop will begin research on a thesis topic, draft and revise a thesis prospectus and bibliography, and meet regularly with a thesis advisor.

ENGL 7630 Seminar in World and Comparative Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Research and discussion of a topic in a specific period of world literature or comparative literature. May be repeated for credit.

ENGL 7631 Seminar in the British Novel**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of important developments or themes of the British Novel.

ENGL 7632 Seminar in the American Novel**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the novel in America from the eighteenth to the twentieth centuries.

ENGL 7633 Seminar in Nineteenth-Century British Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of prose and poetry of the nineteenth century, focusing on either Victorian or Romantic authors. May be repeated for credit.

ENGL 7634 Seminar in Twentieth-Century British Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of British prose, poetry, or drama of the twentieth century, with emphasis and works to be chosen by the instructor.

ENGL 7635 Seminar in Nineteenth-Century American Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of major authors and documents of the nineteenth century, focusing on either Romantic or Realist authors. May be repeated for credit.

ENGL 7637 Seminar in Twentieth-Century American Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of American prose, poetry or drama of the twentieth century, with emphasis chosen by the instructor.

ENGL 7638 Seminar in Twentieth-Century Poetry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of British and American poets of the twentieth century, with emphasis on major authors of either the Modern or Contemporary periods. May be repeated for credit.

ENGL 7639 Seminar in Selected Topics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in English.

ENGL 7999 Thesis**1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Thesis.

ENVH Environmental Hlth Scienc

ENVH 7090 Selected Topics in Environmental Health Sciences**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Allows the student the opportunity to receive specialized and/or focused instruction in an environmental health topic not generally offered by the department.

ENVH 7231 Air Quality**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to chemical, physical, and biological principles of air quality, as well as potential sources of contamination and the resulting effects. The course will also introduce environmental policies pertinent to air issues along with current remediation strategies to ameliorate pollution.

Prerequisite(s): A minimum grade of "C" in PUBH 6532.

ENVH 7232 Water Quality**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Introduces students to chemical, physical, and biological principles of water quality, as well as potential sources of contamination and the resulting effects. The course will also introduce environmental policies pertinent to water issues along with current treatment and remediation strategies to ameliorate pollution.

Prerequisite(s): A minimum grade of "C" in PUBH 6532.

ENVH 7233 Environmental Exposure and Impact Assessment**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to appropriate design, implementation, and analysis of primary environmental exposures. Specific topics covered include designing risk profiles, analyzing field exposures of toxins, development of impact assessments, and evaluating dose-response relationships.

Prerequisite(s): A minimum grade of "C" in PUBH 6533 and ENVH 7231 or ENVH 7232.

ENVH 7234 Environmental Toxicology**3 Credit Hours. 3 Lecture Hours. 1 Lab Hour.**

This course introduces students to concepts associated with the lethal and sub-lethal effects of environmental and occupational stressors on humans and other living organisms. The course also includes laboratory experiments designed to enhance comprehension, among students, in the area of toxicology.

Prerequisite(s): A minimum grade of "C" in PUBH 6532.

ENVH 7235 Field Methods in Environmental Health**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to an overview of current and accepted standards of environmental and occupational exposure monitoring. Also examines the field methodology related to sample collection for water and air quality monitoring.

ENVH 7236 Spatial Analysis for Environmental Health Sciences**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to concepts and methods of spatial analysis related to environmental health problems and public health planning. Students will also employ basic concepts of mapping through the use of applicable Geographic Information Systems software.

ENVH 7237 Risk Assessment and Communication**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to the qualitative and quantitative skills necessary to evaluate the probability of injury, disease, or death in the general population from exposure to environmental contaminants. Hazard identification, exposure assessment, dose-response evaluation, and risk characterization are highlighted. Risk communication includes developing practical skills in assessing health concerns and explaining potential health risks or risk management to the general public.

Prerequisite(s): A minimum grade of "C" in ENVH 7233.

ENVH 7238 Environment, Ethics and Equity**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to theory, concepts and methods of ethics and equity related to one's location. Topics to be addressed include environmental justice, public health ethics, impacts on equity and disparities. Students will also employ basic concepts of spatial analysis through the use of applicable Geographic Information Systems (GIS) software.

ENVH 7239 Public Health Laboratory
3 Credit Hours. 0 Lecture Hours. 6 Lab Hours.

This course introduces students to the laboratory practices and skills necessary to sample, archive, transport, process and analyze environmental materials. Experiences include the design of laboratory experiments including the applications of contemporary laboratory microbiological, cell culture and molecular and instrumental tools used for testing environmental specimens. Experiences will also include silico analysis of laboratory test results, writing technical reports and presenting the outcomes of the research.

Prerequisite(s): A minimum grade of "C" in PUBH 6532 and BIOS 6541 and ENVH 7231 and ENVH 7232 or permission of instructor.

ENVH 7890 Directed Individual Study
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

ENVH 8335 Global Water Quality and Health: Principles and Research

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The global water crisis is the most serious threat to human health. Poor water quality, lack of sanitation and inadequate access to clean water resources are one of the major causes of global health disparities. Current issues such as changing climate, decaying infrastructure and reemerging waterborne diseases are also contributors for disease transmission within vulnerable populations. This course analyzes the key drivers that affect global water quality and human health. Real world case scenarios will be examined to develop sustainable and appropriate solutions that consider environmental, individual, cultural, and economic factors.

ENVH 8435 Toxicology and Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course primarily deals with the sources, exposure, fate, transport, and effects (lethal and sub-lethal) of environmental and occupational stressors on humans and other living organisms of public health significance. Emphasis is placed on the effects of pollutants/contaminants from air, water, soil, and/or food on humans; and historically relevant incidents of environmental contaminants and impact on health. This course also introduces students to the concept of risk assessment, communication, and management of hazardous materials typically encountered in the environment and associated toxicological and public health implications. Importantly, this course also gives students the opportunity to explore intervention strategies against various chemical exposure scenarios and define schemes to prevent future contamination issues related to toxic substances.

Prerequisite(s): A minimum grade of "C" in PUBH 6532.

ENVH 9133 Vector-Borne and Zoonotic Diseases: Biology Epidemiology and Control

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to important vector-borne and zoonotic diseases, including endemic and emerging zoonoses of historic and contemporary importance in the US A and from a global perspective. It provides an overview of the epidemiology of major vector-borne diseases, the biology of their vectors and animal reservoir and their interaction with pathogens. It discusses the dynamics and principles of pathogen transmission, examines current approaches to vector and disease surveillance, and summarizes the public health challenges associated with control and prevention of these diseases and proper use of pesticides and other environmentally safe methods.

Prerequisite(s): A minimum grade of "C" in PUBH 6541 and PUBH 8133.

ENVS Environmental Science

ENVS 2202 Environmental Science
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is an interdisciplinary course integrating principles from biology, chemistry, ecology, geology, and non-science disciplines as related to the interactions of humans and their environment. Issues of local, regional, and global concern will be used to help students explain scientific concepts and analyze practical solutions to complex environmental problems. Emphasis is placed on the study of ecosystems, human population growth, energy, pollution, and other environmental issues and important environmental regulations.

ENVS 7110 Integrative Environmental Science
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will explore the complex interdisciplinary nature of environmental science. Students will investigate how interdisciplinary approaches incorporating the scientific disciplines, mathematics, policy, and management can be combined to address real-world environmental issues. The course will often be team taught by 3 faculty and will contain a mix of lecture and project based learning. All students will gain scientific writing experience by developing a research proposal.

ENVS 7120 Genes Organisms and Ecosystems
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers major principles of evolution and ecology, and application of these principles to the management of species and ecosystems. Topics include the origin and maintenance of genetic variation, evolutionary change of populations over time, the role of speciation and extinction in regulating biodiversity, and ecological interactions between organisms and their abiotic and biotic environments, at the scales of individuals, populations, communities, and ecosystems. These principles will be applied to conservation issues arising from global environmental change, and addressing these issues through sustainable management of species and ecosystems.

ENVS 7130 Biogeochemical Cycles
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines biogeochemical cycles (C, N, P, S, and metals), the environments in which these processes occur (hydrosphere, lithosphere, atmosphere, and biosphere), the chemical reactions that take place during these cycles, and the microorganisms that influence them. Additionally, a major theme is the effect of human activities on biogeochemical cycles.

ENVS 7140 Applied Statistics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of statistical analyses and methods used in studies related to the biological and environmental sciences. The general emphasis of this course includes organizing and summarizing data, drawing inferences from population samples via estimation and significance tests, linear and generalized regression, random-effects models, time-series, and spatio-temporal analysis.

ENVS 7150 Geospatial Data
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to introduce methods of geospatial data acquisition, processing, mapping and analysis (from the field and from online geodatabases) in the environmental sciences.

ENVS 7160 Computational Sciences
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to the application of mathematics to various biologically and environmentally related problems, which can be analyzed both analytically and numerically. Computational approaches for model analysis are introduced and include numerical solutions of linear and nonlinear models, numerical differentiation and integration, data fitting, and other numerical methods.

ENVS 7170 Applied Environmental Chemistry
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers a variety of chemical fields as they apply to the five essential human needs: water, food, health, waste management, and energy. Various materials, including metals, inorganic and organic compounds, polymers, and proteins, as well as their applications, will be introduced. Basic research and cutting-edge technologies will be discussed.

Prerequisite(s): Admission to the Environmental Science graduate programs.

ENVS 7180 Environmental Modeling
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to the study of environmental phenomena that exhibit complexity emergent from a wide variety of parameters. An interdisciplinary course that employs the study of a variety of physical, biological, and chemical problems. Students learn how to construct and analyze minimal mathematical, physical, and computational models that provide informative answers to precise questions about: population dynamics; species interactions (e.g., competition, predation, parasitism); reaction kinetics; sedimentation; biological oscillators; coupled reaction networks; molecular motors; limit cycles; reaction diffusion; nitrogen fluxes in low-relief watersheds; recovery from acid deposition in mountain streams; bacterial patterns; nitrogen budgets on permaculture farms; and the sustainability of human activity on the Earth.

Prerequisite(s): Admission to the Environmental Science graduate programs.

ENVS 7610 Graduate Seminar
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

An intensive study of an advanced topic in environmental science and/or sustainability covered by one or more members of the graduate faculty in the College of Science and Mathematics. The selected topic will vary from semester to semester.

ENVS 7730 Internship
1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Students will apply their skills and knowledge to a current problem in a professional setting, either on campus or at the site of a participating sponsor. Students must maintain contact with the Internship Director through the course of the internship work, and must submit a written report and a work product at the end of the project.

ENVS 7830 Non-Thesis Capstone
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Students will define, devise, and implement a Master's Capstone project, which includes writing, and presenting the project.

ENVS 7900 Research
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Doctoral students will pursue, under the direction of their advisory committee, a program of independent research in a particular area of environmental science. Results of the research will be presented as a dissertation in partial fulfillment of the requirements for the Ph.D. in Environmental Science degree.

ENVS 9999 Dissertation
1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Students are provided support and direction in completing the doctoral dissertation. The course provides guidance from both the dissertation supervising chair and the dissertation committee. Students will complete a quantitative project and must follow the scientific standards and best practices associated with question development, writing, statistical analysis, and interpretation of data.

EPID Epidemiology

EPID 7090 Selected Topics in Epidemiology
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Allows the student the opportunity to receive specialized and/or focused instruction in an epidemiology topic not generally offered by the department.

EPID 7131 Epidemiology of Chronic Disease
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to introduce the student to the ever-expanding area of chronic disease epidemiology. Students will be introduced to the current status of chronic disease and control programs, methods used in chronic disease surveillance, intervention methods, and modifiable risk factors. Some of the major chronic diseases such as cancer, cardiovascular disease, chronic lung disease, diabetes and arthritis will be discussed in detail.

Prerequisite(s): A minimum grade of "B" in PUBH 6533.

EPID 7133 Epidemiologic Research Methods I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will focus on epidemiologic methods - primarily methods used in observational studies using existing data, cohort studies, case-control studies and randomized controlled trials. With respect to cohort studies, topics covered include cohort identification, ascertainment of exposure status, follow-up of cohort members, measuring outcomes, sources of bias and interpretational issues. Case-control topics include issues around defining cases and controls, control of confounding, and sources of bias/systematic error. Topics around randomized trials include randomization procedures, defining and assembling treatment/intervention arms, selecting study subjects and approaches to data collection. Other topics covered in this course include surveillance and ecologic studies. Pros and cons of all study designs will be discussed, in part through readings of published papers. Fundamentals of data analysis will also be addressed, but a detailed discussion of that material will be covered in EPID 7134.

Prerequisite(s): A minimum grade of "B" in all of the following: PUBH 6533, BIOS 6541 or PUBH 6541.

EPID 7134 Epidemiologic Research Methods II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides instruction and hands-on experience in the analysis and interpretation of data from epidemiologic studies. Topics to be covered include epidemiology research questions that can be addressed by case-control and cohort studies, the rationale underlying the major techniques used to analyze data from case-control and cohort studies, the conditions under which these methods are appropriate and their relative advantages and disadvantages. Attention will be given to how interactions, confounders and nonlinear relationships among variables can be addressed along with interpretation of statistical software output from epidemiologic studies employing these designs and analytical methods.

Prerequisite(s): A minimum grade of "B" in EPID 7133.

EPID 7135 Epidemiology of Infectious Disease
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide students with an overview of the principles and practices of infectious diseases epidemiology with focus on how the presence and control of communicable diseases effects public health locally, nationally and internationally. Topics to be covered include: 1) general principles of infectious diseases epidemiology, including outbreak investigation, surveillance, analysis of infectious diseases data, and laboratory testing of specimens; 2) major modes of infectious disease transmission, including airborne, food and water, zoonotic, insect vector, blood, and sexual transmission; 3) different control strategies for infectious diseases, including infection control, antimicrobial management, immunization, risk factor modification, and screening; 4) the practical application of epidemiologic tools for the understanding and control of infectious diseases.

Prerequisite(s): A minimum grade of "B" in PUBH 6533 and PUBH 6541 and BIOS 6541.

EPID 7230 Social Epidemiology and Health Equity
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will focus on understanding the social determinants of health. The course will provide an analysis of major social variables that affect population health: poverty, social class, gender, race, family, community, work, behavioral risks, and coping resources. Readings and discussion center on understanding the theories, measurement and empirical evidence related to specific social conditions and experiences such as socioeconomic position, discrimination, social networks and support, work conditions, ecological level neighborhood and community social conditions, and social and economic policies. Biological and psychological mechanisms by which social conditions influence health will be discussed. Methods are introduced to operationalize each construct for the purposes of empirical application in epidemiologic research.

Prerequisite(s): A minimum grade of "B" in PUBH 6533.

EPID 7231 R for Epidemiologists

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This is an introductory course in R tailored to the needs of epidemiologists and epidemiological research. The course will include data management, mathematical and statistical computation and analytical statistical tools that epidemiologists can use in their research and practice.

EPID 7233 Principles of Public Health Surveillance

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide students with a strong foundation in public health surveillance of both health conditions and risk factors. The course will teach the theory and practice of surveillance supported by many examples of surveillance systems from the developed and developing world. The class will build on and reinforce basic epidemiologic concepts. Students will be given the opportunity to design and evaluate a surveillance system.

Prerequisite(s): A minimum grade of "B" in PUBH 6533.

EPID 7431 Stata for Epidemiologists

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course emphasizes data management and software applications using the Stata software package. Student will learn how to use Stata codes for the basics of data-management, data-reporting, graphics and use of do-files. Students will also learn basic Stata commands useful in epidemiological research including, but not limited to, descriptive statistics to estimate the incidence of a binary response and to characterize the demographic information supplied by study participants; statistical tests to identify univariate predictors associated with the binary response; graph the incidence of a binary response as a function of a predictor; and table of standardized means and proportions. Students will also be introduced to Stata codes for regression models. Particular focus is placed on applications pertaining to public health and health services research.

EPID 7890 Directed Individual Study

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

EPID 8130 Field Methods in Epidemiology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course addresses practical aspects of management and implementation of research studies and will focus on the conduct of research consistent with the scientific method. Topics include planning study activities, questionnaire design and implementation, and operations research.

Prerequisite(s): A minimum grade of "B" in all of the following: PUBH 6533, PUBH 6541 or BIOS 6541, EPID 7133, EPID 7134.

EPID 8230 Observational Study Design and Analysis

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will focus on the design and conduct of observational research designs including cohort, case-control and cross-sectional approaches. This course will provide instruction related to issues specific to observational research approaches. Students will develop and present detailed study plans for each research approach.

Prerequisite(s): A minimum grade of "B" in all of the following: PUBH 6533, PUBH 6541 or BIOS 6541, EPID 7133, EPID 7134 or equivalent.

EPID 9131 Epidemiology of Infectious Diseases of Direct Transmission

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers advanced topics in epidemiology of infectious diseases of direct interpersonal transmission, except sexual and bloodborne transmission. These include infectious diseases that are transmitted via airborne transmission, droplet transmission, or transmission via fomite or touching, etc. Important themes may include emergency preparedness and response (including outbreaks and pandemics), surveillance, as well as interventions that prevent and control transmissions. Computational, mathematical and statistical tools relevant to the practice of infectious disease epidemiology will be introduced.

Prerequisite(s): A minimum grade of "B" in all of the following: PUBH 6533, PUBH 6541 or BIOS 6541, MATH 1441, EPID 7135 or equivalent.

Corequisite(s): EPID 7133.

EPID 9132 Epidemiology of Infectious Diseases Transmitted via Bodily Fluids

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers advanced topics in epidemiology of infectious diseases transmitted via bodily fluids, primarily sexually transmitted infections and bloodborne infections. Important themes may include outbreak preparedness and response, surveillance, and interventions that prevent and control transmissions. Computational, mathematical and statistical tools relevant to the practice of infectious disease epidemiology will be introduced.

Prerequisite(s): A minimum grade of "B" in all of the following: EPID 9131.

EPID 9231 Chronic Disease Epidemiology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to introduce the student to the ever-expanding area of chronic disease epidemiology. Students will be introduced to the current status of chronic disease and control programs, methods used in chronic disease surveillance, intervention methods, and modifiable risk factors. Some of the major chronic diseases such as cancer, cardiovascular disease, chronic lung disease, diabetes and arthritis will be discussed in detail. Pathophysiology and clinical features of common chronic conditions will also be presented.

Prerequisite(s): A minimum grade of "B" in all of the following: PUBH 6533, BIOS 6541 or PUBH 6541, EPID 7131, EPID 7133, EPID 7134 or equivalent.

EPID 9232 Cardiovascular Disease Epidemiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to enhance understanding about the determinants of cardiovascular diseases in populations and how to intervene most effectively to reduce morbidity and mortality due to stroke and heart disease. Emphasis is placed on the social determinants, behavioral risk factors, nutritional and dietary influences, and policy intervention of cardiovascular diseases. In addition, the course provides students with hands on experience to characterize the frequency and impact of chronic diseases and their risk factors from global, national and local perspective using public data available through the Center of Disease Control and Prevention and other sources.

EPID 9233 Cancer Epidemiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course uses a combination of lecture, student discussion and independent research to review the fundamentals of cancer epidemiology including classic descriptive cancer EPI, basic cancer biology, etiology of common and uncommon human cancers, major and minor risk factors for cancer, screening techniques for early detection, cancer biomarkers, and current research in cancer epidemiology. Epidemiologic surveillance techniques including cancer registries and databases, international studies and intervention trials will also be covered. Study designs and epidemiologic methodology used in cancer research will be discussed throughout the course.

Prerequisite(s): A minimum grade of "B" in all of the following: PUBH 6533, PUBH 6541 or BIOS 6541, EPID 7131, EPID 7133, EPID 7134.

EPID 9234 Interventional Epidemiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will familiarize students with the issues in the design, conduct, and analysis of interventional studies. Factors involved in recruitment, intervention allocation, instrument development, data collection and analysis, reporting and interpreting findings from interventional studies will be included.

Prerequisite(s): A minimum grade of "B" required for EPID 6533, EPID 7134, and EPID 7133 or permission of instructor.

EPID 9431 Mental Health Epidemiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore factors that determine the frequency and distribution of mental health problems in populations. Strategies for mental health intervention will also be discussed.

Prerequisite(s): A minimum grade of "B" in all of the following: PUBH 6533, BIOS 6541 or PUBH 6541, EPID 7131, EPID 7133, EPID 7134 or equivalent.

EPRS Georgia State Univ Franch

EPRS 7900 Methods of Research in Education**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

EPSF Education Foundations-GML

EPSF 7120 Social and Cultural Foundations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students analyze the roles of schools in the social order from the perspectives of the humanities and the social sciences.

EPY ED Psyc GOML

EPY 7080 Psychology of Learning & Learners**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of major behavioral, cognitive, and sociohistorical approaches to learning with consideration of learning across the life span. Sources for individual differences in learning are discussed.

ESED Element - Secondary Educa

ESED 4090 Special Topics**9 Credit Hours. 0-9 Lecture Hours. 0 Lab Hours.**

Promotes specialized training appropriate to the needs of pre-service teachers. Attention will be given to a range of specific problems as they relate to the elementary, middle, or secondary schools and teaching field.

Prerequisite(s): Approval of advisor, instructor, and department chair.

ESED 4700 Beginning of P-12 School Year Experience**0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course provides teacher candidates an opportunity to experience the beginning of school year at their P-12 school placement site. Teacher candidates will participate in pre-planning activities and the first weeks of the school year. Teacher candidates will assist the classroom teacher with beginning of the year tasks such as setting up the classroom, establishing classroom routines, developing curriculum plans and student learning outcomes, attending professional meetings, etc. This experience begins the first day of pre-planning for the assigned school district placement and extends until the first day of Georgia Southern Fall Semester.

ESED 4798 Student Teaching in P-12 Education**9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Student Teaching is a period of guided teaching during which the candidate, under the direction of a clinical supervisor, takes increasing responsibility for leading the school experiences of a given group of learners over a period of consecutive weeks and engages more or less directly in many of the activities which constitute the wide range of a teacher's assigned responsibilities.

ESED 4799 EdTPA Internship Support Sem**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

edTPA Internship Support Seminar is a hybrid course for candidates who must retake edTPA. Candidates will meet with the edTPA Review Team to review portfolio results and discuss the best plan for the candidate to retake the edTPA. Based on the edTPA Review Team's recommendations a specific action plan will be developed, and this will determine if the candidate will enroll for 1, 2, or 3 credit hours in order to complete the retake process.

Prerequisite(s): Satisfactory completion of ELEM 4799 or MGED 5799 or ESED 4798 or SPED 4799 or SCED 5799.

ESED 4890 Directed Individual Study**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

The student, under the direction of the instructor, will identify and study a topic applicable to a teaching field and level of certification.

Prerequisite(s): Approval of advisor, instructor, and department chair.

**ESED 5130 Nature and Needs of Gifted and Talented Learners
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to examine the nature and needs of gifted and talented learners. Candidates will become knowledgeable through research from the field and literature about the history and development of gifted and talented programs, the characteristics of gifted and talented students, and identify varied expressions of advanced aptitudes, skills, creativity, and conceptual understandings characterized by gifted and talented learners. In addition, candidates will examine the role of culture in the manifestation of gifts and talents as well as gifted behaviors in special populations. The course has a required field component for teaching purposes.

Cross Listing(s): ESED 5130G.

**ESED 5131 Curriculum for Gifted and Talented Learners
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an exploration of theory, research, and practices related to the selection and organization of curriculum for the gifted student. Emphasis will be placed on curricular models and selecting materials used in gifted education. Opportunities will be provided for the development of curriculum for the gifted student. The course has a required field component for teaching purposes.

Prerequisite(s): A minimum grade of "D" in ESED 5130.

Cross Listing(s): ESED 5131G.

**ESED 5132 Methods for Teaching Gifted and Talented Learners
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course covering the development of methods and developmentally-appropriate instructional and assessment materials for students identified as gifted learners. The course has a required field component for teaching purposes.

Prerequisite(s): A minimum grade of "C" in ESED 5130 and ESED 5131.

Cross Listing(s): ESED 5132G.

**ESED 5455 Study Abroad in Teacher Education
3 Credit Hours. 3 Lecture Hours. 1-18 Lab Hours.**

This course will prepare teacher candidates for travel and study abroad by engaging them in the study of the culture, cultural transmission to the young, the education system, and the role of the teacher in the designated country in which the study abroad field experience will occur. Candidates will travel to the country to engage in either supervised research or teaching activities to learn more about the instructional theories, philosophies, and practices that support the educational processes for children and adolescents who are comparable to K-12 students in the United States. A field experience is required.

Cross Listing(s): ESED 5455G.

**ESED 5790 Full-Time Residency Internship I
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This internship course is limited to students participating in a full-time residency program that has been collaboratively designed by the College of Education and participating school system with an approved residency MOU. Students in this program will complete a full-time residency placement in a P-12 school and may be hired as fully employed resident teachers. Additional support and mentoring from the partner school system will be provided. Students will complete all course assignments, assessments and required teaching responsibilities while serving as a resident teacher candidate or resident teacher.

Prerequisite(s): Departmental approval.

Cross Listing(s): ESED 5790G.

**ESED 5130G Nature and Needs of Gifted and Talented Learners
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is designed to examine the nature and needs of gifted and talented learners. Candidates will become knowledgeable through research from the field and literature about the history and development of gifted and talented programs, the characteristics of gifted and talented students, and identify varied expressions of advanced aptitudes, skills, creativity, and conceptual understandings characterized by gifted and talented learners. In addition, candidates will examine the role of culture in the manifestation of gifts and talents as well as gifted behaviors in special populations. The course has a required field component for teaching purposes. Graduate students will be provided additional assigned readings and assignments.

Cross Listing(s): ESED 5130.

**ESED 5131G Curriculum for Gifted and Talented Learners
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course provides an exploration of theory, research, and practices related to the selection and organization of curriculum for the gifted student. Emphasis will be placed on curricular models and selecting materials used in gifted education. Opportunities will be provided for the development of curriculum for the gifted student. The course has a required field component for teaching purposes. Graduate students will be provided additional assigned readings and assignments.

Prerequisite(s): ESED 5130G.

Cross Listing(s): ESED 5131.

**ESED 5132G Methods for Teaching Gifted and Talented Learners
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A course covering the development of methods and developmentally-appropriate instructional and assessment materials for students identified as gifted learners. The course has a required field component for teaching purposes. Graduate students will be provided additional assigned readings and assignments.

Prerequisite(s): A minimum grade of "B" in ESED 5130G and ESED 5131G.

Cross Listing(s): ESED 5132.

**ESED 5455G Study Abroad in Teacher Education
3 Credit Hours. 3 Lecture Hours. 1-12 Lab Hours.**

This course will prepare teacher candidates for travel and study abroad by engaging them in the study of the culture, cultural transmission to the young, the education system, and the role of the teacher in the designated country in which the study abroad field experience will occur. Candidates will travel to the country to engage in either supervised research or teaching activities to learn more about the instructional theories, philosophies, and practices that support the educational processes for children and adolescents who are comparable to K-12 students in the United States. A field experience is required.

**ESED 5790G Full-time Residency Internship I
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This internship course is limited to students participating in a full-time residency program that has been collaboratively designed by the College of Education and participating school system with an approved residency MOU. Students in this program will complete a full-time residency placement in a P-12 school and may be hired as fully employed resident teachers. Additional support and mentoring from the partner school system will be provided. Students will complete all course assignments, assessments and required teaching responsibilities while serving as a resident teacher candidate or resident teacher. Graduate students will complete additional reflections and analysis of their teaching.

Prerequisite(s): Departmental approval.

Cross Listing(s): ESED 5790.

ESED 6796 Student Teaching in P-12 Education
6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Student Teaching is a period of guided teaching during which the candidate, under the direction of a clinical supervisor, takes increasing responsibility for leading the school experiences of a given group of learners over a period of consecutive weeks and engages more or less directly in many of the activities which constitute the wide range of a teacher's assigned responsibilities.

ESED 6798 Supervised Practicum
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A supervised teaching experience in a middle grade or secondary classroom. Emphasis is placed on instructional planning, classroom management, and student evaluations.

Prerequisite(s): A minimum grade of "C" in MSED 6131.

ESED 6799 Supervised Internship
6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A fifteen-week supervised teaching experience in the specific teaching field and grade levels for which one is being certified. Candidates seeking initial certification in middle grades or in one of the secondary or P-12 teaching fields will complete the supervised internship for initial certification. Emphasis is placed on instructional planning, methodology, classroom management, and assessment of student learning.

ESED 7090 Special Topics
9 Credit Hours. 0-9 Lecture Hours. 0 Lab Hours.

Promotes specialized training appropriate to the needs of inservice teachers. Attention will be given to a range of specific problems in the elementary, middle, or secondary classrooms.

ESED 7131 Enhancing Student Performance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course engages candidates in using data about students to inform their instructional decision-making and enhance student learning. Through an in-depth analysis of the formative assessment process, candidates learn how to design, implement, and evaluate a standards-based formative assessment system that engages learners in their own growth, monitors learner progress, and guides decision making.

ESED 7132 Framework for Teaching
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of teaching and learning strategies associated with effective teaching practices. Emphasis is placed upon the relationships that exist between student development, instructional practices, educational environments, continuous reflection and assessment, learning communities, and dispositions of the profession.

ESED 7133 Trends, Issues, and Research in Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to help practitioners develop critical frameworks for designing and evaluating educational practices and programs within the context of current trends and issues in education. Emphasis is placed on specific research findings and their application to practice, in addition to the development of analytical and communicative skills needed to improve teaching and learning. Candidates will formulate their own professional goals that will culminate with the presentation of a professional portfolio at the end of the program.

ESED 8130 Research on Current Trends and Issues
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides candidates the opportunity for exploration and reflection of current trends, issues, and research of effective teaching and learning as they apply to their school setting. Emphasis is placed on the ability to evaluate and apply current trends, issues, and research in education to make decisions about effective teaching. Candidates will analyze and synthesize the literature related to a chosen topic of study by effectively incorporating the elements of quality evaluation of the literature; i. e., peer-reviewed, empirical and scholarly-based. Candidates will write a literature review that demonstrates their understanding of the current knowledge base in their chosen topic and its application to effective teaching and learning.

Prerequisite(s): Admission into the Ed S Program.

ESED 8131 Teacher Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is an action-oriented experience that explores the multiple aspects of the teacher as a leader. Teachers will discover their own leadership potential as they delve into the characteristics of leadership, adult development, the school culture, interpersonal and technical skills, and tasks and functions of leadership. Examination and application of processes, systems, strategies, and leadership to achieve results in classroom, building, and larger educational arenas. A goal is to develop a working knowledge of characteristics of successful organizational systems, core values, and educational concepts that ensure continual improvement of teaching and leadership methods.

ESED 8132 Curriculum and Instruction
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide the experienced teacher and graduate candidate with an opportunity to examine and explore current trends and issues in curriculum and instruction and the impact of these trends and issues on student learning outcomes. A focus is on the critical evaluation of traditional and non-traditional curriculums, the influence of professional standards on curriculum across content areas, and the development of effective instructional practices to enhance academic achievement for all students. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

ESED 8230 Introduction to Teacher Support and Coaching
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This is the first of two courses required for the teacher support and coaching endorsement. This course focuses on learning how to support individuals who want to mentor/coach pre-service, induction phase, and/or professional educators seeking to improve performance through reflection and modifications of practices. Participants will examine mentoring/coaching theories, research mentoring/coaching best practices, and learn characteristics of an effective protégé mentoring/coaching plan. School/District-level performance-based field/lab exercises required. May extend beyond one term.

ESED 8232 Teacher Support and Coaching Internship
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This is the second course in a two course series for the teacher support and coaching endorsement. This internship is designed to provide opportunities for the support educator to demonstrate and apply knowledge, skills, and dispositions of supportive supervision in a clinical setting. Emphasis will be placed on the demonstration of specific support skills as required to supervise field experience students, student teachers, beginning teachers, veteran teachers, and others. School/Central Office improvement projects required. Internship may extend beyond one term. (Repeatable). This course has a required field component. Candidates must tailor their course assignments and field experiences to their specific grade levels and certification/content field.

Prerequisite(s): A minimum grade of "B" in ESED 8230.

ESED 8330 Teaching and Learning in Diverse P-12 Contexts
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course requires candidates to research, examine, and reflect on current data and theory related to diverse learners, diverse learning settings, community contexts, and instructional/curricular approaches for increasing academic success for all students.

ESED 8537 Trends: Math/Science/Computer Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Current trends and issues in teaching mathematics, science, and computing technology in the schools. Emphasis is placed on research findings, recommendations of professional organizations and effective practices that connect the teaching of mathematics and science, supported by computing technology. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

ESED 8538 Applications: Math/Science Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Addresses the integration of mathematics and science in the classroom and serves to correlate knowledge from science and mathematics courses with practical applications in local industries. Topics focus on applications of mathematics in science contexts, while emphasizing the relevance of mathematics and science to every day life. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

ESED 8539 Computer Technology in Math/Science Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Applications of computing technologies such as graphics calculators, computers and the Internet in the classroom. Emphasis is placed on integrating these technologies into the teaching of school mathematics and science. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

ESED 8839 Problem of Practice
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

ESED 8839 is the Capstone course in the Ed.S. in Teaching and Learning Program and should be taken in the program of study final semester. The course is designed to promote and facilitate the critical thinking skills of graduate candidates enrolled in an educational specialist program. Through course activities, candidates identify a significant problem of practice in their professional teaching field and develop a solution that addresses the problem directly. In addition, candidates are required to become critical consumers of the research and literature related to curriculum and instruction. As practitioner-scholars, graduate candidates gain insight into their learning community and apply this investigative insight to improve P-12 student learning outcomes.

Prerequisite(s): A minimum grade of "C" in ESED 8130 and ESED 8132.

ESED 8890 Directed Individual Study
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

The candidate, under the direction of the instructor, will identify and study a topic applicable to one's teaching field.

ESED 9231 The Teacher Educator
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed for the doctoral candidate who aspires to be a teacher educator at a college or university. A main focus is the role of the teacher educator and expectations for teaching, scholarship, and service. Candidates will apply knowledge and skill from the course in developing a syllabus and course materials for a teacher preparation course and they will develop a professional portfolio.

Prerequisite(s): Minimum grade of "B" in ESED 9131 and ESED 9233; EDD admission.

ESED 9232 Supervision of Teachers
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is a combination of theory and practice and is designed to prepare students who have prior teaching experience to use principles of supervision to help improve classroom performance and to create better learning communities. Participants will examine supervisory theories, research, and practice to develop knowledge, skills, and supervisory styles.

Prerequisite(s): Minimum grade of "B" in ESED 9131 and ESED 9233; EDD admission.

ESPY School Psychology

ESPY 7130 Professional School Psychology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study will be made of the development of school psychology and its' present status and trends. The professional responsibilities of the school psychologist will be explored in the context of social, legal and ethical issues that affect practice.

Prerequisite(s): Admission to School Psychology program or permission of instructor.

ESPY 7131 Behavioral Interventions
3 Credit Hours. 3 Lecture Hours. 4 Lab Hours.

Prepares school psychologists, counselors and classroom consultants to manage children with moderate to severe conduct problems so that they can profit from classroom instruction. Includes symptoms, diagnosis, treatment and management of children with conduct disorders that hamper learning.

Prerequisite(s): Admission to School Psychology program or permission of instructor.

ESPY 7132 Classroom-based Performance and Psychometrics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to develop a basic understanding of comprehensive psychoeducational assessment procedures for children with learning or behavioral problems. The focus is basic multi-factor assessment design and psychometrics. Training in multi-factored assessment skills, particularly as they relate to classroom performance, observation, interviewing skills, oral language tests, and achievement tests.

Prerequisite(s): Admission to the School Psychology program.

ESPY 7133 Implications of Child Psychopathology in Schools
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide graduate students with knowledge of childhood psychopathology and its implications in educational settings. Students will become aware of various mental health disorders in childhood and learn about a range of behaviors that differ from accepted social standards within our cultural institutions. Discussion will focus on the diagnostic criteria of various childhood mental health disorders and implications of childhood psychopathology for schools.

ESPY 7230 Developmental Diagnosis in Early Childhood
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course prepares school psychologists, counselors, social workers, special education personnel, and classroom teachers and consultants to develop awareness of theoretical foundations, research and practice relevant to the development of children birth through twenty-one. Developmental diagnosis in early childhood is the focus, incorporating physical, cognitive, language, social-emotional, and adaptive development areas. Also included is discussion of symptoms, diagnosis, early intervention and treatment, IDEIA disability categories and eligibility, and management of children at-risk.

ESPY 8130 Curriculum-based Assessment and Response-to-Intervention**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide knowledge and skills in Curriculum Based Assessment (CBA), specific Curriculum Based Measures (CBM), problem-solving assessment, and response to intervention (RTI), as it relates to academic achievement. Specifically, the course will enable candidates to engage in early identification, determining the magnitude of deficits when they are present, develop academic goals and intervention plans, and monitor student progress toward academic goals.

Prerequisite(s): Minimum grade of "B" in ESPY 7132; admission to the School Psychology program.

ESPY 8131 Individual Intellectual Assessment**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed for students majoring in School Psychology. It provides intensive experience in the administration, scoring, and score-based interpretation of individual psychological tests for educational purposes.

Prerequisite(s): Minimum grade of "B" in ESPY 7132; admission to the School Psychology program.

ESPY 8132 Addressing Diversity in School-based Conceptualization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course builds on knowledge and skills in intellectual assessment that school psychology students gained in ESPY 8131. It provides experience in integrating all assessment data, interpreting test data, conceptualizing, and report writing. The focus of the course is to provide graduate students with a foundation of knowledge, awareness, and skills in multicultural issues related to school-based conceptualization. The course will cover theories, research, and practices associated with school-based conceptualization utilizing multicultural competence with emphases on within-group differences and the intersections of race, ethnicity, gender, religion, sexuality, social class, and disability/exceptionality.

Prerequisite(s): Minimum grade of "B" in ESPY 8131; admission to the School Psychology program.

ESPY 8133 Personality and Behavioral Assessment in the Schools**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides school psychology students with extensive experience in administering, scoring, and interpreting personality and behavioral assessment measures. School psychology students will also learn to conduct a clinical interview and integrate information from various assessment sources to write an integrated report.

Prerequisite(s): Minimum grade of "B" in ESPY 8132.

ESPY 8135 Crisis Intervention and Prevention**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course investigates exemplary crisis intervention and prevention programs that promote the mental health and physical well-being of ALL individuals (schools and communities). This course also examines the history and development of crisis intervention. A focus will be developing skills and knowledge required to effectively intervene and assist children, adults, and families (including teachers and administrators in schools) during periods of crisis. The course will highlight the importance of prevention in decreasing the number and severity of crisis situations. Criteria for determining empirically validated programs are discussed.

Prerequisite(s): Minimum grade of "B" in COUN 7332 or PSYC 7333.

ESPY 8136 School, Home, and Community Partnering**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed for students majoring in School Psychology. Graduate candidates develop skills in partnering with parents/guardians and community agencies/resources to improve the academic, behavioral, and social-emotional functioning of the Pre-K through 12 student.

ESPY 8230 Consulting in Educational Settings**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Presents theories and develops skills needed to assist adults working with children at risk and with special needs in both rural and urban educational settings. Intervention during crises affecting children in schools will be presented.

Prerequisite(s): Admission to Ed.S. in School Psychology program or permission of instructor.

ESPY 8330 Program Evaluation for School Psychologists**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed for students majoring in School Psychology. Graduate candidates will develop skills in program evaluation specific to the role and function of school psychologists. Candidates will learn a variety of evaluation frameworks, methods, and tools for data-based decision making within school-based programs for academic, social, and behavioral concerns.

Prerequisite(s): Admission to the program or permission of the instructor.

ESPY 8631 Seminar in School Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides a review of professional competency issues, legal/ethical issues, practice guidelines and practice applications for students entering the School Psychology Internship.

Prerequisite(s): Permission of instructor.

ESPY 8737 Practicum in School Psychology**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Experience with school children having learning problems will be provided. Complete child studies will be made and students will develop competence in working with children, teachers, educational specialists and parents under supervision.

Prerequisite(s): Prior or concurrent enrollment with a minimum grade of "B" in ESPY 8133 or permission of instructor and proof of professional liability insurance.

ESPY 8738 School Psychology Internship I**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Supervised field experience to provide the comprehensive range of experiences in the professional role of school psychologists. Experiences will be individually planned to include assessment, direct interventions, indirect interventions and evaluation/research.

Prerequisite(s): ESPY 8737, admission to EDS in School Psychology, and proof of professional liability insurance.

ESPY 8739 School Psychology Internship II**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Supervised field experience to provide the comprehensive range of experiences in the professional role of school psychologists. Experiences will be individually planned to include assessment, direct interventions, indirect interventions and evaluation/research.

Prerequisite(s): ESPY 8738, admission to EDS in School Psychology, and proof of professional liability insurance.

ESPY 8890 Directed Individual Study**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course permits specialization beyond regular course content through in-depth study of individually selected topics of interest and importance in school psychology or student services. The study will be directed by the instructor.

Prerequisite(s): Permission of advisor.

FILM Film

FILM 5010G Topics In Film**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Subject announced when course offered. For example, film genres, auteurs, critical approaches, and individual historical periods. May be repeated for additional credits when topics change.

FILM 5025G Pop Culture Theory & Criticism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examination of the theoretical and critical approaches to the study of various forms of popular cultural expression, such as film, television, popular literature, magazines, and music. Critical methodologies present may include semiotics, genre criticism, ethnography, feminism, and cultural studies.

FILM 5030G Television Theory & Criticism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Critical examination of various aspects of television, such as genres, social implications, historical significance, and modes of production.

FILM 5035G Film Theory and Criticism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to the major schools of film theory and criticism and their application to selected film texts.

FILM 5040G Women And Film
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**FILM 5510G Film And Literature**
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Relationship between film and literature with special emphasis on the adaptation of literature into film.

FINC Finance

FINC 3130 Financial Tools and Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Fundamental concepts and analytical methods in finance. Emphasis on spreadsheet applications, mathematics of finance, and statistical analysis.
Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 3131 Principles of Corporate Finance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of fundamental concepts, theories, tools of analysis and problems of managerial finance in business.
Prerequisite(s): A minimum grade of "C" in ACCT 2101 or ACCT 2030.

FINC 3132 Intermediate Financial Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of financial risk and return, capital budgeting, valuation, capital structure, working capital management and current topics in financial management.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 3133 International Finance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of the financial markets and institutions which make international trade and capital flows possible. Its emphasis is on understanding exchange rates and hedging the risks inherent in cross-border transactions.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 3134 Enterprise Risk Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the identification, evaluation, financing and control of both financial and business risk and the techniques that are used to manage cash inflows and outflows in such a way as to maximize the value of the firm. Integrated risk management of the entire business enterprise is emphasized throughout the course. Risk management techniques to include hedging, diversification, risk transfer and insurance are examined.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 3231 Investments
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of investment theory and practice, investment strategies and portfolio construction and management. Particular attention is given to the valuation of common stock, bonds, and derivative securities, such as options and futures.

Prerequisite(s): A minimum grade of "C" in FINC 3131 and FINC 3132.

FINC 3331 Financial Institutions
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of the nature, purpose and economic functions of financial markets and institutions. The various domestic and foreign financial markets are included, as well as the key characteristics, operations, and regulatory aspects of depository and non-depository financial institutions, such as commercial banks, securities firms and investment banks, and insurance companies.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 3531 Principles of Risk and Insurance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introductory study of the risk management process and the importance of insurance as a method of managing risk. This course is meant to develop awareness of the nature of risk, its effects on both individual and business financial decisions, and the methods available for managing risk.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 4030 Special Topics in Finance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A course that will allow students to learn about timely specialized topics that are not part of the regular curriculum in Finance, including but not limited to Small Business Start-Up Finance, Credit Derivatives, and Federal Reserve Policy.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 4150 Fixed Income Securities
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Five major debt markets (corporate, government and agency, municipal, asset backed, and funding markets) including key institutions and analytical tools used for pricing and risk management. Applications include topics such as investing in fixed-income securities.

FINC 4170 Financial Derivatives
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Futures, options, and other related financial instruments, focusing on pricing methodologies and market value calculations and on their uses for hedging and trading by corporations and financial institutions. Applications include topics such as financial risk management and investment.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 4231 Personal Financial Planning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of fundamentals of personal financial planning to include: the financial planning process, asset management, liability management and risk management.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 4232 Security Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines some of the key assumptions underlying the major areas of investments, i.e. portfolio theory, derivative asset pricing, and asset valuation. It provides a thorough examination of various topics found in the academic as well as financial press.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 4233 Estate Planning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Planning for various financial contingencies, and asset management on a personal level. Creating an integrated financial plan using insurance, investments, taxes and trusts.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 4234 Personal Insurance Planning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of alternative methods of managing the primary pure risk exposures of individuals: life, health and property-casualty risks. The course emphasizes the use of insurance as the primary tool for managing hazard risks facing households.

Prerequisite(s): A minimum grade of "C" in FINC 3131.

FINC 4331 Bank Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an introduction to the commercial bank industry, its organization, structure, and regulation. The lending and investment functions of banking are examined along with liability and capital management issues including de novo banking and merger/acquisition. Its purpose is to offer an overview of commercial banks and their delivery role in the financial services industry.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**FINC 4332 Current Topics in Banking and Financial Markets****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of current issues and topics impacting commercial banking and financial markets. Specific topics will change over time, but will focus on timely practical issues related to bank operations and activities in a competitive global environment with changing economic, regulatory, and technological forces. The course examines key issues in modern financial markets that impact both banks and non-bank financial entities.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**FINC 4333 Commercial Bank Lending****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to bank lending, focusing on key concepts and tools in credit analysis "statement logic and cash flow cycles" and applying them in commercial loan underwriting and consumer lending. Attention will also be given to core loan administration practices and its role in managing portfolio quality risks.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**FINC 4431 Principles of Real Estate****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers a real estate transaction in enough depth to guide the student through a transaction with minimal outside help (attorney, etc.). It also helps the student identify those economic factors that will add value to the property through time. In addition, the student will be introduced to several areas of real estate as a possible profession.

Prerequisite(s): Junior Standing.**FINC 4433 Real Estate Appraisal****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of the valuation of real estate and of ownership rights in real estate. Concentration is primarily on residential real estate.

Prerequisite(s): Junior standing.**FINC 4435 Real Estate Finance and Investments****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analysis of real estate markets, investment decisions and the form and function of financing alternatives. The student should acquire a basic understanding of investment cash flow analysis and the calculations and measurements required for the quantitative real estate investment, valuation and income-property analysis.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**FINC 4532 Life, Health and Retirement Planning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analysis of personal and business life and health insurance needs, characteristics of plans appropriate to meet needs, and unique legal and tax aspects in insurance planning. This includes a study of basic concepts and managerial concerns underlying the group insurance mechanism and the characteristics of various qualified retirement planning vehicles. Consideration is also given to functional aspects of life insurer operations such as ratemaking, reserving, underwriting and financial statement analysis.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**FINC 4534 Commercial Risk Management and Insurance****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course involves property and liability risks and the effective management of these risks with insurance. Application of property insurance to pure risk exposures including direct and indirect property. Application of liability insurance to general liability and catastrophic liability risks. Current topics in the field of commercial property and liability insurance.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**Cross Listing(s):** ECON 4534.**FINC 4535 Insurance Industry Operations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A discussion of the composition and financial structure of the insurance industry. Functional analysis of the operations of insurance organizations will include legal organization, marketing systems, management and control, underwriting, rating, financial analysis, ratemaking and regulation.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**FINC 4536 Financial Certifications****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides students with in-depth knowledge about portfolio management and financial analysis through real world applications and professional certifications related to business and financial data computer software.

Prerequisite(s): A minimum grade of "C" in FINC 3131 and approval of instructor(s).**FINC 4631 Eagles on Wall Street****3 Credit Hours. 1 Lecture Hour. 0 Lab Hours.**

This course will introduce students to the important topics of Wall Street finance, investment banking, and the financial markets of New York City. Students will meet with executives from the world's most prestigious banking, investment, and financial services firms. Because New York City (NYC) is one of the most important financial centers in the world, the location and setting will provide an excellent backdrop for the topics covered. Furthermore, NYC offers many venues that can be visited by the class to illustrate and reinforce the concepts discussed in the classroom. The classroom portion of the course will give students a broad overview of different sectors of the financial world while the travel portion will provide a chance for students to network with established professionals. Students could easily use this experience as a starting point to launch a Wall Street career. Regardless of a student's intended career path, this course will broaden horizons and introduce students to the many opportunities available on Wall Street and in the field of finance. Expenses specific to the travel portion of the course may vary.

Prerequisite(s): A minimum grade of "C" in FINC 3131.**Cross Listing(s):** ECON 4631.**FINC 4790 Internship in Finance****3-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The student is required to work with/for a manager of the enterprise in a management training or special projects capacity. Management level responsibilities and duties are expected of the student.

FINC 4830 Special Problems in Finance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A customized course that is under the direction of a faculty sponsor. The course is designed to offer students an opportunity to pursue studies at a level or on topics not covered in scheduled courses. The scope and nature of the material covered is determined in consultation with the faculty sponsor.

Prerequisite(s): Junior standing.**FINC 4890 Directed Study in Finance****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Designed for independent study and research in selected areas of finance under faculty supervision.

Prerequisite(s): Permission of Department Chair.

FORL Foreign Language

FORL 1090 Selected Topics in Foreign Languages

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Elementary level foreign language topic.

FORL 2090 Intermediate Foreign Language

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Study of a foreign language at the Intermediate level. Continued building upon proficiency skills (speaking, writing, listening, and reading) and cultural understanding. Focus on development of the ability to create with the language, to resolve simple situations, to ask and answer questions, and to begin to describe in detail and to narrate.

FORL 3030 Selected Topics in Foreign Languages

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Study of a topic in Foreign Languages literature, culture, society, thought or language not included in the regular offering. Continued development of all five language competencies (listening, speaking, reading, writing, and culture). May be repeated for credit provided a new topic is studied.

Prerequisite(s): A minimum grade of "C" in FORL 2090.

FORL 3100 Exploring World Languages and Cultures

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An exploration of diverse languages, cultures, customs, and traditions. Students identify tools and strategies necessary for effective intercultural competency and learn the benefits of studying languages and cultures in an increasingly multicultural world.

FORL 3431 Foreign Languages Methods P 8

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course includes the study of the historical, theoretical, and practical dimensions of materials and methodology in foreign language education. Through lectures, discussions and class activities, students will become familiar with the theory and practice of teaching foreign languages at the P-8 level. These activities include the reading and discussion of text materials; development of unit plans, lesson plans, and assessment instruments, evaluation of materials and in-class demonstrations of teaching techniques.

Prerequisite(s): Successful completion of the Pre-Professional Education Block and admission to Teacher Education Program.

FORL 3432 Foreign Lang Methods 9 to 12

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course includes the study of the historical, theoretical, and practical dimensions of materials and methodology in foreign language education. Through lectures, discussions and class activities, students will become familiar with the theory and practice of teaching foreign languages at the 9-12 level. These activities include the reading and discussion of text materials; development of unit plans, lesson plans, and assessment instruments, evaluation of materials and in-class demonstrations of teaching techniques.

Prerequisite(s): Successful completion of the Pre-Professional Education Block and admission to Teacher Education Program.

FORL 3750 Internship I - Pre-Student Teaching

3 Credit Hours. 0 Lecture Hours. 1-15 Lab Hours.

Opportunity to observe and participate in classroom activities in a supervised P-12 public school setting.

FORL 4030 Selected Topics in Foreign Languages

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Study of a topic in Foreign Languages literature, culture, society, thought or language not included in the regular offering. Continued development of all five language competencies (listening, speaking, reading, writing, and culture). May be repeated for credit provided a new topic is studied.

Prerequisite(s): A minimum grade of "C" in FORL 2090.

FORL 4393 Practicum in Foreign Language Education

1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Provides field experience opportunities for students pursuing a bachelor's degree in Spanish, French, or German education to relate principles and theories to actual practice in diverse educational settings.

FORL 4750 Internship II - Student Teaching

12 Credit Hours. 0 Lecture Hours. 1-12 Lab Hours.

Supervised field-based teaching experiences providing the opportunity to use knowledge and skills in a P-12 public school setting.

FORL 4790 Internship in Foreign Languages

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Internship in non-English language.

Prerequisite(s): Departmental approval.

FORL 4890 Directed Study in Foreign Languages

1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Concentrated study of a topic in literature, culture, society thought or language. May be repeated for credit provided a new topic is studied.

Prerequisite(s): Department approval.

FORL 5500 Foreign Language Exit Exam

0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This is a non-credit course that is required of BA-Modern Languages majors. Generally to be taken in the final semester of coursework in the language. Offered only in Fall and Spring. Permission of advisor or chair required.

Prerequisite(s): Departmental approval.

Cross Listing(s): FORL 5500G.

FORL 5030G Selected Topics in Foreign Languages

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Selected topics in foreign languages.

Prerequisite(s): Department approval.

FORL 5500G Foreign Language Exit Exam

0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This is a non-credit course that is required of MA-Spanish and MAT-Spanish graduates. Generally to be taken in the final semester of coursework in the language. Offered only in Fall and Spring. Permission of advisor or chair required. Graduate students will be assigned extra work that undergraduates will not be required to do.

Prerequisite(s): Department approval.

Cross Listing(s): FORL 5500.

FORL 6431 Foreign Language Methods P-8

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course includes the study of the historical, theoretical, and practical dimensions of materials and methodology in foreign language education. Through lectures, discussions and class activities, students will become familiar with the theory and practice of teaching foreign languages at the P-8 level. These activities include the reading and discussion of text materials; development of unit plans, lesson plans, and assessment instruments, evaluation of materials and in-class demonstrations of teaching techniques.

FORL 6432 Foreign Languages Methods 9-12

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course includes the study of the historical, theoretical, and practical dimensions of materials and methodology in foreign language education. Through lectures, discussions and class activities, students will become familiar with the theory and practice of teaching foreign languages at the 9-12 level. These activities include the reading and discussion of text materials; development of unit plans, lesson plans, and assessment instruments, evaluation of materials and in-class demonstrations of teaching techniques.

FORL 6433 Practicum in Foreign Languages
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides field experience opportunities for students pursuing the M.A.T., with content areas in a foreign language to relate principles and theories to actual practice in diverse educational settings.

Prerequisite(s): A minimum grade of "C" in FORL 6431 and FORL 6432.

FORL 6750 Teaching Internship**9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Supervised field-based teaching experience providing the opportunity to use knowledge and skills in a grades K-12 setting. for post-baccalaureate teacher certification.

FOUN Education Foundations

FOUN 5010G Educational Test & Measurement**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A beginning course in measurement which covers statistical methods, research design, and research problems. Students are provided experiences in the design, administration and evaluation of teacher made tests.

FRCT Curriculum Theory

FRCT 7130 Curriculum Theory and Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A comprehensive overview of the field of curriculum designed to develop the theoretical knowledge competencies and strategies needed by teachers and other curriculum developers at all levels of education to participate in the curriculum change process.

FREC Early Childhood

FREC 7232 Children's Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed for the graduate student who has some knowledge of children's literature. Attempts to update the student's knowledge of children's literature in the classroom and media center.

FREC 7233 Teaching Writing in the Elementary School**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The Teaching Writing in the Elementary School course provides students the opportunity for in-depth examination of both the process and products of writing in grades P-5. Students will explore the current trends and issues related to the teaching of writing in the P-5 classroom including development of writing curriculum and writing assessments.

FREC 7535 Teaching Middle & Secondary Math**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth study of current content standards, methods and assessment strategies for teaching middle grades and secondary mathematics.

FREN French

FREN 1001 Elementary French I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to listening, speaking, reading, and writing in French with further study of the culture of French-speaking regions.

FREN 1002 Elementary French II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continued listening, speaking, reading, and writing in French with further study of the culture of French-speaking regions.

Prerequisites: A minimum grade of "C" in FREN 1001.

FREN 1060 Accelerated Elementary French**6 Credit Hours. 6 Lecture Hours. 0 Lab Hours.**

An accelerated introduction to listening, speaking, reading, and writing in French and to the culture of French-speaking regions. Completes the elementary levels of French in one semester.

FREN 2001 Intermediate French I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Building upon communication skills (understanding, speaking, reading, and writing French) and cultural understanding, developed at the elementary level.

Prerequisite(s): A minimum grade of "C" in FREN 1002 or FREN 1060 or at least two years of high school French with a minimum grade of "B".

FREN 2002 Intermediate French II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continued focus on communication skills and cultural understanding.

Prerequisite(s): A minimum grade of "C" in FREN 2001.

FREN 2010 Intermediate Conversation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of conversational techniques, integrating grammatical structures and appropriate vocabulary. Emphasis is given to practicing spoken French and to using audio programs to increase listening comprehension. Attention is also given to pronunciation and phonetics.

Prerequisite(s): FREN 2002.

FREN 2060 Accelerated Intermediate French**6 Credit Hours. 6 Lecture Hours. 0 Lab Hours.**

Accelerated intermediate French with continued work on listening, speaking, reading, and writing in French and the culture of French-speaking regions. Completes the intermediate levels of French in one semester.

Prerequisite(s): A minimum grade of "C" in FREN 1002 or FREN 1060.

FREN 3001 French Conversation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will help students develop their oral communication skills, from leaving an informal voicemail to participating in an academic debate. Attention is also given to grammatical structures. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3002 Techniques in Writing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course students develop and practice written communication skills from informal messages to academic writing. Emphasis is also given to reviewing grammar in the context of written language. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3010 French Media**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Increasingly, we use media to better understand the world around us. In this interdisciplinary and collaborative course, students will develop creative media projects, gain critical thinking and writing skills. Subjects of study include: the argument in media, formal analysis, media criticism, censorship, and the history of media (print media, photography, film, radio, television, and digital media). This course offers an in-depth examination of the first filmmakers in history, the Lumière brothers, and freedom of expression cases, such as Je Suis Charlie. A significant emphasis will be put on mass media and its impact upon public opinion, that's why following current events will be essential. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3020 French for Science and Technology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This advanced course is designed to improve French skills in the sciences. Students will explore innovative areas of scientific study, while expanding their speaking, reading, and writing skills needed to share scientific information within a community. Students will learn about French scientists, the history of science, impacts and effects of scientific phenomena, cause and effect, while developing their own research skills. Conducted in French.

Prerequisite(s): A min grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3030 Selected Topics in French**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

This course involves the study of a topic in French literature, culture, society, thought or language not included in the regular course offerings. Students focus on the continued development of all five language competencies (listening, speaking, reading, writing, and culture). This course may be repeated for credit provided a new topic is studied. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060.

FREN 3040 French through the Arts**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

French Art is one of the major attractions of France as a cultural tourist destination. People come from all over the world to admire cathedrals, mosaics, châteaux, museums, sculptures, tapestries, music festivals, and plays, their stunning artistic and cultural value in general. In the nineteenth century, Paris became the world capital of art and it was here that modern European art was born, leading to a reexamination of the meaning and purpose of art. This course will explore some of the greatest names (Leonardo da Vinci, Monet, Rodin...) and the development of art through its historic movements (Medieval, Gothic, Renaissance, Baroque, Rococo, Romanticism, Realism, Impressionism, Modern...). Over the centuries, France has contributed extensively to the common cultural heritage of humanity. Conducted in French.

Prerequisite(s): A min grade of 'C' in FREN 2002 or FREN 2060 or departmental approval.

FREN 3100 French Culture and Civilization I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of French culture and civilization from the first men who inhabited the caves of Southern France to the magnificent spectacle of Versailles. Students will discover the way of life of each epoch by analyzing its art, political discourse, architecture, literature, and customs. This course covers Prehistoric times, the Roman era, the Middle Ages, the Renaissance, and the Grand Siècle of the Sun King. Conducted in French.

Prerequisite(s): A min grade of 'C' in FREN 2002 or FREN 2060 or departmental approval.

FREN 3110 French Culture and Civilization II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In the past three centuries, France has lived through numerous revolutionary regime changes: monarchies, empires, republics, Vichy. This course will evaluate how these changes came to be, and how the culture and identity of France have been transformed. Students will discover the way of life of each epoch by analyzing art, politics, architecture, literature, and customs. This course spans the Enlightenment to the mid-twentieth century. Conducted in French.

Prerequisite(s): A minimum grade of 'C' in FREN 2002 or FREN 2060 or departmental approval.

FREN 3130 Great Debates**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course offers an opportunity for students to improve their speaking and listening abilities. Using French language skills, students will engage in thematic discussions, prepare structured arguments for a variety of historical and contemporary topics, which may be social, political, or cultural in nature. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3132 French Through Literature: The Short Story**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continued development of all five language competencies through the study of selected short stories representative of the main periods and styles. Course work includes oral reading, writing, and grammar activities. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3134 Creative Writing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course offers an introduction to creative writing in French. Using their French language skills, students can expect to work on producing elements of personal narratives, fictional accounts, poetry, and other creative narratives. Throughout the semester, students will work on aspects of the creative process including the crafting of a story, elements of narrative writing, style, rewriting, and editing. Coursework will include in-class discussion, writing workshops, peer-review, and editing, as well as reading and writing assignments. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3136 French Through Film**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course gives students a synthetic vision of the history of French cinema, since its invention by the Lumière brothers until today. A diverse range of cinematic genres (comedy, science-fiction, drama, documentary) and movements (l'avant-garde, les années noires et grises, la Nouvelle Vague) will underline profound cultural transformations in the French speaking world. Students will also analyze basic concepts of cinema, such as directing, production, sound, film-narrative, lighting, and editing. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3160 Francophone Cultures**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

French is spoken in a variety of countries, on different continents, due to either cultural heritage or historical past. Understanding and analyzing the diverse Francophone cultures and civilizations will be an integral part of this course. Topics discussed will include traditions, food, daily life, history, society, art, and cinema of the societies involved. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or 2060 or departmental approval.

FREN 3195 Studies Abroad: Language**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continued development of all five language competencies (listening, speaking, reading, writing, and culture) with strong emphasis on everyday functions essential to living in France. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060, department approval.

FREN 3201 Approaches to Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introductory study of the major literary genres and movements from the Middle Ages through the present, as well as an analysis of basic literary terms and figurative language. Texts will include works of prose, poetry, and theater. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3230 French Literature I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of major literary works, authors, and movements within France from the Middle Ages through the Seventeenth Century. Readings may include tales of the knights of the Round Table, fables, poems, essays, and classic comedies and tragedies. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3260 Francophone Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will engage with different historical, artistic, political, and philosophical approaches to the literature of the French-speaking world. This course may include themes of diaspora, exile, immigration, independence, creativity, identity, human rights, autonomy, and language. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3300 French Phonetics and Phonology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will help students better their pronunciation and understanding of the French language through an in-depth analysis of sounds and the rules that govern French as it is spoken around the world today. Students will learn how sounds are produced, which sounds belong to the French language, and how spelling relates to pronunciation. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3330 Medical French**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Language and cultural barriers may interfere with the ability to provide high quality care to patients. That's why effective communication is essential in healthcare professions. This course is specifically designed to include healthcare topics, such as communication strategies, basic commands, food and drink, good cheer, visiting hours and family, patient orientation and comfort, pain and discomfort, symptoms and treatment, prevention, instructions and medications, numbers and tests, basic procedures, hospital regulations, insurance and payment. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3336 Francophone Cinema**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continued development of all five language competencies (listening, speaking, reading, writing, and culture) with a focus on Francophone cinema. This course may include themes of diaspora, exile, immigration, independence, creativity, identity, human rights, autonomy, and language. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3395 Studies Abroad: Culture**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continued development of all five language competencies (listening, speaking, reading, writing, and culture) through the study of a geographic region in France based on residential study in the region. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060.

FREN 3400 Business in the French-Speaking World**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of business practices in the French-speaking world. Diverse authentic media sources will be used. Emphasis will be put on leadership, correspondence, innovative ideas, as well as team-building, ethics, and soft skills in the business world. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3530 Translation: Theory and Practice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will explore different approaches to translation and develop an understanding of the links between theory and practice. The frameworks introduced in this course, are applied to real-life translation examples, such as corporate advertising, media, video, speech, documents, forms, etc. Translation topics will include: linguistic and cultural interpretations, translation behavior, collaborative translation, and translation tools.

Students will also develop an awareness of the wider cultural, ethical, and professional contexts of translation. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 3595 Made in France: The French Brand**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

While brands are a relatively new concept in the history of civilization, the French have long used material culture to display and export their ideas and values. Versailles was Europe's first runway, aristocracy French clothes, jewelry, cosmetics, and even philosophy, for the rest of world to see, admire, and desire. If the logos of Chanel and Louis Vuitton have replaced the family crests of the Valois or Bourbon houses, contemporary French brands persevere at the forefront of luxury, science, gastronomy, technology, and the arts. This course will examine how France has marketed itself as a nation for the past three centuries and how today's French brands continue to (re)create and export France's identity to the world. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4001 Advanced French Conversation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced study of spoken and written French, with emphasis on oral and written communication strategies, including the interpersonal and presentational modes, for communication in Francophone contexts. Attention is given to the grammatical structure of language.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4002 Advanced French Composition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced study of grammar, syntax, and vocabulary with refinement of writing skills through composition.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4020 Great Thinkers in French Studies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of influential philosophers, writers, and artists whose ideas changed world history. Emphasis on written and spoken French. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4030 Selected Topics in French**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of a topic in French literature, culture, society, thought, or language not included in regular offerings. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060.

FREN 4130 Advanced Grammar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will help students improve their accuracy in French through an intensive review of major grammatical structures. Students will practice all four skills (reading, writing, listening, and speaking) in a variety of contexts, such as narration in different time frames, description, supported opinion, argumentation, expressing wishes, and giving advice. Conducted in French.

Prerequisite(s): Minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4185 Studies Abroad: Speaking II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This is a course in oral communications in French using materials that are appropriate for building on advanced-level skills and which are related thematically to the country/culture visited.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060.

FREN 4210 French for Professions
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide students with language and cultural skills to work effectively in diverse fields of the global economy, such as tourism, medicine, fashion, or the food industry. Students will enhance their communication skills, learn how to tailor new vocabulary for specific professions, and construct documentation necessary for workplace success. Through class activities, students will simulate real work situations. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4230 French Literature II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An overview of major literary works, authors, and movements from the Eighteenth Century through the Twentieth Century. Students will analyze a variety of topics from the philosophy of the French Revolution to the art of the graphic novel. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4231 Performing French
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will focus on helping students improve in spoken French through performance and presentation. Students will use French to create formal presentations, such as the great monologues from classical theater, and informally, for applications such as developing a French language YouTube channel. Using French language skills, students will work on pronunciation and increase their language production. Materials for the course may include Poetry, theater, film (portions), and song. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4233 French Poetry
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of French poetry by major movements, from the late Middle Ages to the present, with an emphasis on reading strategies and poetic techniques and interpretation. Oral reports and discussions. Written analysis (explication de texte). Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4330 Contemporary France
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth study of present-day France, including its institutions, daily life, current events, and place in Europe and the world. Students will learn about the French way of life through the use of authentic materials (newspapers, magazines, TV, radio, and the Internet). Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4385 Studies Abroad: Writing II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This is a course in written communications in French using materials that are appropriate for building on advanced-level skills and which are related thematically to the country/culture visited.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060.

FREN 4530 Your Turn! Games in French
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Playing a game requires a large array of cognitive and linguistic skills: understanding and explaining rules, reasoning and strategizing, negotiating and bartering with other players, producing information and creating story-lines, etc. This course uses games to encourage students to become more proficient and creative in French. Games may include word games (Pyramid, Scattergories), board games (Carcassonne, Monopoly), role-playing games, React to the Past games, card games (Loup-Garou), and many more. Conducted in French.

Prerequisite(s): A minimum grade of "C" in FREN 2002 or FREN 2060 or departmental approval.

FREN 4890 Directed Study in French
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Concentrated study of a topic in French literature, culture, society, thought or language. May be repeated for credit provided a new topic is studied.

Prerequisite(s): Department approval.

FREN 4960 Study Abroad
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A term abroad of French study in conjunction with the University System of Georgia. Intensive instruction complemented by excursions. May be repeated for a maximum of 9 hours if topics are different.

Prerequisite(s): FREN 1002.

FREN 4991 Senior Seminar
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An all-inclusive communication skills course. This course focuses on the four basic skills: reading, listening, speaking and writing. It is designed to access and reinforce the skills the students has acquired as a French major. Required of all French majors.

FREN 5090 Selected Topics in French
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Study of a topic in French literature, culture, society, thought, or language not included in regular offerings. Conducted in French.

Cross Listing(s): FREN 5090G.

FREN 5090G Selected Topics in French
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Study of a topic in French literature, culture, society, thought, or language not included in regular offerings. Conducted in French. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): FREN 5090.

FREN 7030 Selected Topics in French
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Study of a topic in French literature, culture, society, thought, or language not included in regular offerings. Conducted in French.

FREN 7091 Seminar in French
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics to be selected by the instructor. Conducted in French.

FREN 7890 Directed Study in French
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Independent study under faculty supervision.

FRER Educational Research

FRER 7130 Educational Research
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A comprehensive overview of topics related to research as it is applied to educational settings. Emphasis is placed upon methods of quantitative and qualitative research, especially in regard to applied and basic research in education.

Cross Listing(s): EDUR 7130.

FRIT Instructional Technology

FRIT 7090 Selected Topics in Instructional Technology

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Promotes specialized training in new and/or emerging instructional technologies/methodologies or topics appropriate to the needs of in-service personnel. Attention will be given to a range of specific needs as they reach special significance in local school systems.

FRIT 7090A Selected Topics in FRIT

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Promotes specialized training in new and/or emerging instructional technologies/methodologies or topics appropriate to the needs of in-service personnel. Attention will be given to a range of specific needs as they reach special significance in local school systems.

FRIT 7090B Selected Topics in FRIT

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Promotes specialized training in new and/or emerging instructional technologies/methodologies or topics appropriate to the needs of in-service personnel. Attention will be given to a range of specific needs as they reach special significance in local school systems.

FRIT 7090C Selected Topics in FRIT

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Promotes specialized training in new and/or emerging instructional technologies/methodologies or topics appropriate to the needs of in-service personnel. Attention will be given to a range of specific needs as they reach special significance in local school systems.

FRIT 7090D Selected Topics in FRIT

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Promotes specialized training in new and/or emerging instructional technologies/methodologies or topics appropriate to the needs of in-service personnel. Attention will be given to a range of specific needs as they reach special significance in local school systems.

FRIT 7231 Instructional Design

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to develop the knowledge, skills, and dispositions of instructional technology leaders necessary for them to understand and apply a systematic process of instructional design to create effective technology-based instruction for learners with diverse needs.

FRIT 7232 Visionary Leadership in Instructional Technology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to develop the knowledge, skills, and dispositions of instructional technology leaders to inspire and lead the development and implementation of a shared vision for the effective use of technology to promote excellence and support transformational change throughout educational organizations.

FRIT 7233 Selection and Development of Digital Tools and Resources

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Selection and Development of Digital Tools and Resources provides competence in the selection, production, utilization, and evaluation of various formats of instructional technologies. Basic techniques are provided through direct experiences in the design and production of instructional technologies.

FRIT 7234 Information Fluency and Inquiry Learning

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an in-depth exploration of digital learning models and relevant standards that focus on information fluency and inquiry learning. Emphasis is placed on the reflective use of technology to facilitate student learning through inquiry learning and the mastery of information fluency skills. Course assignments and activities focus on application of these concepts to the candidate's field of initial certification through collaboration with other teachers, media specialists, and technology specialists.

FRIT 7235 Digital Learning Environments

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on the effective utilization of digital technology in the instructional process and on systematic processes for using new technologies to enhance learning. Course content will focus on the knowledge, skills, and dispositions needed to create, support, and manage effective digital learning environments.

Prerequisite(s): Minimum grade of "C" in FRIT 7231.

FRIT 7236 Technology-Based Assessment and Data Analysis

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Technology-Based Assessment and Data Analysis prepares candidates to model and facilitate assessments throughout the curriculum and to analyze and interpret the data generated by those assessments. The use of digital tools and resources to measure, collect, analyze, interpret, and report those data is stressed.

FRIT 7237 Evaluation of Educational Needs and Programs

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Evaluation of Educational Needs and Programs covers the theory and practice of systematic investigation of instructional programs, projects, products, and processes. The course is designed to teach practitioners how to assess the need for and the effectiveness of educational endeavors such as quality improvement, enhancing organizational performance, or improving school curricula.

Prerequisite(s): Minimum grade of "C" in FRIT 7231.

FRIT 7330 The Internet in Schools

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides learners with a focused look at issues surrounding the implementation and use of emerging applications of the internet in schools.

FRIT 7331 Leadership of the School Library Media Program

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to the functions of the school library media center and the various roles of the school library media specialist. Topics include: program planning and development, budgeting, facility management, and public relations. Students will develop the skills necessary to strategically plan for innovation and continuous improvement of the school library media program.

FRIT 7332 The School Library Literacy Environment

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An overview of the processes and procedures associated with developing, organizing, maintaining, and evaluating the school library media collection. Emphasis is placed on intellectual freedom, principles of selecting materials in all formats, and utilization of technology to access physical and virtual collections. This course will introduce students to instructional strategies designed to promote reading for learning, personal growth, and enjoyment.

FRIT 7333 Storytelling

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is an introduction to the history, art, and techniques of oral storytelling. Techniques include the selection, adaptation, learning, and presentation of stories for all ages. Students will encounter a wide variety of stories from many different cultures, learn to identify resources for finding stories, develop skills in telling stories with ease and enthusiasm, and learn to evaluate the qualities that make stories age-appropriate for various grade levels.

FRIT 7335 Web Design and Development

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on the front-end aspects of web design: authoring, graphics production, and media development.

FRIT 7734 Practicum in School Library Media
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A culminating activity in the Instructional Technology program. Candidates are assigned specific experiences that implement content from the school library media certification program.

Prerequisite(s): Permission of advisor and completion of Transition Point #2.

FRIT 7739 Practicum in Instructional Technology
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course is designed as a capstone experience where students demonstrate the skills, knowledge, and dispositions necessary to serve in instructional technology roles in various educational settings including P-12 settings. An extensive field experience is required.

Prerequisite(s): Permission of advisor and completion of Transition Point #2.

FRIT 7765 Clinical Practice in School Library Media
6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course is a full-semester, culminating internship in Instructional Technology/School Library Media for non-certified candidates only. Candidates are assigned to a daily placement that implements content from the school library media certification program under the supervision of a school library media specialist.

Prerequisite(s): Advisor approval required.

FRIT 8435 Program Evaluation

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Program Evaluation covers the theory and practice of systematic investigation of instructional programs, projects products, and processes. The course is designed to teach practitioners how to assess the effectiveness of endeavors such as quality improvement, enhancing organizational performance, or improving school curricula.

Cross Listing(s): ITEC 8435.

FRIT 8532 Multimedia Tools and Applications

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Covers issues in the design and development of interactive multimedia instructional lessons. Covers the tools required for the creation of interactive multimedia and is organized around individual student projects.

FRLT Educational Foundations

FRLT 7130 Learning Theories and Applications

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the principles and theories of learning that serve as a basis for educational models, practice, and assessment. Special emphasis is given to recent empirical findings and to practical applications of theory to a variety of educational settings. This is a three credit hour class.

Cross Listing(s): EDUF 7130.

FRMS Middle & Secondary Ed

FRMS 7331 Early Adolescent Literature

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of pedagogical theory and practices for integrating contemporary early adolescent/young adult literature into the middle and secondary school curriculum. Course content will focus on making text selections, workshop approaches, literary circles, and reader response theory.

Cross Listing(s): MSED 7331.

FRMS 7535 Teaching Middle Grades and Secondary Mathematics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth study of current content standards, methods and assessment strategies for teaching middle grades and secondary mathematics.

FRMS 8231 Foundations of Teaching K-12 Mathematics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth analysis of the content and pedagogy of K-12 mathematics. Emphasis will be placed on a study of the research in K-12 mathematics curriculum and instruction, as well as the historical development of current mathematics content requirements. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

FRMS 8232 Trends: Math/Science/Computer Education

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Current trends and issues in teaching mathematics, science, and computing technology in the schools. Emphasis is placed on research findings, recommendations of professional organizations and effective practices that connect the teaching of mathematics and science, supported by computing technology. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

GCM Graphic Comm Management

GCM 1131 Graphic Communications Technology

3 Credit Hours. 0,2 Lecture Hours. 0,3 Lab Hours.

An introduction to careers, the printing processes and the steps involved in preparing images for production in graphic communications.

GCM 1321 Desktop Publishing

2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

This is a general course presenting the development, growth and influence of desktop publishing in today's society. The course presents the various hardware and software used in desktop publishing, as well as technologies that have evolved from desktop publishing. Students are introduced to typography and typographic principles, digital photography, scanning, image resolution, photo editing, imposition and their correct use in the creation of both everyday and formal communications. Students learn what makes an aesthetically pleasing document in both formal and informal settings.

Corequisite(s): GCM 1411.

GCM 1411 Desktop Publishing Laboratory

1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.

Through detailed instruction and problem solving activities, students use current desktop publishing hardware and software and apply various concepts learned in GCM 1321 (Desktop Publishing) including, drawing applications, page assembly, photo editing, digital photography, scanning, typography, aesthetics, image resolution and imposition.

Corequisite(s): GCM 1321.

GCM 1631 Introduction to Multimedia

3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

The course will introduce students to multimedia through its history, its various uses, and its different components. Students will create multimedia products and solve problems related to the creation of their components. Students will plan a multimedia presentation, create the various components and assemble those components into an effective multimedia presentation using current digital technologies.

GCM 2332 Bindery and Finishing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to orient the student to the various bindery, finishing, and distribution processes and practices common to the printing industry. Plant visits to bindery, finishing, and distribution firms.

Prerequisite(s): A minimum grade of "C" in GCM 1131.

Corequisite(s): GCM 2412.

GCM 2412 Bindery and Finishing Laboratory**1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

Designed to engage students with the processes and real world problems of bindery, finishing, and distribution processes and practices common to the printing industry. Plant visits to bindery, finishing, and distribution firms.

Prerequisite(s): A minimum grade "C" in GCM 1131.**Corequisite(s):** GCM 2332.**GCM 2432 Inks and Substrates****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the dynamic relationship between inks and the materials on which they are printed. Areas of concern include the manufacturing processes and characteristics of inks and papers, testing procedures used with inks and substrates.

Prerequisite(s): A minimum grade of "C" in GCM 1131.**GCM 2512 Desktop Publishing II Laboratory****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

A laboratory experience that uses detailed instruction and problem solving activities, which students complete through the use of current desktop publishing hardware and software. This course supports the concepts learned in Desktop Publishing II (GCM 2532) through hands-on activities.

Topics include digitizing originals, file format usage and creation, file preflight, image trapping, digital imposition, advanced image editing techniques and concepts and advanced desktop publishing techniques and concepts.

Prerequisite(s): A minimum grade of "C" in GCM 1321 and GCM 1411.**Corequisite(s):** GCM 2532.**GCM 2532 Desktop Publishing II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course builds on the concepts learned in Desktop Publishing (GCM 1321) and expands on the relationship between desktop publishing and digital prepress. Students examine the techniques and technologies used to create the visual images we see all around us. The concepts taught move the student from beginning desktop publishing into the world of digital prepress. Topics include the prepress working environment, hardware and software considerations, font and file management, bitmap and vector graphics, digital image characteristics, digital imposition, and digital image trapping.

Prerequisite(s): A minimum grade of "C" in GCM 1321, GCM 1411.**Corequisite(s):** GCM 2512.**GCM 2721 Industrial Practicum****2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed for direct observation and work experience with the local printing industry. The student is exposed to problems, practices, management structures, and work ethics.

Prerequisite(s): A minimum grade of "C" in GCM 1131, GCM 1321.**GCM 3110 Instructional Assistance****1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.**

A supervised experience in the instructional process (on the university level) through direct participation in a laboratory situation. Grading is evaluated on a satisfactory/unsatisfactory basis only. This course may be repeated for a total of three semester hours.

Prerequisite(s): Departmental approval required.**GCM 3130 Customer Service for Graphic Communications****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course designed to acquaint the students with duties and responsibilities associated with customer service for graphic communications management.

GCM 3231 Print Media Processes**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

An intermediate technical study of lithography, flexography, screen and specialty printing and digital outputs processes and the image preparation requirements for each. The course will provide experiences that demonstrates the similarities and differences of print media and discuss criteria for choosing one versus another. Students will gain a greater understanding of the mass production options available for graphic communication.

Prerequisite(s): A minimum grade of "C" in GCM 1131, GCM 1321, GCM 1411.**GCM 3735 Graphic Communications Internship I****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed for students to receive practical work experience with an approved graphic communications firms. A minimum of 400 contact hours with the host site is required.

Prerequisite(s): A minimum grade of "C" in GCM 1131 and a minimum 7 hours from GCM 2432, GCM 2332, GCM 2412, GCM 2532, GCM 2512.**GCM 3745 Graphic Comm Internship I****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed for students to receive practical work experience with an approved graphic communications firms. A minimum of 480 contact hours with the host site is required. Graphic Communications Management Majors.

Prerequisite(s): A minimum grade of "C" in GCM 2721.**Cross Listing(s):** GCM 3735.**GCM 4132 Screen and Specialty Printing****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course introduces the student to the methods, procedures and technologies used in the screen and specialty printing industry, including screen printing, pad printing, sublimation printing and embroidery. Projects and discussions involve the various production methods and material requirements. Experiences include planning, image preparation, image carrier preparation, single and multi-color printing, medium curing and drying, finishing and hands-on experiences with the various process.

Prerequisite(s): A minimum grade of "C" in GCM 3231.**GCM 4232 Photo Preparation for Reproduction****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

A combination of traditional and digital photography techniques is used to enhance the quality of the original photograph. The focus of the class is on creating images which maximize resolution while reducing editing requirements. Students choose and use various lighting arrangements and output techniques to improve final image quality.

Prerequisite(s): A minimum grade of "C" in GCM 1131 and MMJ 3333.**GCM 4736 Graphic Communications Internship II****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed for students to further their industry experience beyond GCM 3735. A minimum of 400 hours contact hours with the host site is required.

Prerequisite(s): A minimum grade of "C" in GCM 3735 or GCM 3745.**GCM 4899 Independent Study****1-3 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.**

Independent study is available for the student to undertake individualized experimentation, research, or study related to the printing industry. The specific topic will be determined and approved by the faculty and the student prior to the semester in which the course is taken. Academic credit is assigned to the independent study commensurate with the magnitude of the study.

GCM 5090 Selected Topics in Graphic Communications**1-3 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.**

This course is scheduled on an infrequent basis to explore special areas in technology and will carry a subtitle. Credit is variable from 1 to 3 semester hours. This special topics course is in keeping with established policies for offering a structured course on an infrequent basis. It will allow faculty to offer a course on a trial basis for possible approval at a later date.

Cross Listing(s): GCM 5090G.**GCM 5234 Color Reproduction****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An exploration of professional color reproduction concepts and procedures related to the graphic communications and information technology industries. Topics include color theory, copy evaluation, color separation methods, color reproduction variables, color separation hardware and software, and color management systems.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Corequisite(s):** GCM 5314.**Cross Listing(s):** GCM 5234G.**GCM 5314 Color Reproduction Laboratory****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

This is a hands on laboratory course. The laboratory activities include the following: test for abnormal color vision, color measurement and evaluation, color standards, color proofing, color scanning, color reproduction methods, color management systems, color reproduction techniques using Photoshop and other software.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Corequisite(s):** GCM 5234.**Cross Listing(s):** GCM 5314G.**GCM 5331 Flexography****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Introduction to the flexographic printing industry. Discussions will include the design, techniques, processes, and manufacture of flexographic printed products. Activities will include setup and operation of a flexographic press.

Prerequisite(s): A minimum grade of "C" in GCM 3231.**Cross Listing(s):** GCM 5331G.**GCM 5332 Multimedia Presentations****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Multimedia Presentations is the study of digital imaging applications for presentations. The course covers the creation of digital components for multimedia presentations, including sound, graphics, animation, and video technique, and their use in multimedia presentations for video, CD ROM, and the Internet.

Prerequisite(s): A minimum grade of "C" in GCM 1631.**Cross Listing(s):** GCM 5332G.**GCM 5334 Imaging Systems****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Imaging Systems is an in-depth course of how to effectively use, organize, and link imaging workstations, peripherals, systems, and files for information imaging. Current trends and issues of the industry are also covered.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Cross Listing(s):** GCM 5334G.**GCM 5335 Graphic Communications Management Topics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course topics focus specifically on managerial decisions as they uniquely apply to graphic communications, such as: facilities planning and production flow, trade customs, contracts, and quality control and testing.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Cross Listing(s):** GCM 5335G.**GCM 5434 Lithographic Reproduction****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Designed to introduce the student to image assembly for presswork. Topics include imposition layouts, image assembly, platemaking, proofing systems, press operation and safety.

Prerequisite(s): A minimum grade of "C" in GCM 3231.**Cross Listing(s):** GCM 5434G.**GCM 5534 Digital Output Applications****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Covers the utilization of electronic imaging technologies for output applications for information imaging. Specific topics include internet development and management, and print-on-demand development and management.

Prerequisite(s): A minimum grade of "C" in GCM 3231.**Cross Listing(s):** GCM 5534G.**GCM 5535 Estimating for Print Production****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Acquaints the student with various types of estimating practices used for print production. The student will learn how to measure cost centers, calculate materials used and conceptualize the production process.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Cross Listing(s):** GCM 5535G.**GCM 5090G Selected Topics in Graphic Communications****1-3 Credit Hours. 0-3 Lecture Hours. 0-6 Lab Hours.**

This course is scheduled on an infrequent basis to explore special areas in technology and will carry a subtitle. Credit is variable from 1 to 3 semester hours. This special topics course is in keeping with established policies for offering a structured course on an infrequent basis. It will allow faculty to offer a course on a trial basis for possible approval at a later date.

Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Cross Listing(s): GCM 5090.**GCM 5234G Color Reproduction****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An exploration of professional color reproduction concepts and procedures related to the graphic communications and information technology industries. Topics include color theory, copy evaluation, color separation methods, color reproduction variables, color separation hardware and software, and color management systems. Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Prerequisite(s): A minimum grade of "C" in GCM 3745 (Graphic Communications Management majors only, IT second discipline students and GCM minor students should consult with the assigned GCM program advisor).

Corequisite(s): GCM 5314G.**Cross Listing(s):** GCM 5234.**GCM 5314G Color Reproduction Laboratory****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

This is a hands on laboratory course. The laboratory activities include the following: test for abnormal color vision, color measurement and evaluation, color standards, color proofing, color scanning, color reproduction methods, color management systems, color reproduction techniques using Photoshop and other software. Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Corequisite(s):** GCM 5234G.**Cross Listing(s):** GCM 5314.

GCM 5331G Flexography**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Introduction to the flexographic printing industry. Discussions will include the design, techniques, processes, and manufacture of flexographic printed products. Activities will include setup and operation of a flexographic press. Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Prerequisite(s): A minimum grade of "C" in GCM 3231.**Cross Listing(s):** GCM 5331.**GCM 5332G Multimedia Presentations****3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Multimedia Presentations is the study of digital imaging applications for presentations. The course covers the creation of digital components for multimedia presentations, including sound, graphics, animation, and video technique, and their use in multimedia presentations for video, CD ROM, and the Internet. Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Prerequisite(s): A minimum grade of "C" in GCM 1631.**Cross Listing(s):** GCM 5332.**GCM 5334G Imaging Systems****3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Imaging Systems is an in-depth course of how to effectively use, organize, and link imaging workstations, peripherals, systems, and files for information imaging. Current trends and issues of the industry are also covered. Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Cross Listing(s):** GCM 5334.**GCM 5335G Graphic Communications Management Topics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course topics focus specifically on managerial decisions as they uniquely apply to graphic communications, such as: facilities planning and production flow, trade customs, contracts, and quality control and testing. Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Cross Listing(s):** GCM 5335.**GCM 5434G Lithographic Reproduction****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Designed to introduce the student to image assembly for presswork. Topics include imposition layouts, image assembly, platemaking, proofing systems, press operation and safety. Graduate students will do a research project related to course content and present their finding to the class.

Prerequisite(s): A minimum grade of "C" in GCM 3231.**Cross Listing(s):** GCM 5434.**GCM 5534G Digital Output Applications****3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Covers the utilization of electronic imaging technologies for output applications for information imaging. Specific topics include internet development and management, and print-on-demand development and management. Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Prerequisite(s): A minimum grade of "C" in GCM 3231.**Cross Listing(s):** GCM 5534.**GCM 5535G Estimating for Print Production****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Acquaints the student with various types of estimating practices used for print production. The student will learn how to measure cost centers, calculate materials used and conceptualize the production process.

Graduate students will be given an extra assignment determined by the instructor that undergraduates are not required to complete.

Prerequisite(s): A minimum grade of "C" in GCM 3745.**Cross Listing(s):** GCM 5535.

GEOG Geography

GEOG 1101 Introduction to Human Geography**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of global patterns of resources, population, culture, and economic systems. Emphasis is placed upon the factors contributing to these patterns and the distinctions between the technologically advanced and less advanced regions of the world.

GEOG 1110 Climate and the Landscape Lab**1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

A series of laboratories and exercises designed to provide hands-on applications of general theories regarding earth processes discussed in GEOG 1111, Climate and the Landscape.

GEOG 1111 Physical Geography**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The earth's surface in its areal differentiation. Focuses on the various elements of physical geography that act as a foundation to the discipline, including location and interaction of physical surficial phenomena.

GEOG 1130 World Regional Geography**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of geographic regions of the world emphasizing physical landscapes, resources, economies, culture and politics. Selected problems or situations of contemporary interest will be incorporated.

GEOG 3330 Weather and Climate**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Elements and controls of weather and climate and the distribution and characteristics of climate regions.

Prerequisite(s): GEOG 1111.**GEOG 3440 Introduction to GIS and Cartography****4 Credit Hours. 0,2 Lecture Hours. 0,4 Lab Hours.**

An introduction to the basic concepts, theories, techniques, and applications of Geographic Information Systems (GIS) and cartography. Students will learn and apply GIS and cartographic concepts to gain extensive hands-on experience in thematic mapping and manipulation of geo-referenced spatial information using GIS software.

GEOG 4120 Introduction to Research**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The process of research utilizing the scientific method will be studied. Research methods in human and physical geography are discussed and critiqued. Methodologies including literature searches, topic selection and refinement, and research problem solving will be discussed. A proposal for a research project will be selected or assigned, a proposal written, and an oral presentation of the proposed research will be made. A minimum grade of "B" is required to continue in the research sequence.

Prerequisite(s): Permission of instructor required.**GEOG 4131 Geography of the American South****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Systematic regional treatment of the South including the physical, cultural and economic aspects of its various regions.

GEOG 4232 Geography of Latin America**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the physical, cultural and economic geography of Latin America, including Mexico.

Cross Listing(s): LAST 4232.

GEOG 4233 Geography of Asia**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the physical, cultural, political and economic geography of the countries of Asia. Selected problems or situations of contemporary interest will be incorporated.

GEOG 4330 Geography of Africa South of the Sahara**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the physical, cultural, political and economic geography of Africa south of the Sahara Desert. Selected problems or situations of contemporary interest will be incorporated.

Cross Listing(s): AAST 4330.**GEOG 4430 Geography of Europe****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survey of the physical, cultural, political and economic geography of Europe. Situations of contemporary interest will be included.

GEOG 4542 Intermediate GIS**4 Credit Hours. 0,2 Lecture Hours. 0,4 Lab Hours.**

An introduction to advanced data models and spatial data analysis functions of Geographic Information Systems (GIS) software, with an emphasis on the conversion among various GIS data formats and geodatabase construction and management.

Prerequisite(s): GEOG 3440.**GEOG 4790 Internship in Geography****1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The internship allows students to work in a professional setting related to their chosen concentration in the field. Undergraduate students can earn between one and six credits for internships approved by their academic advisor and the Department's Internship Director. Students must maintain contact with the Internship Director through the course of the internship work, and must submit a written report and a work product at the end of the project. Internship credits can be used for elective credit only and may not substitute for specific degree requirements.

Prerequisite(s): Permission of the Geology and Geography Internship Director is required.**GEOG 4830 Senior Thesis Research I****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students will complete a literature review and evaluation and conduct independent research as outlined in their research proposal formulated during Introduction to Research (GEOG 4120). Research is conducted under the direction of a faculty advisor and will lead to the completion of the senior thesis.

Prerequisite(s): A minimum grade of "B" in GEOG 4120 and a minimum GPA of 3.0.**GEOG 4831 Senior Thesis Research II****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The process of scientific communication will be investigated and practiced through completion of a senior thesis project. This project includes both a written thesis and research presentation. Students will format a thesis manuscript suitable for publication in a professional journal and design and deliver an oral presentation suitable for a professional conference.

Prerequisite(s): A minimum grade of "B" in GEOG 4830.**GEOG 5090 Selected Topics****1-9 Credit Hours. 0-9 Lecture Hours. 0-9 Lab Hours.**

Offered with or without a lab on an experimental basis.

Cross Listing(s): GEOG 5090G.**GEOG 5091 Applied GIS****4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

Applications of advanced GIS design and modeling to a specific topical and/or geographic area. Topics and studies will be varied over time.

Prerequisite(s): GEOG 3440 and GEOG 4542 and GEOG 5540.**Cross Listing(s):** GEOG 5091G.**GEOG 5130 Geography of North America****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Systematic regional treatment of Canada and the United States including the physical, cultural, and economic aspects of various sub regions. Special attention will be paid to comparative themes such as resource development, trade, and migration.

Cross Listing(s): GEOG 5130G.**GEOG 5230 Urban Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analysis of site, situation, base, principal functions, distribution, supporting areas and internal structure of urban settlements.

Prerequisite(s): GEOG 1101 or GEOG 1130.**Cross Listing(s):** GEOG 5230G.**GEOG 5231 Economic Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the distribution, production and utilization of the world's basic commodities.

Prerequisite(s): GEOG 1101 or GEOG 1130.**Cross Listing(s):** GEOG 5231G.**GEOG 5330 Population Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores issues and themes related to the patterns, processes, and consequences of the spatial distribution of the world's population. The course is organized around the fundamental components of population change, fertility, mortality, and migration. Current events related to population change and distribution in multiple geographical contexts will constitute a primary focus of the course.

Prerequisite(s): GEOG 1101 or GEOG 1130.**Cross Listing(s):** GEOG 5330G.**GEOG 5430 Political Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover the geography of political behavior from the local to the global scale by examining the relationship of geography and politics. Students will investigate the rapidly changing geopolitics of the era in which they live, with special emphasis on international relations, sovereignty, war, and terrorism. Additionally, the course will focus on redistricting, the Electoral College, and other geographic elements of our American democratic system.

Prerequisite(s): GEOG 1101 or GEOG 1130.**Cross Listing(s):** GEOG 5430G.**GEOG 5435 Nature and Society****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will examine factors that affect humans' perspectives on resources and analyze the availability, scarcity, and valuing of natural resources, in addition to conflicts over their use.

Cross Listing(s): GEOG 5435G.**GEOG 5441 Remote Sensing****4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

This course is designed to introduce the principles and applications of remote sensing and imagery, including electromagnetic energy, the interaction between energy and earth's surface, remotely sensed data, and the major sensor systems.

Cross Listing(s): GEOG 5441G.**GEOG 5530 Cultural Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the world's diverse cultural landscapes. Emphasis on the connections between social, political, religious and agricultural patterns and the impact of societies on the natural environment.

Prerequisite(s): GEOG 1130 or GEOG 1101.**Cross Listing(s):** GEOG 5530G.

GEOG 5531 Environmental Impact and Remediation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce students to the National Environmental Policy Act (NEPA), its Environmental Impact Assessment (EIA) process per the Council on Environmental Quality (CEQ), and review criteria regarding whether a Finding Of No Significant Impact (FONSI) or requirement for an Environmental Impact Statement (EIS) is issued. Students will see how the EIA process can be applied to the workflow of federal projects, from the research phase through planning, remediation, monitoring, evaluation, and improved regulatory enforcement/environmental policy.

Prerequisite(s): GEOG 1111.**Cross Listing(s):** GEOG 5531G.**GEOG 5532 Tourism Geographies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A critical/cultural analysis of the influence of tourism on communities and landscapes, focusing on its economics, social, and environmental impacts through case studies.

Prerequisite(s): GEOG 1101 or GEOG 1130 or permission of instructor.**Cross Listing(s):** GEOG 5532G.**GEOG 5535 Biogeography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to biogeography: the study of the distribution of plants and animals. Both historical taxonomic and ecosystems biogeography are covered. The analysis and explanation of spatial patterns of plant and animal distribution, while addressing change in species distribution and evolution in response to climate change and the process of continental drift that have taken place in the past and are taking place today, will be emphasized.

Prerequisite(s): GEOG 1111 or BIOL 1230 or BIOL 1331 or BIOL 1335 or GEOL 1430.**GEOG 5540 Advanced GIS****4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

This course covers the advanced spatial analysis and modeling functions of GIS and offers both fundamental theoretical background and extensive hands-on experience in spatial analysis and modeling. Major topics include network analysis, surface modeling, spatial patterns analysis, spatial data visualization, and basics of spatial statistics.

Prerequisite(s): GEOG 3440 and GEOG 4542.**Cross Listing(s):** GEOG 5540G.**GEOG 5545 Ecohydrology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course will cover how water interacts to connect the biotic and abiotic components of ecosystems, with a focus on forests. Students will measure hydrologic processes to determine the water budget of an on-campus forest and associate these measurements to ecological processes upon which human society relies (watershed management and sustainable agriculture). This includes training on common and cutting-edge ecohydrological field equipment installation, operation, maintenance, and data analysis techniques. Additionally, students will compare their results to studies around the globe.

Prerequisite(s): GEOG 1111.**Cross Listing(s):** GEOG 5545G.**GEOG 5590 Field Studies in Geography****3-8 Credit Hours. 3-8 Lecture Hours. 0 Lab Hours.**

An intensive course on a specific region of the world conducted in that region combining lecture, observation and travel. Students usually will bear tuition, travel and living expenses during the course. May be repeated for credit in different regions.

Cross Listing(s): GEOG 5590G.**GEOG 5890 Directed Study****1-4 Credit Hours. 1-4 Lecture Hours. 0 Lab Hours.**

Independent study for advanced students.

Prerequisite(s): Approval of Department Chair is required.**Cross Listing(s):** GEOG 5890G.**GEOG 5090G Selected Topics****1-9 Credit Hours. 0-9 Lecture Hours. 0-9 Lab Hours.**

Offered with or without a lab on an experimental basis. Graduate students will complete an individual term project or special report.

Cross Listing(s): GEOG 5090.**GEOG 5091G Applied GIS****4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

Applications of advanced GIS design and modeling to a specific topical and/or geographic area. Topics and studies will be varied over time. Graduate students can expect more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects). Graduate students will have more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects).

Cross Listing(s): GEOG 5091.**GEOG 5130G Geography of North America****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Systematic regional treatment of Canada and the United States including the physical, cultural, and economic aspects of various subregions.

Special attention will be paid to comparative themes such as resource development, trade, and migration. Graduate students will complete an individual term project or special report.

Cross Listing(s): GEOG 5130.**GEOG 5230G Urban Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analysis of site, situation, base, principal functions, distribution, supporting areas and internal structure of urban settlements. Graduate students will complete an individual term project or special report.

Prerequisite(s): GEOG 1101 or GEOG 1130.**Cross Listing(s):** GEOG 5230.**GEOG 5231G Economic Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the distribution, production and utilization of the world's basic commodities. Graduate students can expect more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects).

Cross Listing(s): GEOG 5231.**GEOG 5330G Population Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores issues and themes related to the patterns, processes, and consequences of the spatial distribution of the world's population. The course is organized around the fundamental components of population change, fertility, mortality, and migration. Current events related to population change and distribution in multiple geographical contexts will constitute a primary focus of the course. Graduate students will be required to complete more detailed, sophisticated assignments and complete longer, more in depth term papers.

Prerequisite(s): GEOG 1101 or GEOG 1130.**Cross Listing(s):** GEOG 5330.**GEOG 5430G Political Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover the geography of political behavior from the local to the global scale by examining the relationship of geography and politics. Students will investigate the rapidly changing geopolitics of the era in which they live, with special emphasis on international relations, sovereignty, war, and terrorism. Additionally, the course will focus on redistricting, the Electoral College, and other geographic elements of our American democratic system. Graduate students will learn how to undertake an independent, supervised research project in the field of political geography.

Prerequisite(s): GEOG 1101 or GEOG 1130.**Cross Listing(s):** GEOG 5430.

GEOG 5435G Nature and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will examine factors that affect humans' perspectives on resources and analyze the availability, scarcity, and valuing of natural resources, in addition to conflicts over their use. Graduate students can expect more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects).

Cross Listing(s): GEOG 5435.**GEOG 5441G Remote Sensing****4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

This course is designed to introduce the principles and applications of remote sensing and imagery, including electromagnetic energy, the interaction between energy and earth's surface, remotely sensed data, and the major sensor systems. Graduate students can expect more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects).

Cross Listing(s): GEOG 5441.**GEOG 5530G Cultural Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the world's diverse cultural landscapes. Emphasis on the connections between social, political, religious and agricultural patterns and the impact of societies on the natural environment. Graduate students can expect more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects).

Cross Listing(s): GEOG 5530.**GEOG 5531G Environmental Impact and Remediation****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce students to the National Environmental Policy Act (NEPA), its Environmental Impact Assessment (EIA) process per the Council on Environmental Quality (CEQ), and review criteria regarding whether a Finding Of No Significant Impact (FONSI) or requirement for an Environmental Impact Statement (EIS) is issued. Students will see how the EIA process can be applied to the workflow of federal projects, from the research phase through planning, remediation, monitoring, evaluation, and improved regulatory enforcement/environmental policy. Graduate students can expect more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects).

Cross Listing(s): GEOG 5531.**GEOG 5532G Tourism Geographies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A critical/cultural analysis of the influence of tourism on communities and landscapes, focusing on its economic, social, and environmental impacts through case studies. Graduate students will have more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects) reflecting a deeper interaction and understanding of the content.

Cross Listing(s): GEOG 5532.**GEOG 5535G Biogeography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to biogeography: the study of the distribution of plants and animals. Both historical taxonomic and ecosystems biogeography are covered. The analysis and explanation of spatial patterns of plant and animal distribution, while addressing change in species distribution and evolution in response to climate change and the process of continental drift that have taken place in the past and are taking place today, will be emphasized. Graduate students can expect more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects).

Cross Listing(s): GEOG 5535.**GEOG 5540G Advanced GIS****4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

This course covers the advanced spatial analysis and modeling functions of GIS and offers both fundamental theoretical background and extensive hands-on experience in spatial analysis and modeling. Major topics include network analysis, surface modeling, spatial patterns analysis, spatial data visualization, and basics of spatial statistics. Graduate students can expect more comprehensive and rigorous course assessments (e.g. class discussion, exams, and/or term papers/projects).

Cross Listing(s): GEOG 5540.**GEOG 5545G Ecohydrology****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course will cover how water interacts to connect the biotic and abiotic components of ecosystems, with a focus on forests. Students will measure hydrologic processes to determine the water budget of an on-campus forest and associate these measurements to ecological processes upon which human society relies (watershed management and sustainable agriculture). This includes training on common and cutting-edge ecohydrological field equipment installation, operation, maintenance, and data analysis techniques. Additionally, students will compare their results to studies around the globe. Graduate students will write an ecohydrology research proposal in a format required by federal funding agencies.

Cross Listing(s): GEOG 5545.**GEOG 5550G Topics in Regional Geography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the physical, cultural, historical, and economic geography of world region. May be repeated as topics vary.

GEOG 5590G Field Studies-Geography**6-8 Credit Hours. 6-8 Lecture Hours. 0 Lab Hours.**

An intensive course on a specific region of the world conducted in that region combining lecture, observation and travel. Students usually will bear tuition, travel and living expenses during the course. May be repeated for credit in different regions. Graduate students will complete an individual term project or special report.

Cross Listing(s): GEOG 5590.**GEOG 5890G Directed Study****4 Credit Hours. 1-4 Lecture Hours. 1-4 Lab Hours.**

Independent study for advanced students. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Approval of Department Chair is required.**Cross Listing(s):** GEOG 5890.**GEOG 7531 Global Climate Change****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course investigates the global climate system in the context of current and future changes in this system. In particular the course provides an in depth study of hemispheric and smaller scale changes in the climate system with emphasis on temperature, precipitation, and severe weather.

GEOG 7535 Cultural and Political Ecology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the subfields of cultural and political ecology through an extensive review and critique of the research literature in areas including: the appropriation of nature, conservation, ecotourism, sustainability, deforestation, and environmental policies. Examples from multiple geographic contexts will be discussed and critiqued.

GEOG 7541 GIS Applications in Social Science**4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

This course is designed to introduce the concepts, theories, computational methods, and real-world applications of GIS in the social sciences-related fields at the graduate level.

Prerequisite(s): A minimum grade of "C" in GEOG 7631.

GEOG 7542 Geospatial Techniques and Applications**4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

Geospatial Techniques and Applications aims to broaden students' advanced knowledge and skills in the use and applications of state-of-the-art geospatial technologies to a range of environmental issues and problems. The course will provide in-depth theoretical background on issues surrounding data acquisition, image processing, and analysis to prepare students for semester-long research projects.

Prerequisite(s): A minimum grade of "C" in GEOG 5441G.**GEOG 7543 Frontiers in Geospatial Science****4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

This class introduces students to recent developments in geospatial science and technologies. Students will become familiar with the most recent technological advances in Geographic Information Science.

GEOG 7630 Seminar in Geographic Thought**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This graduate seminar provides a comprehensive introduction to the discipline of Geography through an examination of the historical roots of the field, its fundamental theoretical traditions and concepts, and contemporary debates within the discipline.

GEOG 7631 Spatial Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to introduce the theory and applications of spatial statistical techniques in both geographic and environmental sciences.

GEOG 7632 Seminar in Geographic Research and Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analysis of research topics and methodologies in geography. Students will define a research topic, review literature in their field of interest, and work toward preparation of their capstone project or thesis research proposal.

GEOG 7830 Non-Thesis Capstone**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is reserved for students pursuing the MS in Applied Geography non-thesis option. Students will define, devise, and implement a Master's Capstone project, which includes writing, presenting, and defending of the project. Students will present their capstone project in a public presentation open to the university community in partial fulfillment of the Master of Science degree in Applied Geography.

GEOG 7999 Thesis**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is the culmination of the Master's Thesis as it entails the final stage of the writing, presenting, and defending of the thesis project. Students will present their thesis to their thesis committee in a public presentation open to the university community in partial fulfillment of the Master of Science degree in Applied Geography. The final written thesis must be accepted by the thesis committee in accordance with the timeline laid out by the College of Graduate Studies.

GEOL Geology

GEOL 1121 Introduction to the Earth**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

An introductory study of the origin and structure of earth materials and the processes which modify Earth's interior and exterior. The laboratory component of this course offers hands-on exercises related to Earth materials, interpretation of topographic and geologic maps, principles of geologic time, and plate tectonic processes.

GEOL 1121K Introduction Geosciences I With Lab**4 Credit Hours. 3 Lecture Hours. 2 Lab Hours.****GEOL 1122 General Historical Geology****4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

Discusses the origin and geological history of Earth. Methods of interpretation, fossils, geologic time measurements, time scales, physical and organic development of Earth are taught.

Prerequisite(s): GEOL 1121.**GEOL 1340 Environmental Geology****4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

An introduction to using geologic principles and knowledge to address problems arising from the interaction between humans and the geologic environment. One major component of the course examines geologic hazards, including flooding, earthquakes, volcanic eruptions, and coastal erosion. The other component explores important geologic resources, including water, soils, mineral, and energy, and the way modern society depends on these resources. The laboratory portion of the course consists of hands-on data collection, analysis, and problem solving of geologic and environmental problems related to natural hazards and society's use of Earth resources.

GEOL 1430 Dinosaurs, Extinctions and Disasters**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A review of the dynamic processes of extinction, evolution, and change in ancient animal assemblages. Particular attention will be paid to the unique terrestrial communities that were dominated by dinosaurs, mammoths, and other megafauna. We will focus on the effects of meteorite collisions, ice ages, and mass extinction events.

GEOL 1530 Principles of Oceanography**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a survey course dealing with the physical, geological, and ecological features of ocean basins and coastlines, as well as chemical composition of ocean water and oceanic circulation processes.

GEOL 3220 Data Management for Geologists**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course introduces students to quantitative geological data. Students will be expected to produce professional-looking tables and graphs, and learn how to properly present geological information clearly in written and oral form.

Prerequisite(s): A minimum grade of "C" in GEOL 1121.**GEOL 3520 Field Methods****2 Credit Hours. 0,1 Lecture Hours. 0,2 Lab Hours.**

Instruction in the tools and techniques used in the collection and analysis of field data, as well as the compilation of geologic maps and cross sections. Students will construct topographic and geologic maps and write geologic reports. The course will consist of three main areas: data sources, data collection, and data analysis. Field trips are required.

Prerequisite(s): GEOL 1122 and MATH 1112 or MATH 1113.**GEOL 3541 Mineralogy****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

An introduction to morphological crystallography, physical properties and the optical characteristics of the common minerals. Examines the genesis, occurrence, and uses of minerals. Laboratory work consists of study of common crystal forms, hand specimen identification and optical study via the petrographic microscope.

Prerequisite(s): CHEM 1211K and a minimum grade of "C" in GEOL 1121 and GEOL 1122.**GEOL 3542 Petrology and Petrography****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

An introduction to the origin, occurrence, and classification of common igneous and metamorphic rocks. Laboratory work consists of combined microscopic and megascopic study of rocks. A three day field trip across the southern Appalachians provides a field study component.

Prerequisite(s): GEOL 3541 and GEOL 1122.

GEOL 3741 Remote Sensing**4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

Introduction to the concepts, theory, collection, analysis and applications of remotely sensed spatial information.

Prerequisite(s): Permission of instructor required.

GEOL 3790 Teaching Internship in Geology**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Student interns in Introduction to the Earth (GEOL 1121), General Historical Geology (GEOL 1122), or Environmental Geology (GEOL 1340) will participate in teaching the course under the mentorship of a faculty member. Student interns will attend an introductory workshop immediately prior to the start of the semester, will intern in one of the above courses, and meet with the faculty mentor one hour each week. One credit hour is awarded per laboratory section in which the student interns.

Prerequisite(s): A minimum grade of "B" in GEOL 1121 or GEOL 1122 or GEOL 1340.

GEOL 4120 Introduction to Research**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The process of research will be studied from the scientific method through the process of writing a scientific proposal. Construction of a technical paper and the technical oral presentation will be examined and practiced. Usages of geologic terms will be explained and learned. A proposal for a research paper will be selected or assigned, a proposal written and an oral presentation of the proposal research will be made. A minimum grade of "B" is required to continue in the research sequence.

Prerequisite(s): Permission of instructor required.

GEOL 4530 Tectonics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Processes, structures, and land forms associated with the deformation of the earth's crust are studied including the changes that take place on structures and landforms over time. Scales ranging from local, to regional, to global are incorporated.

Prerequisite(s): GEOL 1121 or GEOL 1011K.

GEOL 4610 Senior Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

The process of scientific communication will be investigated and practiced. A final paper on the student's senior research topic will be written and an oral presentation made in a formal "Technical Session" format. The student will learn to prepare visual aids to illustrate his/her paper and talk. The "Technical Session" will be organized and run by students.

Prerequisite(s): GEOL 4830.

GEOL 4790 Internship in Geology**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The internship allows students to work in a professional setting related to their chosen concentration in the field. Undergraduate students can earn between one and six credits for internships approved by their academic advisor and the Department's Internship Director. Students must maintain contact with the Internship Director through the course of the internship work, and must submit a written report and a work product at the end of the project. Internship credits can be used for elective credit only and may not substitute for specific degree requirements.

Prerequisite(s): Permission of Geology and Geography Internship Director is required.

GEOL 4830 Senior Thesis Research I**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students will complete a literature review and evaluation and conduct independent research as outlined in their research proposal formulated during Introduction to Research (GEOL 4120). Research is conducted under the direction of a faculty advisor and will lead to the completion of the senior thesis.

Prerequisite(s): A minimum grade of "B" in GEOL 4120 and minimum GPA of 3.0.

GEOL 4831 Senior Thesis Research II**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The process of scientific communication will be investigated and practiced through completion of a senior thesis project. This project includes both a written thesis and research presentation. Students will format a thesis manuscript suitable for publication in a professional journal, and design and deliver an oral presentation suitable for a professional conference.

Prerequisite(s): A minimum grade of "B" in GEOL 4830.

GEOL 5090 Selected Topics**1-9 Credit Hours. 0-9 Lecture Hours. 0-9 Lab Hours.**

This course provides a means by which new courses can be offered for experimental purposes.

Prerequisite(s): Permission of instructor required.

Cross Listing(s): GEOL 5090G.

GEOL 5130 Geochemistry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers the theory and applications of stable and radiogenic isotope geochemistry as applied to low-temperature geological processes.

Prerequisite(s): CHEM 1212K and a minimum grade of "C" in GEOL 1121 and GEOL 1122.

Cross Listing(s): GEOL 5130G.

GEOL 5131 Economic Mineralogy**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

An introduction to the origins of industrial and metallic mineral resources, and the exploration, discovery and use of such resources. Laboratory work includes identification and evaluation of mineral resources and visits to mines.

Prerequisite(s): GEOL 3541.

Cross Listing(s): GEOL 5131G.

GEOL 5132 Regional Field Geology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A field expedition involving geological investigation of a major geologic region of North America. Students will be expected to make geological observations through such techniques as mapping, measuring sections, collecting scientific samples, or other standard techniques, then to analyze and interpret their observations or measurements. A scientific journal or notebook will be used by each student to record data and observations. A final report will be required. Students usually will bear tuition, travel, and living expenses in the field.

Prerequisite(s): GEOL 1121.

Cross Listing(s): GEOL 5132G.

GEOL 5140 Vertebrate Paleontology**4 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

A study of the morphology, classification and geologic significance of vertebrate fossils. Prior completion of GEOL 5142 strongly recommended.

Prerequisite(s): GEOL 1122 or permission of instructor.

Cross Listing(s): GEOL 5140G.

GEOL 5141 Paleontology**4 Credit Hours. 0,4 Lecture Hours. 3 Lab Hours.**

This course provides an overview of the major principles, applications, and methods of paleontology. Topics covered in the course include, but are not limited to: the formation of fossils, fossil identification and classification, evolution and extinction, biostratigraphy, biogeography, paleoecology, and functional morphology. Labs utilize a diverse collection of invertebrate fossils and paleontology software.

Prerequisite(s): GEOL 1122.

Cross Listing(s): GEOL 5141G.

GEOL 5142 Stratigraphy and Sedimentation
4 Credit Hours. 3 Lecture Hours. 2 Lab Hours.

Introduction to the principles and application of stratigraphy and biostratigraphy, and principles of sedimentation. Emphasis is placed on concepts of time, time-rock, rock units, sedimentary facies, guide fossils and fossil range and description of rocks in time and space, their correlation and interpretation. Petrologic interpretation and basic laboratory techniques are also demonstrated. The origin and distribution of sedimentary rocks is examined from initial weathering through erosion and transportation, to environments and mechanisms of deposition.

Prerequisite(s): GEOL 3541.

Cross Listing(s): GEOL 5142G.

GEOL 5230 Earth Science
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the Earth system and the interaction of the 4 basic subsystems responsible for the dynamic planet and unique environments seen today: the lithosphere, atmosphere, biosphere, and hydrosphere. This course is designed to enhance the knowledge of Earth processes for future STEM educators majoring in middle and secondary education. This course can not be used for upper-level course credit in the Geology BA, Geology BS, or Geology minor programs.

Cross Listing(s): GEOL 5230G.

GEOL 5231 General Oceanography
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is an integrated approach to the study of oceans with special emphasis on geology, chemistry, and biology of ocean basins. Studies will include the ecological, physical, and geological features of ocean basins, as well as chemical composition of ocean water and oceanic circulation processes. This course cannot be used for upper-level course credit in the Geology BA, Geology BS, or Geology Minor programs.

Cross Listing(s): GEOL 5231G.

GEOL 5340 Barrier Island Environmental Geology
4 Credit Hours. 2 Lecture Hours. 6 Lab Hours.

This course is an on site, direct observation study of the physical processes that create barrier islands and drive their geologic and environmental evolution. The course will cover principles of coastal geology and barrier island hydrogeology. Students will observe and document the diverse environments of a Georgia barrier island and the effects of coastal erosion and sea level rise on island environments and wildlife habitat. Students will also explore the anthropogenic impacts to these environments and resources, practice field science observation and documentation skills, and develop research and presentation skills through team research projects during an eight to ten day residence on St. Catherines Island.

Prerequisite(s): Permission of Instructor.

Cross Listing(s): GEOL 5340G.

GEOL 5431 Coastal Geology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Coastal Geology will comprise an introduction to a variety of coastal environments and landforms as well as the physical and geological processes that shape them. Coastal hazards and issues related to the ecology and management of the coast will also be discussed. The course will include two required weekend fieldtrips to coastal areas in the southeastern United States. Prior completion of GEOL 5142 strongly recommended.

Prerequisite(s): GEOL 1122 or permission of instructor.

Cross Listing(s): GEOL 5431G.

GEOL 5440 Structural Geology
4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

GA study of geologic structures resulting from rock formation and deformation. Attention will be given to recognition and solution of structural problems.

Prerequisite(s): GEOL 3542 and MATH 1112 or MATH 1113.

Cross Listing(s): GEOL 5440G.

GEOL 5530 Geomorphology
3 Credit Hours. 0,2 Lecture Hours. 0,3 Lab Hours.

A systematic study of landforms and the processes which create and modify them.

Prerequisite(s): GEOL 1122 or GEOG 1111.

Cross Listing(s): GEOL 5530G.

GEOL 5541 Hydrogeology
4 Credit Hours. 3 Lecture Hours. 2 Lab Hours.

A survey of hydrogeology that includes the occurrence, distribution, movement and chemistry of subsurface waters. Emphasizes subsurface hydrology (hydrogeology), but will also include related aspects of surface systems. Major topics covered will include: 1) relationships between precipitation, runoff, and infiltration; 2) porosity and permeability of various earth materials; 3) subsurface movement of water through earth materials; 4) basic chemical characteristics of natural waters; and 5) current water resource issues such as supply, quality, contamination, and remediation.

Prerequisite(s): GEOL 3542.

Cross Listing(s): GEOL 5541G.

GEOL 5542 Advanced Hydrogeology
4 Credit Hours. 3 Lecture Hours. 2 Lab Hours.

In-depth study of hydrogeologic and geochemical principles with emphasis on quantitative techniques. Various laboratory and field techniques will be covered, including the use of numerical models and aquifer testing.

Prerequisite(s): GEOL 5541.

Cross Listing(s): GEOL 5542G.

GEOL 5740 Sea Turtle Natural History
4 Credit Hours. 2 Lecture Hours. 6 Lab Hours.

A field-based course in which students work as sea turtle conservation scientists by monitoring beaches and documenting and recording nesting activity during an 8 to 10 day residence on St. Catherines Island, Georgia. Students will prepare for field work with two days of lectures on the GSU campus as well as a training session on GA DNR nest monitoring protocols, prior to field work on St. Catherines Island. Students will keep a daily field journal and prepare a paper on loggerhead sea turtles, documenting nesting behavior, nesting habitat, hatchling emergences and threats to hatchlings and adults using images acquired during their daily monitoring activity.

Prerequisite(s): Permission of instructor.

Cross Listing(s): GEOL 5740G.

GEOL 5890 Directed Study
1-4 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.

Well prepared geology majors may be permitted to carry on independent study upon the recommendation of one of the geology/geography faculty.

Prerequisite(s): Permission of instructor required.

Cross Listing(s): GEOL 5890G.

GEOL 5090G Selected Topics
1-9 Credit Hours. 0-9 Lecture Hours. 0-9 Lab Hours.

This course provides a means by which new courses can be offered for experimental purposes. Graduate students will complete an individual term project or special report.

Prerequisite(s): Permission of instructor required.

Cross Listing(s): GEOL 5090.

GEOL 5130G Geochemistry
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers the theory and applications of stable and radiogenic isotope geochemistry as applied to low-temperature geological processes. Graduate students will complete an individual term project or special report.

Cross Listing(s): GEOL 5130.

GEOL 5131G Economic Mineralogy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the origins of industrial and metallic mineral resources, and the exploration, discovery and use of such resources. Laboratory work includes identification and evaluation of mineral resources and visits to mines. Graduate students must complete a paper on an assigned topic.

Prerequisite(s): FCompletion of GEOL 3541.**Cross Listing(s):** GEOL 5131.**GEOL 5132G Regional Field Geology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A field expedition involving geological investigation of a major geologic region of North America. Students will be expected to make geological observations through such techniques as mapping, measuring sections, collecting scientific samples, or other standard techniques, then to analyze and interpret their observations or measurements. A scientific journal or notebook will be used by each student to record data and observations. A final report will be required. Students usually will bear tuition, travel, and living expenses in the field. Graduate students will complete an individual term project or special report.

Prerequisite(s): Completion of GEOL 1121.**Cross Listing(s):** GEOL 5132.**GEOL 5140G Vertebrate Paleontology****4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

A study of the morphology, classification and geologic significance of vertebrate fossils. Graduate students will complete an individual term project or special report.

Prerequisite(s): Completion of GEOL 1122 or permission of instructor; GEOL 5141 strongly recommended.**Cross Listing(s):** GEOL 5140.**GEOL 5141G Paleontology****4 Credit Hours. 0,3 Lecture Hours. 3 Lab Hours.**

This course provides an overview of the major principles, applications, and methods of paleontology. Topics covered in this course include, but are not limited to: the formation of fossils, fossil identification and classification, evolution and extinction, biostratigraphy, biogeography, paleoecology, and functional morphology. Labs utilize a diverse collection of invertebrate fossils and paleontology software. Graduate students will complete a special report, not required of undergraduates.

Prerequisite(s): Completion of GEOL 1122.**Cross Listing(s):** GEOL 5141.**GEOL 5142G Stratigraphy and Sedimentation****4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Introduction to the principles and application of stratigraphy and biostratigraphy, and principles of sedimentation. Emphasis is placed on concepts of time, time-rock, rock units, sedimentary facies, guide fossils and fossil range and description of rocks in time and space, their correlation and interpretation. Petrologic interpretation and basic laboratory techniques are also demonstrated. The origin and distribution of sedimentary rocks is examined from initial weathering through erosion and transportation, to environments and mechanisms of deposition. Graduate students will complete an individual term project or special report.

Prerequisite(s): Completion of GEOL 3541.**Cross Listing(s):** GEOL 5142.**GEOL 5230G Earth Science****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the Earth system and the interaction of the four basic subsystems responsible for the dynamic planet and unique environments seen today: the lithosphere, atmosphere, biosphere, and hydrosphere. This course is designed to enhance the knowledge of Earth processes for future STEM educators majoring in middle and secondary education. This course can not be used for upper-level course credit in the Geology BA, Geology BS, or Geology minor programs. Graduate students will complete an individual term project or special report.

Prerequisite(s): Permission of instructor required.**Cross Listing(s):** GEOL 5230.**GEOL 5231G General Oceanography****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an integrated approach to the study of oceans with special emphasis on geology, chemistry, and biology of ocean basins. Studies will include the ecological, physical, and geological features of ocean basins, as well as chemical composition of ocean water and oceanic circulation processes. This course cannot be used for upper-level course credit in the Geology BA, Geology BS, or Geology Minor programs.

Prerequisite(s): Completion of GEOL 1121 or GEOL 5230 or GEOL 5230G.**Cross Listing(s):** GEOL 5231.**GEOL 5340G Barrier Island Environmental Geology****4 Credit Hours. 2 Lecture Hours. 6 Lab Hours.**

This course is an on site, direct observation study of the physical processes that create barrier islands and drive their geologic and environmental evolution. The course will cover principles of coastal geology and barrier island hydrogeology. Students will observe and document the diverse environments of a Georgia barrier island and the effects of coastal erosion and sea level rise on island environments and wildlife habitat. Students will also explore the anthropogenic impacts to these environments and resources, practice field science observation and documentation skills, and develop research and presentation skills through team research projects during an eight to ten day residence on St. Catherines Island. Graduate students can expect more comprehensive and rigorous assessments as well as additional work based on the graduate field of study.

Prerequisite(s): Permission of instructor.**Cross Listing(s):** GEOL 5340.**GEOL 5431G Coastal Geology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Coastal Geology will comprise an introduction to a variety of coastal environments and landforms as well as the physical and geological processes that shape them. Coastal hazards and issues related to the ecology and management of the coast will also be discussed. The course will include two required weekend fieldtrips to coastal areas in the southeastern United States. Graduate students will complete an individual term project or a special report.

Prerequisite(s): Completion of GEOL 1122 or permission of instructor; GEOL 5142 strongly recommended.**Cross Listing(s):** GEOL 5431.**GEOL 5440G Structural Geology****4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

A study of geologic structures resulting from rock formation and deformation. Attention will be given to recognition and solution of structural problems. Graduate students will complete an individual term project or special report.

Prerequisite(s): Completion of GEOL 3542 and MATH 1112 or MATH 1113.**Cross Listing(s):** GEOL 5440.**GEOL 5530G Geomorphology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A systematic study of landforms and the processes which create and modify them. Graduate students will complete an individual term project or special report.

Prerequisite(s): Completion of GEOL 1122 or GEOG 1111.**Cross Listing(s):** GEOL 5530.

GEOL 5541G Hydrogeology**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

A survey of hydrogeology that includes the occurrence, distribution, movement and chemistry of subsurface waters. Emphasizes subsurface hydrology (hydrogeology), but will also include related aspects of surface systems. Major topics covered will include: 1) relationships between precipitation, runoff, and infiltration; 2) porosity and permeability of various earth materials; 3) subsurface movement of water through earth materials; 4) basic chemical characteristics of natural waters; and 5) current water resource issues such as supply, quality, contamination, and remediation. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Completion of GEOL 3542.**Cross Listing(s):** GEOL 5541.**GEOL 5542G Advanced Hydrogeology****4 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

In-depth study of hydrogeologic and geochemical principles with emphasis on quantitative techniques. Various laboratory and field techniques will be covered, including the use of numerical models and aquifer testing. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Completion of GEOL 5541.**Cross Listing(s):** GEOL 5542.**GEOL 5740G Sea Turtle Natural History****4 Credit Hours. 2 Lecture Hours. 6 Lab Hours.**

A field-based course in which students work as sea turtle conservation scientists by monitoring beaches and documenting and recording nesting activity during an 8 to 10 day residence on St. Catherines Island, Georgia. Students will prepare for field work with two days of lectures on the GSU campus as well as a training session on GA DNR nest monitoring protocols, prior to field work on St. Catherines Island. Students will keep a daily field journal and prepare a paper on loggerhead sea turtles, documenting nesting behavior, nesting habitat, hatchling emergences and threats to hatchlings and adults using images acquired during their daily monitoring activity. Graduate students can expect more comprehensive and rigorous assessments as well as additional work based on the graduate field of study. Graduate students will also complete a resource notebook or term project.

Prerequisite(s): Permission of instructor.**Cross Listing(s):** GEOL 5740.**GEOL 5890G Directed Study****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Well prepared geology majors may be permitted to carry on independent study upon the recommendation of one of the geology/geography faculty. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Permission of instructor required.**Cross Listing(s):** GEOL 5890.**GEOL 6097 Special Topics Geol Res & Envi****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Detailed presentation of a selected topic in geological sciences. May be repeated for credit for a maximum of 6 credit hours, if topic is different.

GEPH General Public Health

GEPH 6000 Biostatistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Entry, analysis, and application of public health statistics. Descriptive and inferential analysis through multivariate linear models are addressed. This course is reserved for MPH Generalist students who were admitted PRIOR to Fall 2018.

GEPH 6100 Epidemiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of distribution and determinants of health and disease in defined populations. Emphasis on the skills necessary to research, produce, utilize, and critique epidemiological literature. This course is reserved for MPH Generalist students.

GEPH 6125 Environmental Health Issues**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of the interface of environmental health issues, epidemiology, and risk assessment. This course will emphasize the nexus of population-based practice, environmental health, and the epidemiology of diseases. This course is reserved for MPH Generalist students who were admitted PRIOR to Fall 2018.

GEPH 6130 Nutrition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Basic concepts of nutrition as major components to the enhancement of health for non-nutrition majors.

GEPH 6131 Introduction to International Health**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction of the application of public health and its relationship to other health disciplines in the field of international health.

GEPH 6132 Strategies for the Prevention of Chemical Dependency**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Educational strategies and techniques related to prevention of chemical dependence.

GEPH 6134 Human Sexuality**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Fundamentals of the history of sexual beliefs, values, behavior, and health issues in the U.S.

GEPH 6135 Healthy Weight Management and Body Composition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of research and applications for methods of improving body composition with a focus on optimal health and physical performance. Students will investigate effective strategies for long-term changes in body fatness and lean body mass. This course is reserved for MPH Generalist students who were admitted PRIOR to Fall 2018.

GEPH 6150 Theory in Health Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Individual and environmental variables causing opposing viewpoints regarding health education needs and concerns. Practical application of various theories is stressed. This course is reserved for MPH Generalist students who were admitted PRIOR to Fall 2018.

GEPH 7130 Applied Research Methods for Public Health Practice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Acquisition of skills necessary to develop, conduct, and critique various research methods applied to public health practice, including quantitative, qualitative, and mixed designs.

GEPH 7133 Health/Illness Continuum**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores health and disease across the life-span in terms of person, place, time, fundamental pathophysiologic processes as they impact population-based health and disease, the epidemiologic triad, prevention, trends, and resources. Additional concepts such as global health, accidents, injuries, and sexually transmitted, hospital-acquired, and emerging infections are also explored.

GEPH 7280 Self-Directed Student Research**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students conduct studies relating to their professional interest and responsibilities under the directions of a graduate faculty advisor. This course is reserved for MPH Generalist students who were admitted PRIOR to Fall 2018.

Prerequisite(s): Permission of instructor or department.

GEPH 7500 Public Health Planning and Evaluation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Fundamentals needed to plan and evaluate public health programs including needs assessment, behavioral and educational diagnosis, administration diagnosis, objective writing and process, impact and outcome evaluation methods. This course is reserved for MPH Generalist students who were admitted PRIOR to Fall 2018.

Prerequisite(s): A minimum grade of "B" in PUBH 6533, PUBH 6534, PUBH 6535, PUBH 6541, and GEPH 7130, or equivalents.

GEPH 7600 Special Topics in Public Health**3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

A study of selected issues in health. This course is reserved for MPH Generalist students who were admitted PRIOR to Fall 2018.

Prerequisite(s): Permission of instructor.

GERO Gerontology

GERO 5500G Survey Of Gerontology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the emotional, physiological and social changes associated with the aging process and their effects on health.

GERO 5510G Healthy Aging**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Principles of holistic aging: spiritual, social, emotional, intellectual, occupational, physical, and motivational needs of the elderly.

GERO 5520G Gerontology Practicum**1-3 Credit Hours. 0-6 Lecture Hours. 0-12 Lab Hours.**

Practical experience tailored to the student's interest. Developed in collaboration with a faculty member and qualified site supervisor.

GERO 5530G Health Care Policy for Older Adults**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of healthcare policy as it pertains to older adults. The course will examine policies affecting older adults with multiple, serious chronic conditions; the economic and physical security of vulnerable and disadvantaged older adults; and policies that promote civic engagement by older adults and caregivers to improve the healthcare system and well-being of older Americans. Graduate students will have more comprehensive and rigorous course assessments (e.g. research papers/projects) reflecting a deeper interaction and understanding of the content.

Cross Listing(s): GERO 5530.

GSU GSU

GSU 1000 Academic Improvement Coaching**0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Required for students on Academic Intervention. Students will become familiar with academic policies of the university and work with a Success Coach to create and implement a semester plan for academic improvement. This course is a 0-credit hour class that is to be repeated as long as students have an institutional GPA less than 2.0.

GSU 1120 Strategies for Success**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

For students on Academic Intervention. This course emphasizes the development and application of skills needed for success in college that includes interpreting, organizing, and synthesizing academic information in texts and lectures; setting and achieving academic goals; understanding the purposes of higher education and the roles of the student; and effectively using university resources.

GSU 1212 Teaching Internship In GSU 1210**1-2 Credit Hours. 1-2 Lecture Hours. 0 Lab Hours.****GSU 1220 Uni Orient & Uni Orient II****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Combination of University Orientation I and II.

GSU 2131 Career Exploration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide the student with the opportunity for in-depth career exploration. Within a decision making model, the student will explore self and the world of work and how the two interact. From this framework, students will identify steps needed to gain professional experience and polish the skills required to be successful in their chosen career path.

GSU 2132 Professional Development Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Professional Development Seminar is a 3 credit-hour course designed for students interested in developing highly desired "essential skills". The seminar uses an Emotional Intelligence (EI) Framework to help students enhance professionalism and identify how emotions impact performance in the workplace.

Prerequisite(s): Junior standing or higher.

GSU 2222 Preparing Students for University Service**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course is open to students who have been through a selection process to obtain positions which require working effectively with peers and professional staff and are an integral part of the delivery of services by the Division of Student Affairs. The course teaches student paraprofessionals skills and knowledge to allow them to better serve other students, and introduces students to careers in higher education. The professional staff/instructor has the obligation to provide the essential theoretical and practical information necessary for students to effectively carry out their responsibilities.

Prerequisite(s): Permission of instructor.

GSU 3030 Selected Topics**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.****GSU 5090 Special Topics****1-15 Credit Hours. 1-15 Lecture Hours. 0 Lab Hours.**

Cross Listing(s): GSU 5090G.

GSU 5090G Special Topics**1-15 Credit Hours. 1-15 Lecture Hours. 0 Lab Hours.**

Cross Listing(s): GSU 5090.

HADM Health Administration

HADM 6100 U.S. Healthcare Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the systems of health care delivery and financing in the United States, including public and private payers and insurers as well as public and private providers of health services.

HADM 6150 Organization Theory / Organizational Behavior in Health Care**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the fields of organization theory and organizational behavior and their application to the management of health services organizations. Topics covered included organizational governance, design, and structure, organizational ethics, the role of managements as a professional within the health services organization, management interfaces with other health professionals, intra-organizational coordination and communication, the effective use of groups and teams, negotiation and conflict management, organizational power and politics, and initiation and management of organizational change.

HADM 6200 Quantitative Analysis Methods for Healthcare Management I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to quantitative analysis methods utilized for problem solving and decision making at the population/macro level.

HADM 6250 Healthcare Economics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the economics of health care at both the micro and macro levels utilizing a variety of conceptual and empirical models. Particular attention is given to the supply and demand of healthcare resources and the impact of those resources on a population in a market-driven, but government-regulated system. Healthcare production is studied with respect to distributional issues both in perfectly competitive and imperfect markets, and from both investor owned and not-for-profit perspectives.

HADM 6300 Healthcare Financial Management I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to financial and managerial accounting, health care finance and the current financial environment in which health care organizations function. The course considers and evaluates basic financial, accounting and reimbursement tools and how they are applied in the management decision-making process.

HADM 6350 Legal Environment of Health Care**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course addresses the major areas of law that influence the administration of health care organizations and affect health care decisions, relationships among professionals and patients, and management aspects of health care delivery.

HADM 6400 Fundamentals of Population Health Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to principles and methods of population health management focusing on managerial applications of epidemiology such as population health measurement needs assessment, and development/evaluation of health services-related interventions to improve population health status.

Prerequisite(s): HADM 6200.**HADM 6425 Health Information Systems Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the disciplinary field that deals with the storage, retrieval, sharing, and optimal use of health-related information, data, and knowledge for problem solving and decision making in a variety of organizational settings.

HADM 6450 Human Resources Management in Healthcare**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the organization, training, motivation, and direction of employees with an emphasis on maintaining productivity and morale at a high level. Topics include selection, compensation, financial incentives, work standards, and leadership.

HADM 6500 Quality Management Methods in Healthcare**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the theory, principles, and techniques of quality management within contemporary health services organizations. Quality assurance and quality/process improvement approaches to QM are considered. Qualitative and quantitative methods that support organizational QM are also discussed.

HADM 6550 Healthcare Marketing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of fundamental marketing principles and practices in various health care settings such as hospitals, physician practices and managed care organizations. The course will focus integration of marketing strategies across various functional areas of the health services organization. Content will include the tools, concepts, analytical frameworks, and skills necessary to understand and analyze an organization's competitive environment, create profitable customer relationships, use and apply marketing information to segment and target specific customers and markets, design marketing programs and make marketing decisions to create competitive advantage.

HADM 6600 MHA Professional Seminar I**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

A competency-based seminar focused on the professional development of the 1st year MHSA student. Topics will vary based on assessments of competency and/or professional development needs but may include the development/refinement of skills related to resume writing, interviewing, professional presentations, professional ethics, and academic / professional portfolio development.

HADM 7200 Quantitative Analysis Methods for Healthcare Management II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to quantitative analysis methods utilized for problem solving and decision making at the organizational/ micro level. Topics include economic analysis and decision making, operations analysis/ research methods, and time series analysis/forecasting.

Prerequisite(s): HADM 6200.**HADM 7250 Health Politics and Policy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the policymaking process that results in the formulation of health policy in the public sphere. Topics considered include principles of public policy analysis, policy evaluation methods, and political environmental assessment techniques. Various domains of current health policy interest are also discussed.

Prerequisite(s): HADM 6250.**HADM 7300 Healthcare Financial Management II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced and detailed view of how managers apply financial theory and principles, the course builds on principles learned in Health Care Financial Management I and uses a case method approach to allow students to develop competencies in financial management and analysis. Quantitative decision analysis techniques, costing methods, and financial policy analysis skills will be employed in the case method approach.

Prerequisite(s): HADM 6300.**HADM 7500 Strategic Management and Marketing Healthcare Organizations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the strategic management and marketing functions within contemporary health services organizations. It focuses on the organizational strategic planning processes, including principles and methods of strategic assessment, strategy formulation, evaluation, implementation, and control, as well as the role and function of marketing strategy as part of the strategic implementation process.

Prerequisite(s): Permission of instructor.**HADM 7550 MHA Capstone Project****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Comprehensive assessment of skill and knowledge-based program competencies based upon student completion, presentation, and defense of results from a faculty-approved and supervised applied project or research paper that is suitable for publication. Each student must also successfully complete a written and/or oral comprehensive examination to fulfill course requirements.

Prerequisite(s): Permission of instructor.**HADM 7600 Ethics and Leadership in Health Administration****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to the theory of ethics and the principal frameworks for ethical decision-making as well as professional development and effective leadership within the context of health care organizations.

HADM 7700 MHA Internship / Residency**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Completion of a structured experiential learning program under the auspices of a site-based and program-approved protocol. Students pursuing this option are required to complete their assigned duties/responsibilities in a satisfactory fashion and prepare a post-experience report for program faculty evaluation.

Prerequisite(s): Permission of instructor.**HADM 7725 MHA Practicum****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides the student an individualized, guided experience in healthcare administration with appropriate agencies and selected preceptors. This experience is designed to assist the student in synthesizing the knowledge gained in the classroom and applying this knowledge across multiple disciplines within the healthcare delivery system.

Prerequisite(s): Permission of instructor.

HIST History

HIST 1111 World History I: Development of World Civilization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the major developments in world history from the beginnings of civilization to 1450, establishing the historical context for contemporary global society.

HIST 1112 World History II: Emergence of Modern Global Community**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Addresses the historical context of contemporary global society by tracing developments from the fifteenth century to the present.

HIST 2110 U.S. A Comprehensive Survey**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys the United States from precolonial times to the present with special attention to Georgia. Satisfies the Georgia History and U.S. History requirements.

HIST 2111 History of the United States to 1877**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of U.S. History to the post-Civil War period. The course focuses on the geographical, intellectual, political, economic and cultural development of the American people, and places U.S. events in the context of world politics. (This course satisfies the State legislative requirement concerning United States history and Georgia history.)

HIST 2112 Survey of US History II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History 2112 explores the major themes and issues in American history from the end of the Civil War to the present. Emphasizes the political, social, economic, and cultural dimensions of United States history; causal relationships and patterns of change and continuity over time; and the significance of ethnicity, gender, race, and class in historical events.

HIST 2400 The American Military Experience**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys the military experience in American history, from the colonial period to the present, including the combatant and non-combatant experience in war, the impact of conflict across American history, the development of military institutions, and the function of a military establishment in a free society. Elective for non-majors. Satisfies ROTC Military History requirement.

Cross Listing(s): MSCI 2400.**HIST 2500 Explorations in History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course offers non-history majors the opportunity to explore a range of historical subjects including, but not limited to, the World Wars, the Middle East, the Holocaust, Slavery, The Vietnam War, The Middle Ages, and the American Civil War. Students will be exposed to a variety of historical interpretations and debates while developing increased historical consciousness and perspective on eras and events that have shaped the world in which they live. Whereas upper-division History courses are generally writing intensive and require the completion of a major research paper, HIST 2500 is offered in a lecture format and requires no major research project.

HIST 2630 Historical Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the methodologies and techniques of historical research and writing. This course is required for history majors.

HIST 2950 Internship**1-3 Credit Hours. 1-3 Lecture Hours. 1-3 Lab Hours.**

An individually designed course involving off-campus study and research or work in an appropriate public agency or private business. Assignments normally designed to require the full semester for completion. Joint supervision by the sponsoring organization and the academic instructor. Graded on a Satisfactory/Unsatisfactory basis. Student must have at least nine hours of history courses with a history GPA of 2.5. Application and credit arrangements must be made through the department in advance, normally by mid-semester preceding the internship.

HIST 3020 The African Diaspora**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Historical overview of the spread of African peoples around the world and examination of diasporic issues in the modern era, such as the so-called African brain drain, historic diaspora tourism and development, as well as diasporic experiences of return.

HIST 3030 Selected Topics in History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics vary with individual professor.

HIST 3050 Ethics and Values in History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected issues in ethics and values considered from a historical perspective. Topics may include ethics and values in western and/or non-western cultures, the relationship of the good of the citizen to that of the state, family relationships and values, environment and bio-ethics, world view and ethnocentrism.

HIST 3130 African American History to 1865**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

African American history from African beginnings to Reconstruction. This is a study of the thought and actions of people of African ancestry from their origins in precolonial Africa to the conclusion of the Civil War and its aftermath.

HIST 3131 African American History since 1865**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

African American history from Reconstruction to the present.

HIST 3132 Young Republic, 1788-1848**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of U.S. history from the Ratification of the Constitution through the end of the war with Mexico. This course will cover major aspects of American politics, economy, and culture as the country expanded to the Pacific.

HIST 3133 United States Constitutional History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of United States Constitutional history from its origins to the present including an exploration of the adaptation of the federal system to changing social, economic, and political demands.

HIST 3134 American Economic History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Growth and development of economic institutions and economic life in the United States from the colonial period to the present, including developments in agriculture, industry, business organization, labor, transportation, finance, consumerism, religion, and social transformation.

HIST 3135 US Foreign Relations to World War I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the history of U.S. foreign relations from independence to the aftermath of World War I.

HIST 3136 US Foreign Relations since World War I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the history of U.S. foreign relations from World War I to the Present.

HIST 3139 History of Religion in the U.S.**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey and analysis of the major religious patterns in the United States with special attention given to belief systems, institutional forms, social composition, and historical development.

Cross Listing(s): RELS 3139.**HIST 3150 The History of Vietnam, 236 B.C. to Present****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students will be introduced to the history of Vietnam from its origins in 236 B.C. through the present. Included will be the impact of a thousand years of Chinese colonial rule until 939 and then the country's independent development and expansion versus its neighbors in Southeast Asia before the arrival of the French in the early 19th century. The course will then shift to Vietnam's long struggle to regain its independence that only concluded in 1975. Students will develop advanced proficiency in history through readings and writing assignments as well as individual research projects.

HIST 3151 The American War in Vietnam**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines political, military, social, and cultural aspects of the American War in Vietnam from American and Vietnamese perspectives.

HIST 3158 War and Society: A Global Perspective**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the relationship between warfare and societies from a global perspective.

HIST 3200 Traditional China**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History of Chinese civilization from ancient times to the Qing Dynasty, with emphasis on its characteristic political, social, economic, and cultural developments.

HIST 3225 History of Ancient Near East**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of the ancient Near East from prehistory to the rise of Islam. Topics may include ancient Israel, Sumer, Egypt, Assyria, Babylonia, Persia, Greece, Rome, and Byzantium.

HIST 3230 American Military History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Studies military strategy, tactics, technology, and main features of American conflicts from colonial times to this century.

HIST 3231 Introduction to Public History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the basic historiographic and anthropological approaches used in public history and a survey of the different disciplines such as archaeology, architecture, folklife, decorative arts, museum studies, and preservation which comprise public history.

HIST 3233 The Christian Church in the Roman Empire**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

How did Christianity turn from an illegal, persecuted cult into the official religion of the Roman empire? The course will focus on the first five hundred years of the Christian church: its development, doctrine, and especially its relationship with the ancient civilizations of the Mediterranean world (Greece, Rome, and the Near East).

Cross Listing(s): RELS 3233.**HIST 3234 The History of Islam in Southeast Asia****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

After a brief review of the founding, basic beliefs and practices of Islam, the students will be introduced to the history of Islam in Southeast Asia from its arrival through the present. Included will be how Islam "fit" into the region's existing religiosity as well as its political-economic life. The arrival of Europeans by the 1500s introduced an important new factor into the region which had religious as well as political-economic dimensions, resulting in local resistance and religious as well as secular nationalism. After World War II, with the emergence of new and largely democratic states, the relationship of the state and Islam became a more complex issue and continues to play a significant role in the national lives of the region. Students will develop advanced proficiency in history through readings and writing assignments as well as individual research projects and essay examinations.

HIST 3236 History of Latinos/as in the United States**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A political, social, and cultural survey of Latinos/as in the United States from the eighteenth century to the present day.

HIST 3250 The Muslim World to 1400**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the rise of Islam in the seventh century and of the various Muslim societies that arose prior to the fifteenth century from the Iberian Peninsula to South Asia.

Cross Listing(s): INTS 3250 and RELS 3250.**HIST 3251 The Muslim World since 1250****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the global reach of Islam since the thirteenth century. The focus is on how Muslim societies have dealt with the precipitous decline in their well-being since their pinnacle of influence in the seventeenth century.

Cross Listing(s): INTS 3251 and RELS 3251.**HIST 3320 History of Russian and Soviet Foreign Policy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of topics of Russian and Soviet foreign policy from the end of the tsarist period to the present. Analysis of the effect on the international system of the collapse of the Soviet Union and the place of Russia in the world today.

HIST 3330 History of Greece**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of ancient Greek history from the Minoan and Mycenaean civilizations to Alexander the Great.

HIST 3331 History of Rome**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of Roman history and society from the beginnings to the emperor Constantine.

HIST 3332 Late Antiquity**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the Mediterranean world from the later Roman Empire to the new civilizations of Europe, Byzantium, and Islam.

HIST 3333 The Middle Ages**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the development of European civilization and relations between Christendom and Islam from the decline of the Roman Empire to the Renaissance.

HIST 3334 Christian Europe 450-1750**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The major theme of this course is the development of various Christian traditions in Europe from the early middle ages to the Enlightenment. Topics include the spread of Christianity, formation of distinct Christian churches, and the many wars fought in the name of Christianity.

Cross Listing(s): RELS 3334.**HIST 3338 Contemporary Europe****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the European experience since the end of World War II. Emphasizes the political, economic social, cultural, and intellectual change and continuity in the years 1945 to the present.

Cross Listing(s): INTS 3338.**HIST 3350 Maritime History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the relationship between humankind and the sea. Students will explore how maritime activities on both inland waterways and oceans, influenced ship design, exploration, navigation, trade, and cultural and biological diffusion. Chronology and geographic focus are dependent on the instructor's expertise.

HIST 3352 Israel/Palestine in its Middle Eastern Context**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survey of key events, cultural developments, and political affairs in the area of Israel/Palestine in relation to broader issues impacting the region.

HIST 3354 Maritime Archaeology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This class examines the methods, theories, and practices used to study archaeological evidence related to maritime sites including shipwrecks, wharf structures, and other elements of the maritime cultural landscape. Although the course focuses on introducing the student to maritime archaeological data collection methods it does so in a way that is useful to historians.

HIST 3431 Modern Britain: 1485 to the Present**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This comprehensive survey of the political, economic and cultural history of the British Isles and British Empire covers the period from the end of the Wars of the Roses in 1485 to the present era of devolved sovereignty in Scotland and Wales and the partial independence of Ireland.

HIST 3432 Modern Germany**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of modern German history, outlining the origins of Prussia, Bismarck's statecraft, the rise and fall of Hitler's Third Reich, and post-World War II Germany.

HIST 3434 Modern European Thought**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of significant figures and developments in modern European intellectual history from the eighteenth century Enlightenment to Post-Structuralism.

HIST 3435 The Scientific Revolution**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of scientific change from Copernicus to Newton.

HIST 3436 The Holocaust**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will examine the origins, implementation, and legacy of the Holocaust: the attempt of the Nazis to eliminate Europe's Jews and other ethnic groups labeled as undesirables by the National Socialist Movement in Germany.

HIST 3480 Europe in the 19th Century**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The social, political, and intellectual directions of European history from the Congress of Vienna to the end of the 19th century.

Prerequisite(s): A minimum grade of "C" in HIST 1111 or HIST 1112.**HIST 3490 Europe in the 20th Century****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Major developments in Europe since 1900.

Prerequisite(s): A minimum grade of "C" in HIST 1111 or HIST 1112.**HIST 3530 History of Africa to 1800****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Traces the development of significant social, economic and political institutions within precolonial Africa.

HIST 3531 History of Africa since 1800**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Traces significant developments in precolonial, colonial and post-colonial African history. These include trade and the origins of the colonial state as well as African encounters with colonialism.

HIST 3532 The Modern Middle East**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the major developments in the Middle East since World War I.

Cross Listing(s): INTS 3532.**HIST 3533 Modern East Central Europe****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of East Central Europe which will stress the political, social, economic, military and cultural development of the 19th and 20th century Poland, Hungary, and Czech Republic as well as the Balkan nations.

Cross Listing(s): INTS 3533.**HIST 3534 Modern Southeast Asia****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Common themes of the region from 1600, including the impact of the West, the nationalist response, and the post-WW II rise of a modern community of nations.

Cross Listing(s): INTS 3534.**HIST 3536 Modern Russia****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Russian history from Peter the Great (1696) to the present, covering the major political, economic, and social developments of Russia in the imperial and soviet periods as well as the collapse of the Soviet Union and its aftermath.

HIST 3537 Colonial Latin America**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of Latin America from the pre-Columbian era to its struggles for independence in the 1800s. The class examines indigenous cultures before European conquest, the effects of colonization, and the development of Spanish and Portuguese empires, with special focus on colonial institutions, cultures, and socioeconomic developments.

Cross Listing(s): INTS 3537 and LAST 3537.**HIST 3538 Latin America since Independence****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of Latin America from independence in the 1800s to the present. The class examines the challenges of nation building; twentieth-century political, socioeconomic, and cultural developments; and key contemporary phenomena.

Cross Listing(s): INTS 3538, LAST 3538.**HIST 3580 Environmental History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A historical study of the interactions between people and their environments. Course may focus on local environments, the Southeast, the entire United States, or survey the environmental history of the world. May be repeated once as topics vary.

HIST 3630 History Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, History majors in the Honors program will select a historical topic, begin researching it, choose a faculty mentor, and write a thesis prospectus that includes a review of the historiographical literature and an annotated bibliography.

Prerequisite(s): A minimum grade of "B" in HIST 2630.

HIST 3700 American Material Culture**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the methods of material culture analysis and key groups of American artifacts. Topics covered may include furnishings, fashion, cemeteries, industrial design, and consumerism.

HIST 3720 Historical Archaeology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of archaeological artifacts, methods, and theories, emphasizing the use of archaeological evidence consistent with the disciplinary standards of history. Chronological and regional focus varies with instructor's area of expertise.

Cross Listing(s): ANTH 3136.**HIST 3740 Women & Gender in Amer Hist****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of the history of American women and of historical ideas about gender in America from the colonial times to the present.

HIST 3760 US History 1877-1917**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Presentation of the major subjects of the late 19th century, and early 20th centuries, including the emergence of a national economy, its theory and policies; partisan and reform politics; American society and social thought; and territorial aggrandizement.

HIST 3770 US History 1917-1945**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analysis of the institutions and forces that molded life in the United States from 1917 to 1945.

HIST 3820 Intro to Archaeology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survey of archaeology using cross-cultural examples. Focus on history, basic techniques, concepts, theories, and types of research.

HIST 3920 Modern Amer Popular Culture**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines American popular culture since the late nineteenth century, considering a variety of media and forms of cultural expression, including vaudeville, cinema, television, and music (including jazz, rock 'n' roll, and hip-hop), as well as advertising and consumerism.

HIST 3990 Fieldwork in History**1-3 Credit Hours. 5 Lecture Hours. 5 Lab Hours.**

Field trip or field work based course, abroad or in the United States. Researching, reading, and written assignments will vary. Can be project-based, can require students to lift up to 50 pounds. Course may be repeated as topics vary, but no more than five hours can be counted toward the major in History.

Prerequisite(s): Permission of instructor or department.**HIST 3992 Internship****1-3 Credit Hours. 0-3 Lecture Hours. 0-9 Lab Hours.**

An individually designed course involving off-campus study and research or work in an appropriate public agency or private business. Assignments normally designed to require the full semester for completion. Joint supervision by the sponsoring organization and the academic instructor. Graded on a satisfactory/unsatisfactory (S/U) basis. Student must have at least nine hours of history courses with a history grade point average of 3.0. Only three hours of internship (either HIST 3991 or HIST 3992) may be counted for the major. Application and credit arrangements must be made through the department by mid-semester preceding the internship.

HIST 4030 Directed Study in History**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Independent study with topics varying by professor.

HIST 4110 Medieval Spain**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the political, social and economic development of the Iberian peninsula from Late Antiquity to the fall of Granada in 1492. The course pays special attention to the interaction of Muslim, Christian and Jewish communities over the course of these centuries.

HIST 4120 American Intellectual History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the major American thinkers and ideas that have influenced the nation's history from the founding era to the present, with an emphasis on political thought.

HIST 4130 Georgia History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores important political, social, cultural, and economic developments that have shaped modern Georgia. Satisfies the Georgia Constitution and Georgia History requirements.

HIST 4131 Biography and History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analysis of biography as a genre in historical writing and scholarship using life stories of representative individuals in history.

HIST 4132 Recent America: U.S. Since 1945**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys the history of the United States from World War II to the present, including social, political, and economic developments.

HIST 4133 US Foreign Relations: The Cold War**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the history of U.S. foreign relations from the aftermath of World War II to the collapses of the Soviet Union.

Cross Listing(s): INTS 4133.**HIST 4134 The Civil Rights Movement****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course explores the origins, ideologies, strategies and legacy of the modern civil rights movement in the North and the South with special focus on the impact of race, class and gender on civil rights from 1946-1968.

Cross Listing(s): AAST 4134.**HIST 4135 The United States in the 1960s****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the cultural, social and political changes in the United States during the 1960s. Topics include the Civil Rights movement, the Vietnam War, the rise of feminism, the counterculture, and the conservative backlash.

HIST 4230 The Renaissance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the artistic, cultural, intellectual, political, economic and social aspects of life in Europe (with a special focus on Italy) from the fourteenth through the seventeenth centuries, paying particular attention to the revival of antiquity and its impact on intellectual and artistic trends.

HIST 4235 Tudor and Stuart Britain**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers the Tudor and Stuart monarchies from 1485-1714, investigating how monarchs reformed religion, patronized major artists, made constitutional changes, and created an economic and political empire spanning the globe. The course concludes with the end of the Stuart Dynasty, and with it, the end of native English, Welsh, and Scottish monarchs.

HIST 4335 Women and Gender in Europe**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An Intellectual History course focusing on the debate over women's nature, women's roles, and the notion of "woman". Although the "woman question" has a history spanning the entire modern period, this course will examine the period 1848-1950 when many of the classic texts appeared.

HIST 4336 Science and Religion**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the interactions between science and religion from ancient times to the present.

Cross Listing(s): RELS 4336.

HIST 4431 Invasion of the Americas**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the encounters among diverse peoples, and the social, economic, and power relations that developed from these contacts. There are three primary aims of this course: 1. To introduce you to the concepts, assumptions, and methods of the historical discipline. 2. To bridge the histories of Europe and America 3. To examine the exploration, exploitation, and colonization of North America from the perspectives of both early modern Europeans and Native Americans. We will be employing the hybrid discipline of ethnohistory to examine the Westward enterprises of the Spanish, French, Dutch, and English, their impact upon the native cultures, as well as the impact of the native cultures upon them, and their success in transplanting European culture to the New World.

HIST 4432 Colonial America**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on early American history from the pre-contact to the period just prior to the Revolution. It examines the growing prosperity of the colonial American colonies, the increasing diversity of their populations, and the tensions and crises that resulted from both of these developments. Topics will include the rise of slavery, the birth of consumer society, and the contest among European nations and their Indian allies over the future of North America.

HIST 4530 Revelation and Revolution**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores issues of gender, spirituality, and power within the context of African history.

Cross Listing(s): AAST 4530.**HIST 4531 World War I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the origins, diplomacy, critical turning points, and conclusion of World War I with attention to its cultural and social experiences and meanings for both soldiers and civilians.

HIST 4532 Destruction of Slavery**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the end of plantation slavery in the nineteenth century Atlantic World. The geographic concentration and topics covered will vary according to the focus of the instructor.

Cross Listing(s): AAST 4532.**HIST 4533 The History of Flight****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the development of aeronautics from the earliest ideas through the space age.

HIST 4635 Senior Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A senior seminar in which students will engage in extensive research in historical sources and literature relating to a specific problem or topic. Emphasis will be on the individual preparation of research papers. Topics will vary with professor.

Prerequisite(s): A minimum grade of "C" in HIST 2630.**HIST 4790 Internship in History****1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed to give History majors applied history experiences in museums, historical societies, historical sites, or other venues approved by the History Department chair. May be taken only by History majors.

HIST 4812 Ind Study in Non-Western Hist**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Available only by special arrangement with the department, made in advance. Ask in the History Department for specific information.

HIST 4832 Ind Study in European History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Available only by special arrangement with the department, made in advance. Ask in the History Department for specific information.

HIST 4852 Ind Study in American History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Available only by special arrangement with the department, made in advance. Ask in the History Department for specific information.

HIST 4872 Ind Study in Public History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Available only by special arrangement with the department, made in advance. Ask in the History Department for specific information.

HIST 5030 Selected Topics in History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics will vary with individual professor.

Cross Listing(s): HIST 5030G.**HIST 5130 American Indian History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the history of American Indians from pre-contact to the present, supplemented by case studies from a number of regions.

Cross Listing(s): HIST 5130G.**HIST 5133 Revolutionary America****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An intensive study of themes in Revolutionary American history (from 1763 to approximately 1790), including the growing rift between Britain and its colonies, the roles of women and African-Americans, and the origins of American identity.

Cross Listing(s): HIST 5133G.**HIST 5134 Civil War and Reconstruction****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the sectional polarization of the 1850's, the impact of war on the southern and northern home fronts, and the trauma of reconstructing the Union.

Cross Listing(s): HIST 5134G.**HIST 5137 The Antebellum South****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the social, intellectual, cultural, economic, and political history of the American South to 1861.

Cross Listing(s): HIST 5137G.**HIST 5138 The New South****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The social, intellectual, cultural, economic, and political history of the post-Civil War South with an emphasis on Georgia's role.

Cross Listing(s): HIST 5138G.**HIST 5210 Advanced Topics in Public History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students will develop advanced proficiency in the professional practice of Public History through readings and experiential learning that will prepare them to present historical knowledge to a public audience.

Cross Listing(s): HIST 5210G and HUMN 4631.**HIST 5230 Advertising and Culture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys the business and practice of selling consumer goods in the United States from the nineteenth century to the present with analysis of how advertising became an economic and cultural force, and a cornerstone of the consumer culture. Topics include the development of mass marketing, product brands, persuasive advertising, mail-order catalogs, department stores, as well as the relationship of consumerism to gender, ethnicity, race, social class, religion, and youth.

Cross Listing(s): HIST 5230G.**HIST 5232 Working Class History in the United States****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the social, cultural and political history of the working class in the United States since industrialization.

Cross Listing(s): HIST 5232G.

HIST 5233 The American City**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of American urban development from the colonial period to the present with particular attention paid to migration, architecture, technology, politics, transportation, and urban culture in the late nineteenth and twentieth centuries.

Cross Listing(s): HIST 5233G, AAST 5233, AAST 5233G.**HIST 5234 Piracy in the Americas, 1500-1750****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the history of piracy in the Americas during the Golden Age of Piracy, a period that ranges from European contact to the mid-1700s. It is an age marked by exploration, colonization, overseas trade, endemic religious conflicts, expansive empires, and refractory fiefdoms. Spain and Portugal began the exploration, overseas trade and conquest of this period, but their successes quickly led their northern neighbors, particularly the French, English, and Dutch, to cast their covetous eyes upon slow-moving, inbound treasure fleets of their southern neighbors; creating an elaborate game between predators and prey. The interactions that developed between predators and prey will be the primary subject of this course.

Cross Listing(s): HIST 5234G.**HIST 5236 Age of Revolutions in Europe and the Atlantic World****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers the great age of revolutions spanning c. 1650-1848 during which numerous political, intellectual, cultural, religious, and economic changes occurred which transformed European and the Atlantic World at the inception of the modern world. This course examines such revolutionary transformations, and/or what is meant by the historical concept of revolution, itself, by focusing on specific topics and themes. Topics may include absolutism, the Enlightenment, the Atlantic Revolutions (American, French, Haitian, Latin American), the Revolutions of 1848, and/or the extension of human rights through revolutionary debates over race, slavery, and gender.

Cross Listing(s): HIST 5236G.**HIST 5240 Topics in Women and Gender in America****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in the history of women and gender in America. May be repeated once as topics vary.

HIST 5241 Topics in Latin American History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Detailed analysis of a specific problem, theme, or topic in Latin American history. May be repeated once as topics vary.

Cross Listing(s): HIST 5241G.**HIST 5242 Topics in African History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics in the history of Africa, including political, economic, social, religious, and/or cultural trends as defined by the instructor. May be repeated once as topics vary.

Cross Listing(s): HIST 5242G.**HIST 5243 Topics in Asian History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Detailed analysis of a specific problem, theme, or topic in Asian history. May be repeated once as topics vary.

Cross Listing(s): HIST 5243G.**HIST 5244 Topics in Middle Eastern and Mediterranean History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Detailed analysis of a specific problem, theme, or topic in Middle Eastern and Mediterranean history. May be repeated once as topics vary.

Cross Listing(s): HIST 5244G.**HIST 5245 Topics in Medieval History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in European history c. 325-1500. May be repeated once as topics vary.

Cross Listing(s): HIST 5245G.**HIST 5246 Topics in European History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in European history. May be repeated once as topics vary.

Cross Listing(s): HIST 5246G.**HIST 5247 Topics in European Intellectual and Cultural History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of particular topics in European intellectual and cultural history, emphasizing primary sources and varied historical interpretations. May be repeated once as topics vary.

Cross Listing(s): HIST 5247G.**HIST 5248 Topics in Law and History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Detailed study or analysis of a particular theme, topic, and/or region in legal history. May be repeated once as topics vary.

Cross Listing(s): HIST 5248G.**HIST 5249 Topics in American Thought and Culture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in the history of American thought, values, and culture. May be repeated once as topics vary.

Cross Listing(s): HIST 5249G.**HIST 5251 Museum Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an introduction to the history and development of museums and the professionalization of the field. It covers the structure and nature of curatorial, education, and administrative work in museums and theoretical and practical issues facing museums today. The course will provide an overview of current method and theory in material culture studies. Students will visit and evaluate museums and virtual exhibits and study major exhibit controversies and debates about the politics of historical memory and exhibition. Readings and discussions will provide a basis for a hands-on section of the course where student teams will create small case exhibits that transmit and display historical knowledge.

Cross Listing(s): HIST 5251G.**HIST 5252 Folklife****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of the creation and persistence of tradition in societies and of the process of change as demonstrated in such aspects as narrative, music, song, celebration, festival, belief, and material culture. Emphasis on understanding the multi-ethnic nature of the traditions in American life. May be repeated once as topics vary.

Cross Listing(s): HIST 5252G.**HIST 5253 Archival Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the archivist as a professional and to the role of archives in society. Survey of the documentary materials and of the principles and practices involved in their acquisition, cataloging, care, and retrieval in public and private facilities also included. May be repeated once as topics vary.

Prerequisite(s): HIST 2630.**Cross Listing(s):** HIST 5253G.**HIST 5254 Oral History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of how to prepare and conduct oral history interviews; how to transcribe, log, and index oral history recordings; and how to use oral history collections in writing research papers.

Prerequisite(s): HIST 2630.**Cross Listing(s):** HIST 5254G.

HIST 5255 Topics in Architectural History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in architectural history, including various styles of architecture (Georgian, federal, neoclassical, eclectic, and modern), and vernacular architecture. Recording techniques, research strategies, theoretical approaches, landscape architecture, field trips, and visiting lecturers. May be repeated once as topics vary.

Cross Listing(s): HIST 5255G.**HIST 5256 Historic Preservation****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of the field including values, principles, development of planning and organization for preservation; preservation law, economics, and politics. May be repeated once as topics vary.

Prerequisite(s): HIST 2630.**Cross Listing(s):** HIST 5256G.**HIST 5257 Heritage Tourism****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History of tourism, with emphasis on heritage and tourism, and of the function and impact of tourism on guest and host societies. Aspects of the modern tourist industry and its products, such as promotional and travel literature, accommodations and transport, and tourist arts also investigated. May be repeated once as topics vary.

Prerequisite(s): HIST 2630.**Cross Listing(s):** HIST 5257G.**HIST 5258 Topics in African American History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics in the history of African-American people emphasizing their cultural, social, economic, political, national and/or regional experiences. May be repeated once as topics vary.

Cross Listing(s): HIST 5258G.**HIST 5259 Topics in British History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in the history of Great Britain and Ireland. May be repeated once as topics vary.

Cross Listing(s): HIST 5259G.**HIST 5260 History in the Digital Age****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore the ways digital technologies can be applied to the historian's craft. Topics include working with new media, online historical research methods, publications, public outreach, and education. Students will examine both theoretical issues and basic skills.

Cross Listing(s): HIST 5260G and HUMN 4631.**HIST 5332 The Age of Reformations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the breakup of western European Christian unity in the sixteenth and seventeenth centuries, with a particular focus on the Continental (Lutheran, Calvinist, and Radical) denominations and the social, political, and economic consequences for all Europeans.

Cross Listing(s): HIST 5332G, RELS 5332, RELS 5332G.**HIST 5335 World War II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The Second World War from its origins to its consequences. The military campaigns are covered, but there is also emphasis on the personalities, the technology, the national policies, and the effect of the war on the home fronts.

Cross Listing(s): HIST 5335G.**HIST 5336 Revolutionary France****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The Revolutionary Era in France has inspired poets, politicians, social critics, and clergy all over the world, and its impact, causes, and significance have been debated for more than two centuries throughout the globe. That event was the French Revolution. This Revolution arguably set the tone for much of nineteenth- and twentieth-century European History, and inspired subsequent revolutionary events throughout much of the globe. Finally, the French Revolution was instrumental to the creation of the national consciousness of France as we know it today. This course is designed as a survey addressing major events, key players, causes, and consequences of the French Revolution. This course is additionally designed to familiarize students with the diverse ways in which historians have continued to debate and interpret the unfolding and significance of Revolutionary France.

Cross Listing(s): HIST 5336G.**HIST 5339 Britain and the World****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the diplomatic, economic, colonial, environmental or cultural relationships between the British Isles and the broader world since 1485.

Cross Listing(s): HIST 5339G.**HIST 5430 Modern France and French Society in Global Context****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course affords a topical overview of major events, themes, and issues concerning the History of Modern France and its place within major patterns of European and Global History. The cultural, political, gender, racial, and imperial dimensions of French History will be underscored. Topics include: origins and course rise and fall of the Old Regime French monarchy from Renaissance to Revolution, the French Revolution and revolutionary transformations in Modern France, France and its Empire from c. 1870 to Decolonization, French society from Napoleon to the present, or France and the French Empire in the era of the World Wars (1914-1945).

Cross Listing(s): HIST 5430G.**HIST 5530 20th Century Russia****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the history of Russia in the 20th century.

Cross Listing(s): HIST 5530G.**HIST 5531 Modern Japan****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Japan through the Tokugawa period to its nineteenth century emergence from isolation and its growth as a world power, with emphasis on traditional culture, industrialization, and post-WW II society.

Cross Listing(s): HIST 5531G, INTS 5531, INTS 5531G.**HIST 5532 Modern China****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History of China from the Qing dynasty to the early years of People's Republic, with emphasis on political, social, economic, and intellectual developments.

Cross Listing(s): HIST 5532G, INTS 5532, INTS 5532G.**HIST 5533 Economic Rivals: US-UK-Japan****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Contrasts the historical development of business and industrialization in the U.S., Great Britain, and Japan from preindustrial times to the present, emphasizing how culture, religion, economics, and politics have shaped business growth, practice, and international trade, creating rival capitalists.

Cross Listing(s): HIST 5533G.**HIST 5534 Contemporary China****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History of People's Republic of China from 1949 to the present, with emphasis on political, social, economic, and cultural transformations.

Cross Listing(s): HIST 5534G.

HIST 5030G Selected Topics in History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics will vary with individual professor. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5030.**HIST 5130G American Indian History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the history of American Indians from pre-contact to the present, supplemented by case studies from a number of regions. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5130.**HIST 5133G Revolutionary America****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An intensive study of themes in Revolutionary American history (from 1763 to approximately 1790), including the growing rift between Britain and its colonies, the roles of women and African-Americans, and the origins of American identity. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5133.**HIST 5134G Civil War and Reconstruction****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the sectional polarization of the 1850's, the impact of war on the southern and northern home fronts, and the trauma of reconstructing the Union. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5134.**HIST 5137G The Antebellum South****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the social, intellectual, cultural, economic, and political history of the American South to 1861. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5137.**HIST 5138G The New South****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The social, intellectual, cultural, economic, and political history of the post-Civil War South with an emphasis on Georgia's role. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5138.**HIST 5210G Advanced Topics in Public History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students will develop advanced proficiency in the professional practice of Public History through readings and experiential learning that will prepare them to present historical knowledge to a public audience. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor. Topics vary. May be repeated for credit.

Cross Listing(s): HIST 5210.**HIST 5230G Advertising and Culture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys the business and practice of selling consumer goods in the United States from the nineteenth century to the present with analysis of how advertising became an economic and cultural force, and a cornerstone of the consumer culture. Topics include the development of mass marketing, product brands, persuasive advertising, mail-order catalogs, department stores, as well as the relationship of consumerism to gender, ethnicity, race, social class, religion, and youth. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5230.**HIST 5232G Working Class History in the United States****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the social, cultural and political history of the working class in the United States since industrialization. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5232.**HIST 5233G The American City****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of American urban development from the colonial period to the present with particular attention paid to migration, architecture, technology, politics, transportation, and urban culture in the late nineteenth and twentieth centuries. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5233, AAST 5233, AAST 5233G.**HIST 5234G Piracy in the Americas, 1500-1750****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the history of piracy in the Americas during the Golden Age of Piracy, a period that ranges from European contact to the mid-1700s. It is an age marked by exploration, colonization, overseas trade, endemic religious conflicts, expansive empires, and refractory fiefdoms. Spain and Portugal began the exploration, overseas trade and conquest of this period, but their successes quickly led their northern neighbors, particularly the French, English, and Dutch, to cast their covetous eyes upon slow-moving, inbound treasure fleets of their southern neighbors; creating an elaborate game between predators and prey. The interactions that developed between predators and prey will be the primary subject of this course. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5234.

HIST 5236G Age of Revolutions in Europe and the Atlantic World
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers the great age of revolutions spanning c. 1650-1848 during which numerous political, intellectual, cultural, religious, and economic changes occurred which transformed European and the Atlantic World at the inception of the modern world. This course examines such revolutionary transformations, and/or what is meant by the historical concept of revolution, itself, by focusing on specific topics and themes. Topics may include absolutism, the Enlightenment, the Atlantic Revolutions (American, French, Haitian, Latin American), the Revolutions of 1848, and/or the extension of human rights through revolutionary debates over race, slavery, and gender. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5236.

HIST 5240G Topics in Women and Gender in America
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Selected topics in the history of women and gender in America. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5240.

HIST 5241G Topics in Latin American History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Detailed analysis of a specific problem, theme, or topic in Latin American history. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5241.

HIST 5242G Topics in African History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics in the history of Africa, including political, economic, social, religious, and/or cultural trends as defined by the instructor. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5242.

HIST 5243G Topics in Asian History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Detailed analysis of a specific problem, theme, or topic in Asian history. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5243.

HIST 5244G Topics in Middle Eastern and Mediterranean History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Detailed analysis of a specific problem, theme, or topic in Middle Eastern and Mediterranean history. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5244.

HIST 5245G Topics in Medieval History

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Selected topics in European history c. 325-1500. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5245.

HIST 5246G Topics in European History

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Selected topics in European history. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5246.

HIST 5247G Topics in European Intellectual and Cultural History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Study of particular topics in European intellectual and cultural history, emphasizing primary sources and varied historical interpretations. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5247.

HIST 5248G Topics in Law and History

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Detailed study or analysis of a particular theme, topic, and/or region in legal history. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5248.

HIST 5249G Topics in American Thought and Culture
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Selected topics in the history of American thought, values, and culture. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5249.

HIST 5251G Museum Studies

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an introduction to the history and development of museums and the professionalization of the field. It covers the structure and nature of curatorial, education, and administrative work in museums and theoretical and practical issues facing museums today. The course will provide an overview of current method and theory in material culture studies. Students will visit and evaluate museums and virtual exhibits and study major exhibit controversies and debates about the politics of historical memory and exhibition. Readings and discussions will provide a basis for a hands-on section of the course where student teams will create small case exhibits that transmit and display historical knowledge. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5251.

HIST 5252G Folklife**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of the creation and persistence of tradition in societies and of the process of change as demonstrated in such aspects as narrative, music, song, celebration, festival, belief, and material culture. Emphasis on understanding the multi-ethnic nature of the traditions in American life. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5252.**HIST 5253G Archival Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the archivist as a professional and to the role of archives in society. Survey of the documentary materials and of the principles and practices involved in their acquisition, cataloging, care, and retrieval in public and private facilities also included. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5253.**HIST 5254G Oral History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of how to prepare and conduct oral history interviews; how to transcribe, log, and index oral history recordings; and how to use oral history collections in writing research papers. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5254.**HIST 5255G Topics in Architectural History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in architectural history, including various styles of architecture (Georgian, federal, neoclassical, eclectic, and modern), and vernacular architecture. Recording techniques, research strategies, theoretical approaches, landscape architecture, field trips, and visiting lecturers. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5255.**HIST 5256G Historic Preservation****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of the field including values, principles, development of planning and organization for preservation; preservation law, economics, and politics. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5256.**HIST 5257G Heritage Tourism****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History of tourism, with emphasis on heritage and tourism, and of the function and impact of tourism on guest and host societies. Aspects of the modern tourist industry and its products, such as promotional and travel literature, accommodations and transport, and tourist arts also investigated. May be repeated once as topics vary.

Cross Listing(s): HIST 5257.**HIST 5258G Topics in African American History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics in the history of African-American people emphasizing their cultural, social, economic, political, national and/or regional experiences. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5258.**HIST 5259G Topics in British History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in the history of Great Britain and Ireland. May be repeated once as topics vary. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5259.**HIST 5260G History in the Digital Age****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore the ways digital technologies can be applied to the historian's craft. Topics include working with new media, online historical research methods, publications, public outreach, and education. Students will examine both theoretical issues and basic skills. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5260.**HIST 5332G The Age of Reformations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the breakup of western European Christian unity in the sixteenth and seventeenth centuries, with a particular focus on the Continental (Lutheran, Calvinist, and Radical) denominations and the social, political, and economic consequences for all Europeans. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5332, RELS 5332, RELS 5332G.**HIST 5335G World War II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The Second World War from its origins to its consequences. The military campaigns are covered, but there is also emphasis on the personalities, the technology, the national policies, and the effect of the war on the home fronts. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5335.

HIST 5336G Revolutionary France**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The Revolutionary Era in France has inspired poets, politicians, social critics, and clergy all over the world, and its impact, causes, and significance have been debated for more than two centuries throughout the globe. That event was the French Revolution. This Revolution arguably set the tone for much of nineteenth- and twentieth-century European History, and inspired subsequent revolutionary events throughout much of the globe. Finally, the French Revolution was instrumental to the creation the national consciousness of France as we know it today. This course is designed as a survey addressing major events, key players, causes, and consequences of the French Revolution. This course is additionally designed to familiarize students with the diverse ways in which historians have continued to debate and interpret the unfolding and significance of Revolutionary France. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5336.**HIST 5339G Britain and the World****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the diplomatic, economic, colonial, environmental or cultural relationships between the British Isles and the broader world since 1485. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5339.**HIST 5430G Modern France and French Society in Global Context****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course affords a topical overview of major events, themes, and issues concerning the History of Modern France and its place within major patterns of European and Global History. The cultural, political, gender, racial, and imperial dimensions of French History will be underscored. Topics include: origins and course rise and fall of the Old Regime French monarchy from Renaissance to Revolution, the French Revolution and revolutionary transformations in Modern France, France and its Empire from c. 1870 to Decolonization, French society from Napoleon to the present, or France and the French Empire in the era of the World Wars (1914-1945). Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5430.**HIST 5530G 20th Century Russia****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the history of Russia in the 20th century. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5530.**HIST 5531G Modern Japan****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Japan through the Tokugawa period to its nineteenth century emergence from isolation and its growth as a world power with emphasis on traditional culture, industrialization, and post-WW II society. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5531, INTS 5531, INTS 5531G.**HIST 5532G Modern China****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History of China from the Qing dynasty to the early years of People's Republic, with emphasis on political, social, economic, and intellectual developments. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5532, INTS 5532, INTS 5532G.**HIST 5533G Economic Rivals: U.S.-UK-Japan****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Contrasts the historical development of business and industrialization in the U.S., Great Britain, and Japan from preindustrial times to the present, emphasizing how culture, religion, economics, and politics have shaped business growth, practice, and international trade, creating rival capitalists. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5533.**HIST 5534G Contemporary China****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

History of People's Republic of China from 1949 to the present, with emphasis on political, social, economic, and cultural transformations. Graduate students will be required to complete additional assignments beyond the scope of the undergraduate requirements that demonstrate a level of mastery of the subject matter appropriate to graduate level work, as determined by the instructor.

Cross Listing(s): HIST 5534.**HIST 7630 The Historian's Craft****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This seminar introduces graduate students to professional aspects of teaching, writing, and pursuing research in history, including historiography, philosophy of history, preparing a curriculum vitae, and fundamentals of classroom teaching and tutoring.

HIST 7631 Readings in American History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A reading colloquium in which topics will vary with individual professor. May be repeated as topic/theme varies.

HIST 7633 Readings in European History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A reading colloquium in which topics will vary with individual professor. May be repeated as topic/theme varies.

HIST 7635 Readings in Non-Western History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A reading colloquium in which topics will vary with individual professor. May be repeated as topic/theme varies.

HIST 7638 Research Prospectus**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Planned and supervised research and writing with the goal of producing a research prospectus preliminary to either a Thesis, or a Non-Thesis Project in History, or a Non-Thesis Project in Public History.

HIST 7639 Studies in Georgia History**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Engages a variety of selected topics in Georgia History.

HIST 7640 Introduction to the Study of War and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces core concepts of the study of War and Society, including military thought, war experience, memory, and identity.

HIST 7642 Explorations in War and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Comparative examination of warfare from a variety of perspectives, including memoir, film, literature, and diverse scholarly approaches. Required. Topics vary. May be repeated.

HIST 7644 Case Studies in War & Society
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Uses a case study format to examine the impact of a specific conflict on a society, including economy, politics, culture, and memory. Required. Topics vary. May be repeated.

HIST 7651 Graduate Seminar in Public History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

In this course, students will explore the latest research, theories, and best practices in the field of Public History through readings, discussions, and written assignments. Topics include but are not limited to: museums; oral history; film, new media, and historical knowledge; popular publishing; national parks; visual history; archives; historical preservation.

HIST 7781 Professional Internship in Public History
1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.

This course is designed to give graduate students applied history experiences in museums, historical societies, historical sites, or other venues approved by the History Department Chair or Graduate Director. May be taken only by History graduate students or Certificate in Public History students. The course requires a minimum of 150 hours at the approved site. Maximum of 3 credit hours may apply toward the M.A. degree for students pursuing the thesis option; maximum of 6 credit hours may apply toward the M.A. degree for students pursuing the non-thesis option. This course will not substitute for thesis credit or non-thesis project credit required for the M.A. degree.

HIST 7791 Graduate Internship in History
1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Individually designed project involving off-campus study and research in an appropriate agency. Projects will be under the joint supervision of the sponsoring agency and a faculty supervisor, and must be approved by the History Department Chair or Graduate Director. May be taken only by History graduate students. The course requires a minimum of 150 hours at the approved site. Maximum of 3 credit hours may apply toward the M.A. degree for students pursuing the thesis option.

HIST 7831 Independent Study in History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics vary with professor. May be repeated only once as topic/theme varies (program of study allows only two HIST 7831).

HIST 7900 Non-Thesis Project in Public History
1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.

Building upon the work completed in HIST 7781 Professional Internship in Public History, the student will plan and execute a major public project at, or in conjunction with, their approved site. Students will also complete a 6,000 – 10,000 word technical report that must be approved by a three-person faculty committee and orally defended. While this course will normally be taken following the successful completion of HIST 7781, with the permission of the Department Chair it may be taken concurrently. Open only to students pursuing an MA concentration in Public History or Public History Graduate Certificate.

HIST 7990 Non-Thesis Project in History
1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.

This course focuses on planned research and writing directed by a student's advisor. As part of this course the candidate will produce an article-length paper (approximately 10,000 words) that is defended orally before a committee. Intended for graduate students pursuing the non-thesis option in the M.A. program in History.

HIST 7995 Prof Internship in Pub History
1-6 Credit Hours. 0-12 Lecture Hours. 0-12 Lab Hours.

Individually designed project involving off-campus study and research in an appropriate agency. Projects designed to require at least two terms for completion, during which time the student will be under the joint supervision of the sponsoring agency and the faculty supervisor. Upon completion of the project, students will present the formal report to the master's internship committee. The report must be approved to satisfy the requirement for the master's degree. May be repeated for a maximum of nine credits with a maximum of six credits only counting toward the degree.

HIST 7999 Thesis
1-12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Planned research and writing directed by student's thesis advisor.

HLTH Health

HLTH 1520 Healthful Living
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Introduces students to fundamental concepts associated with healthful living throughout the life span in modern society. Course content focuses upon the promotion of health and wellness within individuals, families and communities through an understanding of healthful living, development of healthy lifestyles and avoiding or overcoming harmful habits.

HLTH 2120 Safety Principles and First Aid Techniques
2 Credit Hours. 0,1 Lecture Hours. 0,3 Lab Hours.

Enables students to learn to function more effectively in personal, social and vocational roles by developing expertise that will enable them to reduce to a minimum the risk of accident involvement. Special emphasis is placed on the concepts of accident causation, counter measures and how to respond to a wide variety of injury and sudden illness emergencies. Students satisfying American Red Cross standards will receive certification in Community First Aid and Safety/Community CPR.

HLTH 2510 Medical Terminology
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

Equips the student with the basic skills needed to read, understand and interpret medical terms common to health related issues and tasks.

HLTH 3133 Health Prom Prog Planning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides the student with the theory and practical applications of planning, developing, implementing and evaluating health promotion programs in a variety of settings. The focus will be on a global approach to planning with emphasis on the worksite, hospital and the community as settings for health promotion programming.

HLTH 3135 Topics in Coordinated School Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will review and synthesize content on selected topics in school health such as mental health, intention and unintentional injury, personal health, chronic and communicable disease, and environmental health.

Prerequisite(s): A minimum grade of "C" in HLTH 1520.

HLTH 3332 Coordinated School Health Programs
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to study the basic principles and practices underlying the organization and administration of a coordinated school health program including the relationship to current child health status. Assessment and planning of developmentally appropriate health instruction, examination of health education curricula with content focus on the following health topics: nutrition, consumer health, environmental/community health, disease prevention, sexuality and substance use education will also be addressed.

Prerequisite: A minimum grade of "C" in HLTH 1520; and junior standing and formal acceptance into the Teacher Education Program or consent of instructor.

HLTH 3431 Methods and Materials for School Health Education
3 Credit Hours. 0,2 Lecture Hours. 0,3 Lab Hours.

Introduces the student to productive, creative, innovative and effective methods needed to implement comprehensive school health education. Students will become familiar with organizing and presenting health content, health materials, health curricula, community resources and using technology for K-12 with emphasis on middle and secondary school students. An integral component of the class will be the participation in peer teaching experiences in the school setting.

Prerequisite(s): A minimum grade of "C" in HLTH 1520 and Sophomore status and above.

HLTH 3432 HPE Curriculum Development
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides the student with the knowledge, skills, and resources to develop a philosophical position and curricular materials consistent with that position and with state and national guidelines.

Prerequisite(s): Admission to Teacher Education Program in Health and Physical Education.

HLTH 3530 Health and Physical Education for the Early Childhood Teacher
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Develops the elementary classroom teacher's ability to organize and implement a developmentally appropriate health and physical education program for students. Emphasis will be placed upon teaching strategies and methodologies.

Prerequisite(s): Admission to Teacher Education Program.

HLTH 6133 School Health Education Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to introduce the student to productive, creative, innovative and effective methods needed to implement comprehensive school health education. Students will become familiar with organizing and presenting health content, health materials, health curricula, community resources and using technology for K-12 with emphasis on middle and secondary school students.

Prerequisite(s): Admission to MAT in Health and Physical Education program or MS in Kinesiology with concentration in Physical Education.

HLTH 7099 Selected Topics in Health Science
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Provides the student with the opportunity to conduct an in-depth study of selected topics in health science. Particular attention will be given to the critical evaluation and presentation of research.

Prerequisite(s): Permission of Instructor.

HLTH 7130 Issues and Trends in School Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will address the processes and issues associated with planning, implementing, evaluating, and organizing a coordinated school health program in accordance with national and state guidelines.

HLTH 7238 Women's Health Issues
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**HLTH 7239 Health and Aging**
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**HLTH 7430 Human Dev/Health Issues**
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**HLTH 7431 Health and Nutrition**
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**HLTH 7760 Practicum in Community Health Education**
6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Permits the student to receive practical experience in a selected health related setting.

Prerequisite(s): Permission of Graduate Program Director.

HLTH 7899 Directed Individual Study
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

Prerequisite(s): Permission of Instructor.

HLTH 8431 Health and Human Sexuality for Educators
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Prepares current and future sexuality educators for implementing sexuality education programs in various settings, including schools, colleges, and universities and community programs.

Prerequisite(s): Undergraduate course in sexuality or Permission of instructor.

HSPM Hlth Service Policy Mngt

HSPM 6030 Healthcare Economics and Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the market for medical services, with the view that the special nature of the market demands careful economic analysis.

Topics include the demand for health and the derived demand for health/medical care and insurance, the supply of medical services, the roles of uncertainty and information, and the problems of pricing production and distribution of health and medical services. An introduction to federal and state legislative, administrative, and budget systems as they affect health services. The course focuses on the study of selected health policies, considering them in their historical perspective, present status, and future direction within their social economic and political contexts.

HSPM 6136 Health Services, Management, Human Resources and Governance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide a detailed understanding of the administrative and organization management of healthcare systems, including analysis of management problems, planning, evaluating, operations and policy analysis within the healthcare environment. Selected topics from the healthcare profession of management will also be covered.

HSPM 7030 Healthcare Marketing and Strategic Planning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course offers an introduction to strategic planning and management in health services organizations. Processes and formats employed in strategic planning and marketing are presented and applied in case studies and a final project. Elements of market assessment, environmental analysis and strategy development are presented and applied to course practices.

HSPM 7090 Selected Topics in Health Services Policy Management
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Allows the student the opportunity to receive specialized and/or focused instruction in a health services policy and management health topic not generally offered by the department.

HSPM 7131 Health Organization Theory, Behavior and Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Integrating theory and concepts from organizational theory and behavior literature, this course provides applications to improve the management of health services organizations.

HSPM 7133 Public Health Policy and Ethics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Prepares students to make critical decisions in regards to health care policy and biomedical ethics. Includes exploration of basic economic, political and social determinants of health policy. Substantive legal topics covered include the balance between individual rights and public health initiatives, confidentiality, medical malpractice and informed consent, medical directives and living wills, legal rights of access to health care and health care reform. Methods of implementing change through policy making and the legislative process will be presented.

HSPM 7135 Public Health Policy Development and Evaluation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to policy analysis and management by examining issues in the health sector. It fosters an appreciation of the complexity of policy problems and provides the basic tools used in public health policy design, implementation and evaluation.

Prerequisite(s): A minimum grade of "B" in HSPM 7133.

HSPM 7137 Health Care Financing and Payment Systems
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides the student with an understanding of payment systems for hospitals, long-term care organizations, integrated delivery systems, ambulatory care and other health care providers. Specific health care financing topics include: third party payment reimbursement system for private and public insurers, capitation, legislated cost containment strategies (DRGs and PPSs), medical payment incentives, risk assessment and health reform initiatives.

HSPM 7138 Managerial Epidemiology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Managerial Epidemiology provides a solid balance of baseline materials on epidemiologic methods with a focus on tools and skills required to succeed as a public health or healthcare manager. This course focuses on the purpose, focus and tools for managerial epidemiology, thus broadening the definition and scope of Epidemiology from the distribution, spread, and containment of health problems in populations to the planning, organization, and management of health services. This course is designed for master's level healthcare managers and graduate students in health policy and management. Students will develop hands-on, data-driven, analytic management skills. Managerial Epidemiology provides students the opportunity to apply epidemiologic data on incidence and prevalence in conjunction with administrative data on cost and quality in order to gain an understanding of the application of enhance access and delivery of high quality services in a cost-effective and efficient manner.

HSPM 7230 Health Leadership and Strategic Planning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course deals with the application of leadership theory and strategic management and planning principles to a variety of "real world" management issues in health service organizations.

HSPM 7232 Public Health Finance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the structure and functioning of the finance components of the public health system. Public health organizations will be discussed within the context of the financial environment that includes financial management, managerial accounting, revenue cycle management, and funding and financial management of grants/contracts. The course also examines key financial tools and analyses for financially related decision making within the principles of strategic management applied to public health organizations amid a dynamic changing environment.

HSPM 7233 Information Management and Decision Making in Health Services
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on the fundamental concepts and applications of managing information as a health services corporate asset, emphasizing converting data into information for decision support.

HSPM 7235 Healthcare Law and Ethics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The purpose of this course is to introduce students to legal issues in public health and healthcare. Basic legal principles underlying the legal system, governmental regulation, development of legal rules and how to interact effectively with the legal system as public health practitioner will be explored. This course has two main purposes: first, to examine the legal context of the relationship between the individual and the community; and second, to understand public health regulations in the context of a market-driven system.

HSPM 7236 Health Informatics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course presents the knowledge, infrastructure, functions, and tools of health informatics. It explores technology, planning and management and applications in public health and health care. The emphasis is on conceptual frameworks as well as a deeper level of engagement on system applications. It focuses on the application of health technology, with a particular emphasis on the private/public sector of health management. It is designed to familiarize students with core concepts and issues confronting managers in the health sector associated with planning, implementation and evaluation of information systems. The course provides an overview of the theory, processes and applications of information systems and how they relate to health policy and management. It also provides a basic understanding of data standards and requirements, and the critical concepts and practice in mapping and interpreting health information.

HSPM 7332 Population Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Delivering care to meet the needs of the population of the communities, a health organization service requires a strategic approach and an organizational culture that attends to those healthcare needs. This course is designed to familiarize students with the current applications of social and behavioral sciences. It is an overview of healthcare and public health management and administration, managerial decision making and the practical knowledge, tools, processes and strategies required to operate successfully with a population health focus by the healthcare organization.

HSPM 7334 Human Resources Healthcare
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on functions and concepts required for managing human resources in organizations. It combines traditional human resource management (HRM) functions with concepts from organization behavior. Course content includes selection, training and development, compensation, performance appraisal, motivation, organizational development, union activity, and modes of conflict resolution.

HSPM 7335 Healthcare Operations Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines operational issues in health care management. Topics include systems analysis, continuous quality improvement and re-engineering, demand forecasting, facility location and design models, decision analysis techniques, linear programming, queuing and waiting models, inventory control models, and statistical quality control. The goal is to instill an understanding of the language, applications, and limitations of quantitative models with regard to decision on making and problem solving in health care organizations.

HSPM 7336 Healthcare Supply Chain Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The healthcare supply chain is a vital core business component of the health organization with the mission of delivering the technological elements of the patient care process to the providers of care. From strategic sourcing and purchasing, acquisition, logistics, inventory management, to point of use applications, this course provides understanding, knowledge and evaluation models to operate and manage an organization's enterprise resource planning and management system, specifically with regard to the supply chain system and the management of that system as evaluated from strategic operations management and financial perspective.

HSPM 7338 Contemporary Issues in Healthcare
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines operational issues in health care management. Topics include systems analysis, continuous quality improvement and re-engineering, demand forecasting, facility location and design models, decision analysis techniques, linear programming, queuing and waiting models, inventory control models, and statistical quality control. The goal is to instill an understanding of the language, applications, and limitations of quantitative models with regard to decision making and problem solving in health care organizations.

HSPM 7431 Public Health Practice Trends
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Today's public health landscape is increasingly complex and constantly changing. This course focuses on emerging trends and challenges in public health practice that epitomize the increasing complexity and nature of challenges facing public health practitioners.

HSPM 7432 Theoretical Underpinnings of Health Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course discusses the theoretical foundations of health policy including the individual, community-based, organizational, and systems frameworks for health policy.

HSPM 7433 US Health Systems
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course discusses the history and evolution of health systems in the United States and in other countries. Topics include the U.S. legislative process and the health policies underpinning these approaches. This course also includes comparative approaches from other countries in dealing with insurance, immunizations, health access, drug addiction and regulation.

HSPM 7434 Qualitative Research and Evaluation Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores the use of qualitative research methods, from purpose and philosophy to evaluation, in health policy.

HSPM 7710 Administrative Internship
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

Field experience for graduate students which consist of a three part experience of 300 contact hours which will include the following: 1. Students are to complete rotation rounds of all administrative and clinical departments, 2. Students are to attend major management and governance meetings, and 3. Students are to be assigned special projects for completion at the end of the administrative internship. The student must present a written presentation to Master of Healthcare Administration (MHA) faculty for assessment.

HSPM 7890 Directed Individual Study
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

HSPM 8233 Quantitative Research and Evaluation Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to the fundamentals and practical application of quantitative methodologies for answering policy and policy-relevant health services research questions. It discusses foundational concepts related to study conceptualization, study design, data analysis and interpretation, and reporting. Topics covered in this course include foundations of health services and policy research, research design, sampling, measurement, univariate and bivariate analysis, regression, multilevel analysis, panel data analysis, exploratory factor analysis, confirmatory factor analysis and structural equation modeling. Hands-on application of research methods is integrated throughout the course through the use of a statistical software application and real-world data.

HSPM 9431 Health Policy Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers concepts, principles, tools, methodologies, and approaches in conducting policy analysis. The step by step approach to policy analysis will provide students with a systematic "roadmap" to their journey into the practical world of health policy analysis.

HSPM 9432 Public Health Advocacy and Communication
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Advocacy is an essential component of the development, promotion and implementation of public health policy. This course will provide the foundation to effectively advance the rural health policy agenda in a changing environment. In this course we will examine the principles of shaping attitudes and actions about health and health care and practices using effective interpersonal, organizational, and community-based communication tools. We will also explore the use of various media processes to advocate for health among diverse populations.

HSPM 9433 Rural & Underserved Populations, Systems, and Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A large number of Americans live in rural and under-served areas. These areas have health issues; some unique to these areas and some that they share with more urbanized areas. This course examines the challenges of rural and under-served populations, their health systems, and policies specifically affecting them.

HSPM 9434 Underserved Populations, Systems, and Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Critical to public health's focus on population-based interventions is reaching underserved populations whether in low-income urban neighbors, rural areas, or specific populations such as prisoners, the homeless, or stigmatized groups. Both within the US and among underserved populations globally, access to health care and outreach interventions that incorporate the needs of the underserved are among the greatest challenges to any country's public health. This course examines the disparities among underserved populations from a public health perspective including systems and policies specifically affecting such groups. Case studies will include both the United States and other countries. Key to this course are questions of what constitutes adequate and ethical healthcare, how to provide such healthcare, and evidence-based programs shown to effectively address health issues among the underserved.

INTS International Studies

INTS 2090 Selected Topics in International Studies
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.
 Selected Topics in International Studies.

INTS 2130 Introduction to International Studies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course is designed to introduce students to a complex array of interdisciplinary perspectives that define the relationships and issues of the contemporary international system. Students are exposed to economic, social, political, geographical, technological, and cultural challenges facing the contemporary world.

INTS 2132 Politics of Ethnicity
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Analyzes the politics of ethnicity and ethnic conflict.

INTS 3090 Selected Topics in International Studies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Selected Topics in International Studies.

INTS 3130 Contemporary World Cultures
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Survey and analysis of contemporary world cultures, in which selected cultural features, such as religion, political institutions, and interpersonal communications are examined across applicable cultures.

Prerequisite(s): INTS 2130.

INTS 3132 Asian Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the diversities across and within South, Southeast, and East Asia. It analyzes the following key themes: nationalism, colonialism, regime change, economic development, civil society and social movements, political conflict, and ethno-religious pluralism.

Cross Listing(s): POLS 3132.**INTS 3134 Middle East Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines political change and economic development in the Middle East in the last century, focusing on colonialism, radical Islam, oil politics, Arab nationalism, the Arab-Israeli conflict, and the U.S. role in the Middle East.

Cross Listing(s): POLS 3134.**INTS 3230 Global Issues****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of selected global issues and problems facing all nations, states, and peoples.

Prerequisite(s): INTS 2130.**INTS 3232 Psychology of Gender****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines biological and environmental determinants of gender, as well as, the role of gender in cognitive functioning, personality, physical and mental health, interpersonal relationships, and work life.

Prerequisite(s): PSYC 1101.**Cross Listing(s):** PSYC 3232.**INTS 3234 Introduction to the European Union****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce students to the history, institutions, policies, and cultures of the European Union and its member states.

Cross Listing(s): EURO 3234, POLS 3234.**INTS 3236 International Relations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to the basic concepts of international relations, including those of war and peace, power, foreign policy, international organization, markets, demography, ecology, and the impact of information technology. Students will be provided with the necessary concepts, theories, and methods used in the discipline including quantitative analysis in order to gain a better understanding of the nature and problems of international relations.

Cross Listing(s): POLS 3236.**INTS 3239 Human Rights in International Relations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore the vulnerability of various political minorities to human rights abuses at the global level and provide an assessment of the roles of states, international organizations, and non-governmental organizations in human rights issues.

Prerequisite(s): POLS 1101 and POLS 2101.**Cross Listing(s):** POLS 3239.**INTS 3250 The Muslim World to Tamerlane****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the rise of Islam in the seventh century and of the various Muslim societies that arose prior to the fifteenth century from the Iberian Peninsula to South Asia.

Cross Listing(s): HIST 3250, RELS 3250.**INTS 3251 The Muslim World Since Genghis Khan****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the global reach of the Islam since the thirteenth century. The focus is on how Muslim societies have dealt with the precipitous decline in their well-being since the pinnacle of influence in the seventeenth century.

Cross Listing(s): HIST 3251, RELS 3251.**INTS 3333 International Public Relations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces the performance of public relations in international contexts. Consideration will be given to the political, economic, social, and historical contexts affecting public relations practices. Special emphasis will be placed on the interaction between government and public relations.

Cross Listing(s): PRCA 3333.**INTS 3338 Contemporary Europe****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the European experience since the end of World War II. Emphasizes the political, economic, social, cultural, and intellectual change and continuity in the years 1945 to the present.

Cross Listing(s): HIST 3338.**INTS 3430 International Security Affairs****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an examination of an array of international security concepts and dynamics including features and aspects of both state and individual security. The course addresses applicable actors, institutions, processes, theories and prominent international issues. Upon completion of the course, students will be able to identify and discuss an assortment of issues pertinent to state and individual security threats and policies.

INTS 3431 Identity and Nationalism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the theories behind nationalism and its influence on identity construction. Consideration will be given to the political, social, cultural, and historical contexts affecting the existence of the nation, and its role within the contemporary globalized world. The course also places an emphasis on the special relationship between the nation and the state.

INTS 3532 The Modern Middle East**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the major developments in the Middle East since World War I.

Cross Listing(s): HIST 3532.**INTS 3533 Global Health****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an interdisciplinary understanding of how socio-structural factors, global institutions, and political interests impact health outcomes and policies at various levels of analysis. Considering various theoretical perspectives, the class surveys various health-related subjects, including nutrition, health systems, infectious disease, health technologies, and human rights.

INTS 3534 Modern Southeast Asia**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Common themes of the region from 1600, including the impact of the West, the nationalist response, and the post-WW II rise of a modern community of nations.

Cross Listing(s): HIST 3534.**INTS 3536 Global Food Security****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the histories, ideas and practices of 'food security', as well as the contemporary politics of the global food system. Topics include the relationship between food and war, agrarian modernization, agricultural trade, food as a human right, land grabbing, and food sovereignty.

INTS 3537 Colonial Latin America**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A political, social, and economic survey of Latin America from its pre-Columbia era to its struggles for independence.

Cross Listing(s): HIST 3537, LAST 3537.**INTS 3538 Modern Latin America****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A political, social, and economic survey of Latin America from independence to the present.

Cross Listing(s): HIST 3538, LAST 3538.

INTS 3539 Cuba and the Caribbean**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will discuss the development of the Caribbean generally before addressing contemporary policy issues in a rapidly changing Cuba. Regionalism, economic integration and international organizations will be discussed in this context as well.

INTS 3540 International Leadership**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Is there a role for leadership in international and transnational politics today? In this class, students will analyze this question by studying old and new texts on leadership and practicing leadership in an intensive field activity.

INTS 3551 Introduction to United Nations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students will be introduced to the concepts of international organizations and the part that they play today in international politics. Specifically, we will examine the United Nations, its structure and function, its failures and successes, and what the future holds for this organization.

Cross Listing(s): POLS 3551.**INTS 3571 Development and Sustainability****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Sustainable Development offers students a unique opportunity to merge theory, policy, and practice in a meaningful contemporary context that highlights interdisciplinary and holistic perspectives on the economic, social, and environmental dimensions of development. The course will address alternative and post-modern considerations for sustainability so as to provide the context for considering cases in the real world.

INTS 3572 Comparative Democratization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is intended as a broad, introductory survey of the political, social, cultural, economic, and international factors that foster the development and consolidation of democracy. The course will address the philosophical origins and normative aspects of democracy before examining the process of democratization through a historical and comparative perspective.

INTS 3573 Sustainable Ocean Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.****INTS 3620 Research Methods in International Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the types of qualitative research designs and research techniques inherent in the multidisciplinary concentrations of International Studies. Students will examine and have direct experience in data collection, analysis, and research reporting. Registration approval may be granted by permission from the Department Chair if students have sufficient upper-division credits.

Prerequisite(s): A minimum grade of "C" in INTS 2130 and INTS 3130 OR INTS 3230.**INTS 4090 Selected Topics in International Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected Topics in International Studies.

Cross Listing(s): EURO 4090.**INTS 4132 U.S. Foreign Policy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides basic information and understanding of the key elements and actions involved in the formulation and execution of U.S. foreign policy. Special attention is given to the impact of U.S. foreign policy on the international system.

Cross Listing(s): POLS 4132.**INTS 4133 U.S. Diplomacy: The Cold War****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the history of U.S. foreign relations from the aftermath of World War II to the collapse of the Soviet Union.

Cross Listing(s): HIST 4133.**INTS 4135 International Organizations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analytical study of the organization, powers, and problems of global and regional international agencies with particular emphasis upon the European Union.

Prerequisite(s): CRJU 1100 or POLS 2101.**Cross Listing(s):** POLS 4135.**INTS 4136 Politics of Industrialized Nations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on examination of the cultural, social, and political factors that contribute to the structure, function, and problems of contemporary nation-states in the Global North.

Prerequisite(s): POLS 1101 or POLS 2101.**Cross Listing(s):** POLS 4136.**INTS 4137 Politics of the Global South****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students examine the cultural, social, historical and political factors which have shaped the politics and policies of nation-states in the "Global South." Special emphasis will be given to states that are found in Latin America, Africa, and Asia.

Prerequisite(s): CRJU 1100 or POLS 2101.**Cross Listing(s):** POLS 4137.**INTS 4138 International Terrorism****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to explore the political, religious, economic, and social issues which pervade the global environment. Key issues to be addressed include different forms of terrorism, conflict resolution, and at the state level reunification issues. Emphasizes the critical, and perhaps, decisive and controlling impact which terrorist groups level on policy changes.

Cross Listing(s): POLS 4138.**INTS 4238 International Conflict****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the causes of international and civil war, including theories about alliances, power, bargaining, arms races, conventional and nuclear deterrence, nuclear weapon proliferation, and ethnicity.

INTS 4330 Rhetoric of International Relations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the discourse of international relations from a rhetorical perspective. Emphasizes the analysis and criticism of persuasive messages used in international relations from Aristotlean, Neo-Aristotlean, dramatic and narrative rhetorical theoretical bases.

Cross Listing(s): COMS 4330.**INTS 4581 Model United Nations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Prepares students for Georgia Southern's participation in the National Model United Nations Conference in New York City in the spring of each year. Students learn the structure, function and organization of the United Nations as well as in-depth knowledge of the particular country that they will be representing in New York. Emphasis is placed on learning parliamentary procedure and diplomatic skills as part of the research conducted for becoming an advocate of the country being represented.

Prerequisite(s): INTS 3551 or POLS 3551.**Cross Listing(s):** POLS 4581.

INTS 4582 Model United Nations II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed for students in the second year of their participation on Georgia Southern University's National Model United Nations (NMUN) delegation. In addition to studying a different country and region of the world which requires students to learn the history, culture, and foreign policies of their assigned country, NMUN students also research and write on topics in different United Nations committees. Second-year delegates also take on added responsibility to plan, coordinate, and execute three Georgia Southern-sponsored Model United Nations conferences. Emphasis is placed on learning the intricacies and nuances of parliamentary procedure as it applies to both the Middle School and High School conferences conducted by Georgia Southern University.

Prerequisite(s): POLS 4581 or INTS 4581.**Cross Listing(s):** POLS 4582.**INTS 4630 Seminar in International Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced course focusing on major themes and issues in international relations.

Prerequisite(s): INTS 3130 or INTS 3230.**INTS 4790 Internships Abroad****3-12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides practical experience abroad. Students are selected by departmental process.

INTS 4890 Directed Independent Study**1-12 Credit Hours. 1-12 Lecture Hours. 0 Lab Hours.**

Concentrated study of a topic or theme of an international nature and scope.

Prerequisite(s): Permission of instructor.**INTS 5195 Exchange Semester Abroad****1-18 Credit Hours. 1-18 Lecture Hours. 0 Lab Hours.**

This course is designed to facilitate student participation in approved exchange semester abroad programs offered through Georgia Southern University. Registration in this course combined with a completed Course of Study Approval Form provides permission to submit official credit awarded by an approved host institution abroad as transfer credit to Georgia Southern University.

INTS 5531 Modern Japan**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Japan through the Tokugawa period to its nineteenth century emergence from isolation and its growth as a world power with emphasis on traditional culture, industrialization, and post-WW II society.

Cross Listing(s): INTS 5531G, HIST 5531, HIST 5531G.**INTS 5532 Modern China****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Cultural change and continuities of China from 1600 to its response to the West, the rise of the Peoples' Republic, and the Post-Mao present.

Cross Listing(s): INTS 5532G, HIST 5532, HIST 5532G.**INTS 5633 Seminar in International Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to familiarize students with the theories which guide the conduct and analysis of international relations. These theories are examined in both their classical and contemporary context and used to evaluate and assess international relations' phenomena, such as international conflict, international trade and finance, and international human rights.

Prerequisite(s): Minimum grade of C in POLS 2101 and POLS 2130.**Cross Listing(s):** INTS 5633G, POLS 5633, POLS 5633G.**INTS 5634 Seminar in Comparative Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an overview of the comparative method and theory building in comparative politics focusing on the macro-structural, rational choice, cultural and statist approaches. Furthermore, it analyzes various themes within Comparative Politics: political culture, regimes and regime transitions, elections and party systems, ethnicity and nationalism, political mobilization, revolution, civil wars and insurgencies. The topical focus is substantiated with relevant case studies, case comparisons and cross-case analysis to explore the diversity of the field and political processes across the world.

Prerequisite(s): A minimum grade of "C" in POLS 2101 and POLS 2130.**Cross Listing(s):** POLS 5634, POLS 5634G.**INTS 5635 Seminar in International Organizations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analytical study of the organization, powers, and problems of global and regional international organizations.

Prerequisite(s): A minimum grade of "C" in POLS 2101 and POLS 2130.**Cross Listing(s):** INTS 5635G, POLS 5635, POLS 5635G.**INTS 5531G Modern Japan****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Japan through the Tokugawa period to its nineteenth-century emergence from isolation and its growth as a world power with emphasis on traditional culture, industrialization, and post-WWII society. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): INTS 5531, HIST 5531, HIST 5531G.**INTS 5532G Modern China****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Cultural change and continuities of China from 1600 to its response to the West, the rise of the People's Republic, and the Post-Mao present.

Cross Listing(s): INTS 5532, HIST 5532, HIST 5532G.**INTS 5533G Economic Rivals: U.S.-EC-Japan****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Contrasts the historical development of business in the U.S., European Community, and Japan from preindustrial times to the present, emphasizing how culture, economics, and politics have shaped business growth and international trade, creating rival capitalists. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): INTS 5533, HIST 5533, HIST 5533G.**INTS 5633G Seminar in International Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to familiarize students with the theories which guide the conduct and analysis of international relations. These theories are examined in both their classical and contemporary context and used to evaluate and assess international relations phenomena. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): INTS 5633, POLS 5633, POLS 5633G.**INTS 5635G Seminar in International Organizations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analytical study of the organization, powers, and problems of global and regional international agencies with particular emphasis upon the European Union. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): INTS 5635, POLS 5635, POLS 5635G.

IT Information Technology

IT 5090G Selected Topics in Information Technology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides an opportunity for in-depth study of selected topics or emerging areas in information technology. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Permission of Instructor.

Cross Listing(s): IT 5090.

IT 5135G Data Analytics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers the basic issues involved in building and populating a data mart to support the planning, designing and building of business intelligence applications and data analytics. Core concepts related to business intelligence and analytics are covered. For graduate students a significant research project will be assigned as a culminating experience.

Prerequisite(s): A minimum grade of "C" in IT 3233 or BUSA 3131 and CISM 3133.

Cross Listing(s): IT 5135.

IT 5233G Web and Mobile Security Fundamentals

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Cybersecurity is a cornerstone of web-based solutions for mobile applications, networks, and e-commerce. IT professionals must learn to predict, prepare for, and defend against cyber attacks from a myriad of sources if they are to build and support the next generation of business solutions. In this course, you will learn the principles of designing, building, and testing secure web-based solutions. You will also learn how to identify and prevent common security vulnerabilities. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverable representative of graduate level work, as determined by the instructor.

Prerequisite(s): Permission of instructor.

Cross Listing(s): IT 5233.

IT 5235G Advanced Web Interfaces

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an introduction and application of human-computer interaction theories to web-based applications. It covers the evaluation of user interfaces using various techniques including heuristic evaluation and user testing. For graduate students a significant research project will be assigned as a culminating experience.

Prerequisite(s): A minimum grade of "C" in all of the following: (IT 1330 OR IT 2430 OR CSCI 1301) and IT 3132.

Cross Listing(s): IT 5235.

IT 5236G Distributed and Mobile Systems

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores the infrastructure which forms the basis of commercial, web-enabled applications on mobile and small devices, as well as personal computers. The course will focus on designing mobile web applications that provide a high level of security, reliability, scalability, and availability. Through this course, students will develop proficiencies in current web technologies employed by businesses. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): Permission of instructor.

Cross Listing(s): IT 5236.

IT 5433G Information Storage and Management

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers modern storage infrastructure technology and management including: challenges and solutions for data storage and data management, intelligent storage systems, storage networking, backup, recovery, and archive, business continuity and disaster recovery, security and virtualization, managing and monitoring the storage infrastructure. Best practices for security policies of cloud resources including permissions, privileges and storage management are analyzed and performed. For graduate students a significant research project will be assigned as a culminating experience.

Prerequisite(s): A minimum grade of "C" in all of the following: IT 2333 and IT 3231.

Cross Listing(s): IT 5433.

IT 5434G Advanced Network Security

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers a wide range of topics in network security and information security, including but not limited to security and privacy laws and regulations, malware and intrusions, crypto ciphers and hash functions, various authentication and authorization methods and mechanisms, firewalls, web and email security, security protocols and Wi-Fi security. From this course, students will learn the security theories, understand the corresponding methods and mechanisms, and practice through hands-on lab assignments, extending their knowledge and skills and developing a comprehensive and advanced perspective of network security. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): Permission of instructor.

Cross Listing(s): IT 5434.

IT 6130 Theoretical Foundations for Network Analysis

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide a detailed review of fundamental relevant to the study of telecommunications, and data communications. Topics covered will include Shannon's Theorem, elements of Graph theory, Queuing Theory, Probability, Number Systems, Matrices and more. Students will complete several exercises using MATLAB and Microsoft Excel to reinforce topics covered in lecture by solving network related problems. Discrete event simulations software (OPNET) will also be used to observe and analyze concepts and behaviors in communications networks.

IT 7090 Selected Topics in Information Technology

1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

This course provides the student with an opportunity for in-depth study of selected topics in information technology.

Prerequisite(s): Permission of Instructor.

IT 7130 IT Governance

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course presents a holistic approach to integrating the information technology services with the organization. It focuses on strategy, design, implementation, operations and continual improvement of information technology. IT Governance addresses how an organizations maintains flexibility through the use of Information Technology, assuring the IT organization aligns its strategies with those of the organization it supports. This course looks at multiple IT Governance structures and looks at the data that is collected in these structures.

IT 7131 Data Science Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the concepts and techniques of Data Science and covers decision making support systems, business intelligence and analytics, data science positions and roles in business firms. Topics include data extraction from homogeneous and heterogeneous data sources, data processing and file types, data manipulation, conversion, and integration. Students will use software for statistical analysis and interpretation, predictive analytics, machine learning, and the fundamentals of big data technologies. Students will examine and critique current research in the field.

IT 7133 Digital Security and Forensics Investigation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the logical weapons and tools utilized in computer network exploitation, attacks and defenses. It also covers the digital forensics process, tools and methods for the detection and recovery of information on hardware or hidden within other formats. Topics also include cryptographic analysis, password recovery, the bypassing of specific target operating systems, and obtaining data from a digital device that has been destroyed on various platforms. This course also includes research components that require students to conduct research on a specific topic. Research deliverables include a term paper and presentation.

IT 7134 IT Project Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an overview of theoretical and practical concepts in management of IT projects; explores unique and particular challenges resulting from rapid technological change and dynamic environments; difficulty of managing changes in organizations resulting from introducing or revising information technology, emphasizing the change management role of the IT project leader.

IT 7135 Seminar in IT**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a survey of information technology research and current topics.

IT 7790 MSIT Internship**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A campus-approved and coordinated IT-experience-based internship serves as an elective course. The internship will include a minimum of 100 hours of work per credit hour. A written report by the student, along with an employer/supervisor's evaluation of the student's work will be required before a letter grade can be given.

Prerequisite(s): Permission of the Graduate Program Director or Department Chair.

IT 7891 Independent Study**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent study is available for students to undertake individualized experimentation, research, study related to the discipline, or a capstone project. The specific topic will be approved by a faculty member in the program, and credit will be assigned commensurate with the magnitude of the study.

IT 7895 Special Problems in IT**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Individual and specialized study in the one of the areas of information technology not otherwise covered in the program. Students must submit a proposal of the special problem for approval by the faculty member of record. Credit will be assigned commensurate with the magnitude of the study.

IT 7999 Thesis**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course focuses on the preparation and completion of the thesis.

ITEC Instructional Tech Ed

ITEC 5233G Foundations of Technology-Enabled Learning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces education majors to the effective uses of instructional technology in supporting student centered technology-enabled learning. A systematic approach to selecting, producing, and utilizing various instructional technologies will be covered with an emphasis on online teaching and learning for P-12 environments.

Cross Listing(s): ITEC 5233.

ITEC 7090 Selected Topics in Instructional Technology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Promotes specialized training in new and/or emerging instructional technologies/methodologies or topics appropriate to the needs of in-service personnel. Attention will be given to a range of specific needs as they reach special significance in local school systems.

ITEC 7232 Visionary Leadership in Instructional Technology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to develop the knowledge, skills, and dispositions of instructional technology leaders to inspire and lead the development and implementation of a shared vision for the effective use of technology to promote excellence and support transformational change throughout educational organizations.

Cross Listing(s): FRIT 7232.

ITEC 7233 Selection and Development of Digital Tools and Resources**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selection and Development of Digital Tools and Resources provides competence in the selection, production, utilization, and evaluation of various formats of instructional technologies. Basic techniques are provided through direct experiences in the design and production of instructional technologies.

Cross Listing(s): FRIT 7233.

ITEC 7234 Information Fluency and Inquiry Learning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an in-depth exploration of digital learning models and relevant standards that focus on information fluency and inquiry learning. Emphasis is placed on the reflective use of technology to facilitate student learning through inquiry learning and the mastery of information fluency skills. Course assignments and activities focus on application of these concepts to the candidate's field of initial certification through collaboration with other teachers, media specialists, and technology specialists.

Cross Listing(s): FRIT 7234.

ITEC 7330 The Internet in Schools**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides learners with a focused look at issues surrounding the implementation and use of emerging applications of the internet in schools.

ITEC 7430 Instructional Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to systems theory as applied to the design of instructor. Examines principles of systems theory in the context of the design, development, selection and utilization of curriculum, instruction and instructional materials.

ITEC 7530 Instructional Technology Foundations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Instructional technology for Educators is an introduction to the use of the computer in the instructional process. The course focuses on the uses of the computer as a medium of instruction. Meets the Special Georgia Technology Requirement for Teacher Certification.

ITEC 7538 Instructional Technology for School Leaders**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course is designed to enhance the skills of school administrators in the area of technology leadership. Included is an overview of the current and emerging trends of technology in schools, technology planning, technology professional development, and technology standards.

ITEC 7539 Technology for Higher Education Leaders**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to develop the necessary knowledge, skills, and dispositions of higher education leaders for the appropriate selection and application of technology tools and resources.

ITEC 8130 Advanced Media Management and Supervision**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the management of school library programs with an emphasis on the collaborative role of the school librarian as an educational leader and school library center administrator.

ITEC 8133 Current Trends and Issues in Instructional Technology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the history and types of research presently conducted in the field of Instructional Technology. Emphasis is placed on current trends and issues, as well as evaluating research in the field of instructional technology as it relates to the student's field of initial certification.

ITEC 8134 Theories and Models of Instructional Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will examine how systematic instructional design processes are applied to develop instruction congruent with specific learning theories, instructional theories, and philosophical orientations in the context of their field of initial certification. The primary focus of the course is technology-based learning materials.

Prerequisite(s): A minimum grade of "C" in ITEC 7430.**ITEC 8135 Pedagogy of Online Learning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide advanced candidates in Instructional Technology the opportunity to develop an online-learning course. Candidates will research current best practices of online learning pedagogy and explore emerging technologies to integrate into the development of the online-learning course. The course is offered in a 100% online format.

ITEC 8136 Field Experience in Online Teaching and Learning**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students will explore existing literature on best practices in online teaching and learning based on their specific contexts, whether K-12, higher education, business, etc. This course incorporates instructional design theory and online pedagogical knowledge putting students' learning into action and practice in an authentic online environment. The primary focus of the course is the students' application of best practices in (an) authentic field-based experience(s).

Prerequisite(s): A minimum grade of "C" in ITEC 8135.**ITEC 8231 Transforming Learning with Technology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Critical examination of the role of technology and instructional design in the teaching/learning process. Review of quantitative and qualitative research relevant to student's area of interest and the impact of technology on student learning. Examination of the use of electronic portfolios to demonstrate student learning.

ITEC 8435 Program Evaluation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Program Evaluation covers the theory and practice of systematic investigation of instructional programs, projects products, and processes. The course is designed to teach practitioners how to assess the effectiveness of endeavors such as quality improvement, enhancing organizational performance, or improving school curricula.

Cross Listing(s): FRIT 8435.**ITEC 8532 Multimedia Tools and Applications****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers issues in the design and development of interactive multimedia instructional lessons. Covers the tools required for the creation of interactive multimedia and is organized around individual student projects.

ITEC 8630 Advanced Seminar in Instructional Technology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced study of theory and research related to technology mediated instruction, including technology integration for meaningful learning, systemic change with technology, legal and ethical issues, and online pedagogy.

Prerequisite(s): Admission to EDD program.**ITEC 8636 Technology, Leadership, and Change****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides advanced students in Instructional Technology with opportunities to review research and current trends related to the integration of technology into teaching and learning. Application of concepts and ideas is achieved through design, development and delivery of a project to close a technology gap in an educational setting.

ITEC 8739 Capstone in Instructional Technology**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

In this capstone course, building on their knowledge of instructional technology and/or school library media, students will work to design, develop, and implement a professional development activity for their colleagues.

Prerequisite(s): A minimum grade of "C" in ITEC 8133, ITEC 8134, ITEC 8135, and ITEC 8636.**ITEC 8838 Field-Based Research in School Library Media****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will initiate, complete and present an acceptable field-based research study in school library media, using a design developed and approved in EDUR 8434. This course will focus on collecting, organizing and analyzing data, as well as composing a formal research paper based on the research study. The course culminates with an oral presentation of the study completed using appropriate technologies. Students are limited to register for this course twice during the program of study.

Prerequisite(s): A minimum grade of "C" in EDUR 8131, EDUR 8434, ITEC 8133, ITEC 8134, ITEC 8135, and ITEC 8636.**ITEC 8890 Directed Individual Study****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The student will propose and carry out an applied or theoretical project in instructional technology.

Prerequisite(s): Permission of advisor.

KINS Kinesiology

KINS 6130 Research Design in Kinesiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides the student with the opportunity to develop skill in designing, evaluating and producing research, with a focus on critical thinking and problem solving.

Prerequisite(s): Undergraduate course in research methods or Permission of Instructor.**KINS 6131 Data Analysis in Kinesiology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides the student with an advanced understanding of data analysis in kinesiology. The goal of the course is for the student to obtain advanced knowledge and skills to analyze and understand research data within the field of human movement.

KINS 6132 Research Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces the student to fundamental principles underlying research methods in sport coaching. Included will be basic procedures for conducting experimental, descriptive, historical, qualitative research, computer applications, basic measurement concepts, statistical methods, critical thinking and scholarly writing.

KINS 6133 Programming for Optimal Performance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide scientifically supported information covering sport training theory, periodization, and sport training methods that can be used by coaches, athletes, and strength and conditioning professionals.

KINS 6134 Elementary Physical Education Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course develops instructional methods in planning, teaching & evaluating psychomotor, cognitive & affective learning in elementary physical education. The emphasis will be on student learning in health related fitness, movement concepts, and skill themes at the elementary physical education level. Specifically, the course will be oriented toward developing appropriate curriculum content & effective teaching skills for elementary physical education.

Prerequisite(s): Admission to MAT in Health and Physical Education program or permission of instructor.

KINS 6135 Physical Education Scientific Topics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to introduce the student to human motion as applied to physical education settings. Course content will explore human anatomy, motor behavior, exercise physiology aspects, and skill analysis.

Prerequisite(s): Admission to MAT in Health and Physical Education program or permission of instructor.

KINS 6136 Physical Activities in P-12 Physical Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course enhances the knowledge, skill, and understanding of activities and games pertinent to P-12 physical education. Skill, strategy, and conceptual transfer, across activities and games will be identified to enhance learner skillfulness and adaptability. Content focus will be on traditional and non-traditional games and activities involving individual and group skills to diversify movement efficiency.

Prerequisite(s): Admission to MAT in Health and Physical Education program or permission of instructor.

KINS 6137 Research Writing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides the student with an opportunity for in-depth study of selected topics in kinesiology. The students will be exposed to scientific writing in health professions and will develop sections of their capstone project/thesis documentation.

Prerequisite(s): Permission of Instructor.

KINS 6234 Adapted Physical Education Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to develop advanced knowledge and skills of an adapted physical educator. Course activities will focus on advanced knowledge of ethics, professional leadership, and assessment of students with disabilities in the K-12 setting. Course objectives focus the specialized knowledge described by the National Consortium for Physical Education and Recreation for Individuals with Disabilities (NCPERID) in the Adapted Physical Education National Standards.

Prerequisite(s): Admission to MAT in Health and Physical Education program, the MS in Kinesiology with concentration in Physical Education program or permission of instructor.

KINS 6325 Teaching Adapted and Elementary Skills and Concepts

2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.
This course is designed to enhance the knowledge, skills, and concepts of health and physical education pertinent to adapted physical education and elementary physical education. The course identifies appropriate teaching sequences, assessment strategies, and developmentally appropriate modifications to enhance student learning in adapted and elementary physical education. Skill, strategy, and conceptual transfer, across activities will be identified to enhance learner skillfulness and adaptability.

Content focus will be on activities involving individual and group skills to diversify movement efficiency for adapted physical education and elementary physical education. Strategies for integrating classroom concepts and fitness concepts into these activities will be addressed.

Prerequisite(s): A minimum grade of "C" in HLTH 6133 and KINS 6134 and admission to MAT in Health and Physical Education program.

KINS 6326 Teaching Health and Secondary Physical Education Skills and Concepts**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course is designed to enhance the knowledge, skills, and concepts of health and physical education pertinent to health and secondary physical education. The course identifies appropriate teaching sequences, assessment strategies, and developmentally appropriate modifications to enhance student learning in health and secondary physical education. Skill, strategy, and conceptual transfer, across activities will be identified to enhance learner skillfulness and adaptability. Content focus will be on activities involving individual and group skills to diversify movement efficiency for health and secondary physical education. Strategies for integrating classroom concepts and fitness concepts into these activities will be addressed.

Prerequisite(s): A minimum grade of "C" in HLTH 6133 and KINS 6134 and admission to MAT in Health and Physical Education program.

KINS 6334 Secondary Physical Education Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course develops instructional methods in planning, teaching & evaluating psychomotor, cognitive & affective learning in secondary physical education. The emphasis will be student learning in health related fitness and game/sport at the secondary physical education levels. Specifically, the course will be oriented toward developing appropriate curriculum content & effective teaching skills for secondary physical education.

Prerequisite(s): Admission to MAT in Health and Physical Education program or permission of instructor.

KINS 7099 Selected Topics in Kinesiology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Provides the student with an opportunity for in-depth study of selected topics in kinesiology.

Prerequisite(s): Permission of Instructor.

KINS 7131 Ethical Issues in Sport and Exercise Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide students with an overview of ethical issues and implications within sport, exercise, and performance psychology contexts. In addition to satisfying the ethics requirement for certification with the Association for Applied Sport Psychology, this course is designed to expose students to knowledge about ethics and ethical decision-making. In addition to gaining knowledge in this area, it is intended for students to have the opportunity to become more aware of their own value system as a sport and exercise psychology professional and gain an understanding as to how ethics and values influence their own professional practice in teaching, research, and applied areas within the field.

Prerequisite(s): A minimum grade of "C" in KINS 7530.

KINS 7135 Sport Coaching Pedagogy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides the student with advanced analysis of sport coaching pedagogy, including pre-competition, in-competition, and post-competition contexts. Students will be introduced to evidence-based principles of sport skills, tactics, and strategy planning, instruction, and assessment; evaluate and reflect on their own coaching performance; and apply these principles to future coaching plans.

KINS 7136 Sociocultural Foundations of Sport Coaching**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides the student with advanced analysis of sociocultural foundations of sport and sport coaching. Students will be introduced to concepts in sociology and social-psychology theory, apply these theories to sport coaching, reflect on their own coaching and athletic behaviors, and develop effective and ethical strategies to enhance coach and athlete performance.

KINS 7137 Scientific Foundations of Human Performance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the study of exercise physiology principles applied to developing training and conditioning programs for enhancing health related fitness and performance. This course is designed to provide a scientific overview of strength and conditioning. Emphasis is placed on the exercise sciences (including anatomy and exercise physiology) and nutrition. Additionally, this course is designed to help prepare students for the nationally accredited Certified Strength and Conditioning Specialist (CSCS) certification exam.

KINS 7138 Practical Applications of Human Performance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide a comprehensive overview of practical applications of human movement. The course will focus on the study of exercise physiology principles applied to developing strength training and conditioning programs for enhancing health related fitness and performance. Emphasis is placed on the testing and evaluation of human movement, exercise technique, program design, and organization and administration. Additionally, this course is designed to prepare students for the practical application portion of the nationally accredited Certified Strength and Conditioning Specialist (CSCS) certification exam.

KINS 7230 Advanced Exercise Physiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the advanced study of the acute and chronic effects of exercise on the physiological systems of the human body.

Prerequisite(s): Undergraduate course in exercise physiology.**KINS 7231 Laboratory Techniques in Exercise Physiology****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Acquaints the student with the use of typical laboratory equipment used in exercise physiology.

Prerequisite(s): A minimum grade of "C" in KINS 7230 or Permission of instructor.**KINS 7232 Health Appraisal and Fitness Testing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines advanced fitness assessments and exercise prescription. Students will learn assessment techniques for a wide variety of client categories and will be responsible for demonstrating application of measurement skill in a format similar to national certification exams.

Prerequisite(s): A minimum grade of "C" in KINS 7230 or Permission of instructor.**KINS 7233 Fitness Program Administration****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the administrative aspects involved in conducting safe and effective fitness programs. Students will learn exercise leadership, patient counseling, emergency procedures, and administrative principles as they apply to clinical exercise settings.

KINS 7234 Clinical Applications of Biomechanics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides the student with the biomechanical knowledge essential to conduct systematic quantitative and qualitative analysis of human movement in clinical settings.

Prerequisite(s): Undergraduate courses in biomechanics, physics, and functional anatomy or permission of instructor.**KINS 7235 Instrumentation and Techniques in Biochemics****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Provides students with theoretical knowledge and skills for the biomechanical analysis of movement.

Prerequisite(s): A minimum grade of "C" in an undergraduate class in biomechanics, algebra, trigonometry, or permission of instructor.**KINS 7236 Cardiopulmonary Pathophysiology and ECG Interpretation****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the pathophysiology, epidemiology and rehabilitation from the effects of cardiovascular and respiratory disease. Students will learn electrocardiograph interpretation and become familiar with exercise prescriptions for persons with cardiovascular and respiratory disease.

Prerequisite(s): A minimum grade of "C" in KINS 7230 or KINS 7232 or Permission of instructor.**KINS 7237 Exercise and Special Populations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the various physiological processes as they are affected by pregnancy, maturation and aging, and how these changes alter a persons response to, and ability to participate in, exercise.

Prerequisite(s): A minimum grade of "C" in KINS 7230 or permission of instructor.**KINS 7238 Human Performance and Nutrition****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the interaction between nutrition and physical activity, including exercise and athletic performance. Topics will include the latest research on nutrients and ergogenic aids.

Prerequisite(s): Undergraduate course in exercise physiology or permission of instructor.**KINS 7239 Clinical Exercise Physiology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Prepares the student to supervise and direct exercise for the management and rehabilitation of clinical cardiovascular, pulmonary, renal, and metabolic disease.

Prerequisite(s): A minimum grade of "C" in an undergraduate course in exercise physiology or permission of instructor.**KINS 7310 Introduction to Clinical Instruction****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course introduces the newly certified athletic trainer to the clinical instructor role in an athletic training clinical setting. Content includes; learning and instruction styles, educational competencies, legal and ethical behaviors, instructional skills of mentoring, supervision, administration, evaluation and assessment of the undergraduate athletic training student in the clinical setting.

KINS 7330 Clinical Teaching Skills in Athletic Training**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Exposes the student to knowledge and skills of teaching clinical education programs in athletic training. Students will be exposed to the teaching theories and schema as they relate to clinical education in athletic training.

Prerequisite(s): Permission of instructor.**KINS 7333 Advanced Evaluation Skills in Athletic Training****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the advancement of entry level knowledge and skills related to the evaluation of musculoskeletal related injury. Students will be exposed to both theoretical framework and psychomotor aspects of evaluation skills.

Prerequisite(s): Permission of instructor.

KINS 7334 Advanced Rehabilitation Skills in Athletic Training
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on the advancement of entry level knowledge and skills related to the rehabilitation of musculoskeletal related injury. Students will be exposed to both theoretical framework and psychomotor aspects of rehabilitation skills.

Prerequisite(s): Permission of instructor.

KINS 7335 Medical Aspects in Athletic Training
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to enhance the student's knowledge of pathophysiology, clinical presentation, and diagnostic tests of common general medical conditions observed in physically active individuals. Content of the course will cover the following categories/systems: cardiovascular, hematological, pulmonary, ENT, renal, gastrointestinal, hepatology and immunology.

KINS 7336 Current Issues in Athletic Training
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An advanced course that focuses on current issues and/or special topics of interest to athletic training clinicians.

Prerequisite(s): Permission of instructor.

KINS 7337 Macronutrient Metabolism in Sports Nutrition
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course considers macronutrient metabolism in sports nutrition at an advanced level with respect to the metabolism, function, and requirements of macronutrients for physical activity.

Prerequisite(s): A minimum grade of "C" in KINS 7238.

KINS 7338 Micronutrient Metabolism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course considers micronutrient metabolism in sports nutrition at an advanced level with respect to the metabolism, function, and requirements of micronutrients for physical activity.

Prerequisite(s): A minimum grade of "C" in KINS 7337 and acceptance into the Georgia Southern University Dietetic internship.

KINS 7339 Energy Balance for Weight Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course analyzes the importance of energy balance in weight management as well as investigates genetic, metabolic, environmental factors that contribute to overweight and obesity. Physiological and psychological consequences of overweight and obesity as well as the roles of diet, behavior, and exercise in its prevention and treatment will be discussed. Special emphasis will be placed on the application of weight management theory to the development, presentation, and analysis of weight loss and weight maintenance protocols.

Prerequisite(s): A minimum grade of "C" in KINS 7238 and acceptance into the Georgia Southern University Dietetic internship.

KINS 7430 Administrative Issues in Coaching
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides the student with the opportunity to study philosophy, principles and procedures in administering an athletic team or program.

KINS 7431 Applied Sport Physiology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on the study of exercise physiology principles applied to developing training and conditioning programs for enhancing health-related fitness and performance.

Prerequisite(s): Undergraduate course in exercise physiology or permission of instructor.

KINS 7432 Applied Sport Biomechanics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides the student with an in-depth study of the internal and external forces acting on the human body and the effects produced by these forces.

Prerequisite(s): Undergraduate courses in biomechanics, physics, and functional anatomy or permission of instructor.

KINS 7433 Prevention, Recognition and Care of Athletic Injuries
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on the study of advanced knowledge in the concepts, practices, and procedures in the prevention, recognition and care of athletic injury and illness.

Prerequisite(s): Undergraduate courses in anatomy, physiology, and exercise physiology or permission of instructor.

KINS 7434 Current Issues in Coaching
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides the student with an overview of the skills, techniques and knowledge involved in becoming a coach, focusing on current issues affecting the coaching profession.

KINS 7435 Physical Educ Meas/Eval
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**KINS 7436 Phys Activ Prog Sr Adults**
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**KINS 7437 Analysis of Teaching Physical Education**
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines practices of effective teaching techniques and their relationship to learning. Provides the student with an understanding of opportunities to practice effective teaching strategies and skills.

KINS 7438 Motor Behavior
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Presents the major theoretical frameworks for acquisition of motor skill. Emphasis is given to the understanding of concepts of motor development, motor control, motor learning and the implications for pedagogy.

Prerequisite(s): Undergraduate course in motor behavior or permission of instructor.

KINS 7439 History/Philosophy of PE
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**KINS 7530 Psychology of Sport and Exercise Performance**
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the psychological factors that may lead to peak performances in exercise and sport. Students will be introduced to the physical, mental, and emotional variables related to the readiness states of this ideal performance condition. Research and interventions associated with the common qualities of peak performance will be discussed.

Prerequisite(s): Undergraduate course in sport psychology or permission of instructor.

KINS 7531 Team Dynamics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides the student with an understanding of the influence of teams/groups within exercise and sport upon the individual performer, as well as, the influence of individuals upon teams/groups. Based upon the science/practice model, thus theory, research and application within team/group dynamics. The assignments are structured to give students experience with working in teams/groups.

Prerequisite(s): Undergraduate course in sport psychology or permission of instructor.

KINS 7533 Sport and Exercise Psychology Interventions
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides an introduction to the application of exercise and sport psychology intervention strategies to enhance performance. Students will participate in various individual-focused performance enhancement training procedures and produce a personalized performance enhancement manual.

Prerequisite(s): A minimum grade of "C" in KINS 7530 or permission of instructor.

KINS 7534 Current Issues in Sport and Exercise Psychology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides student with an in-depth examination of special areas, current topics, and relevant issues in the field of sport and exercise psychology.

KINS 7535 Fitness and Wellness Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The purpose of this course is to provide the teacher with current theories and knowledge regarding fitness and wellness education in P-12 Physical Education. The course will additionally provide the teacher opportunities to design and evaluate fitness and wellness education programs.

KINS 7536 Assessment and Technology in Physical Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The purpose of this course is to develop skills and knowledge necessary to effectively assess student learning in P-12 Physical Education. The course will additionally provide an overview of the various types of technology that can be utilized in teaching and assessing physical education. The course includes personal computer use in creating materials to enhance instruction and aid in assessment. Also included are other technologies, such as personal digital assistants (PDA), digital cameras/camcorders, various physical education software and Internet options.

KINS 7537 Evaluation and Rehabilitation of the Lumbar Spine
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides the student an opportunity for advanced study of lumbar pathology, assessment, and rehabilitation. Students will be exposed to both theoretical framework as well as psychomotor aspects of assessment and rehabilitation of the lumbar spine.

KINS 7539 Health and Exercise Psychology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The purpose of KINS 7539 is to learn exercise behavior change strategies and provide knowledge and skills necessary to improve health and physical activity adherence for both individuals and groups. This course offers an applied inquiry into individual behaviors and lifestyles that affect physical and mental health from a health promotion, exercise science, and psychological perspective.

Prerequisite(s): A minimum grade of "C" in KINS 7530 and KINS 7533.

KINS 7590 Action Research in Physical Education
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

The purpose of this course is to develop the skills and knowledge necessary to effectively conduct research in P-12 Physical Education to assess effective teaching skills.

KINS 7630 Seminar in Kinesiology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides the student with an in-depth literature review and discussion of contemporary topics in kinesiology.

Prerequisite(s): A minimum grade of "C" in KINS 6130 or KINS 6131.

KINS 7637 Health and Physical Education Seminar
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is intended to provide MAT health and physical education majors with a colloquium in which to discuss job search strategies, trends and current issues in the profession, certification issues in education, student teaching responsibilities, and advocacy strategies for promoting the profession. This course is taken simultaneously with the student teaching experience.

Prerequisite(s): A minimum grade of "C" in KINS 7735 and admission to MAT in Health and Physical Education program.

Corequisite(s): ESED 6799.

KINS 7730 Practicum in Coaching
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Provides the student with coaching experiences in planning, teaching skills, conducting practice sessions, organizing game situations and analysis, scouting and structuring off-season programming.

Prerequisite(s): Permission of instructor.

KINS 7731 Clinical Practicum for Teaching Athletic Training Skills
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to practice knowledge and skills of teaching clinical skills in athletic training. Students will be placed in clinical environments and will assist in the teaching of clinical athletic training skills.

Prerequisite(s): A minimum grade of "C" in KINS 7330 or Permission of instructor.

KINS 7732 Clinical Practicum for Evaluating Athletic Training Skills
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Allows the student to practice knowledge and skills of evaluating clinical skills in athletic training. Students will be placed in clinical environments and will assist with the supervision and evaluation of the application of athletic training skills.

Prerequisite(s): A minimum grade of "C" in KINS 7333 or KINS 7731 or permission of instructor.

KINS 7733 Practicum in Sport and Exercise Psychology
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides the student with the opportunity to practice knowledge and skills of sport and exercise psychology intervention. Students will be involved in supervised, applied environments that allow them to work with a team or individual.

Prerequisite(s): A minimum grade of "C" in KINS 7531 and KINS 7533 or permission of instructor.

KINS 7735 Physical Education Field Experience
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This field experience is designed to provide student with opportunities to observe, actively engage, and teach in a Health and Physical Education setting. Candidates will demonstrate the knowledge and skills required to promote K-12 student learning. The field experience allows candidates to plan, teach lessons and assess student learning in adaptive physical education, elementary physical education, health education, and secondary physical education environments. Candidates must complete field experience in Georgia schools.

Prerequisite(s): A minimum grade of "C" in all of the following: KINS 6134 and KINS 6334 and a minimum grade of "B" in KINS 6234 and Admission to MAT in Health and Physical Education program.

KINS 7799 Internship in Kinesiology
6-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to receive practical experiences in a selected movement related setting.

Prerequisite(s): Permission of graduate program director.

KINS 7898 Project in Athletic Training
1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course will allow the student to understand the research process and expand the student's knowledge within athletic training. The student will work alongside a faculty member with shared research interests.

Prerequisite(s): A minimum grade of "C" in KINS 6130 and KINS 6131.

KINS 7899 Directed Individual Study
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

Prerequisite(s): Permission of instructor.

KINS 7999 Thesis
1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to complete an independent research project. A written and oral defense of the project is required.

Prerequisite(s): Permission of graduate program director.

KINS 8430 Supervision of Instruction in Physical Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Assists the professional educator with acquiring the knowledge and skills essential to improving instruction and instructional programs in physical education. Supervision of novice and experienced physical education teachers will be discussed.

KINS 8431 Curriculum Issues and Trends in Physical Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Identifies theoretical frameworks of curriculum development in relationship to current issues and trends.

KINS 8432 Advanced Teaching Techniques in Health and Physical Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Purpose of this course is to develop and apply skills and knowledge to effectively implement various instructional models in health and physical education.

Prerequisite(s): A minimum grade of "C" in KINS 8431 or permission of instructor.

KINS 8433 Advanced Methods in Secondary Physical Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Purpose of this course is to develop skills and knowledge necessary to effectively design, evaluate, and analyze secondary Physical Education. The course will additionally provide an overview of the various types of supervision skills one needs to evaluate secondary Physical Education.

Prerequisite(s): A minimum grade of "C" in KINS 8432 or permission of instructor.

KINS 8434 Advanced Methods in Elementary Physical Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Purpose of this course is to develop skills and knowledge necessary to effectively design, evaluate, and analyze elementary Physical Education. The course will additionally provide an overview of the various types of supervision skills one needs to evaluate elementary Physical Education.

Prerequisite(s): A minimum grade of "C" in KINS 8432 or permission of instructor.

LEAD Leadership

LEAD 7100 Practical Research in Leadership Settings
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to the concepts and methods of applied research necessary for professionals in leadership settings. Topics will include survey development, interviews, focus groups, experiments, ethnography, and content analysis. Students will construct a research question, review literature, analyze data, and present the results of their analysis.

Cross Listing(s): COMM 7100.

LEAD 7150 Leadership in the Public Arena: From Ideas to Action
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examination of the leadership necessary to move from ideas to action on public issues. Course explores the unique role of the public sector in society and will compare leadership issues in public sector and private sector organizations.

LEAD 7300 Selected Topics in Leadership Studies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Reading, research, practice, and discussion devoted to selected topics in Leadership Studies. Topics may include leadership in literature, creativity and leadership, communication skills and strategic leadership, and leadership in team-based organizations. May be repeated for credit as topics change.

LEAD 7400 Contemporary Issues in Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course moves beyond the study of basic leadership styles and presents students with new and innovative theories to address challenging national and global issues. The class will analyze contemporary topics, discuss supporting and counter arguments, and identify solutions to critical and controversial topics.

LEAD 7700 Professional Communication and Leadership Internship

3 Credit Hours. 1-12 Lecture Hours. 1-12 Lab Hours.

Completion of a structured experiential learning program under the auspices of a site-based and program-approved protocol, applying the principles of professional communication and leadership. Graded on an S or U basis. A minimum institutional GPA of 3.0 is required for enrollment.

LEAD 7800 Independent Study in Professional Communication and Leadership

3 Credit Hours. 1-12 Lecture Hours. 1-12 Lab Hours.

An in-depth, closely supervised, instructor-approved study in student's area of concentration. Student must have skills in independent research and study.

LEAD 7900 Comprehensive Project in Professional Communication and Leadership

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Individually designed project or thesis involving applied research and/or off-campus study in an appropriate setting. Oral presentation of the project is required. The report must be approved to satisfy the requirement for the master's degree. This option is recommended for those seeking to go on to doctoral work. Graded on an S or U basis. Completion of 24 hours of graduate course work required before enrollment.

LING Linguistics

LING 2090 Selected Topics in Writing and Linguistics
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Introduces students to one or more topics preliminary to study of more specialized areas of Writing and Linguistics.

Cross Listing(s): WRIT 2090.

LING 2230 Introduction to Language

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A general introduction to the nature and structure of language and its role in society.

LING 2430 Essential Grammar for Successful Writing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Offers study and analysis of grammar, punctuation, and rules of writing used in both academics and the professions. Challenges students to understand the evolving and situational nature of language, and how its grammatical structures vary and change.

Cross Listing(s): WRIT 2430.

LING 3030 Selected Topics in Linguistics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Offers varied courses in specialized areas of the field of linguistics.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.

LING 3031 Phonology: Introduction to Sound Systems

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth introduction to sounds and sound structures within formal grammar. Relation of basic units of sound structure to major components of linguistics including syntax, morphology, and semantics. Reading and discussion of trends in phonological theory and hands-on development of practical skills including IPA transcription, field techniques, and digital speech analysis.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.

LING 3032 Syntax: Introduction to Structures of Sentences

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A broad introduction to syntactic theory within historical and contemporary approaches to language and linguistic representation. Exploration of data from English and other languages as a systematic structure drawing on syntactic theories. Students learn to construct and evaluate hypotheses about how sentence structure work and build syntax models.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.

LING 3337 Language, Power, Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth investigation of the role of language in national and international power structures. Comparative evaluation of language in social organization of politics, economic policy and law as aggregated by race, culture, ethnicity, class, group ideology and gender. Emphasis on social policy management and minority/linguistic rights.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**LING 3338 Language and Law****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A critical examination of language as a problem-solving device and tool for understanding argument and legal contestation. Delineation of individual rights, institutional authority and legal jurisdiction with emphasis on language and legal power. Analysis of the sociology of language and law within the concepts of human rights and socio-political entitlements.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**Cross Listing(s):** POLS 3338.**LING 3430 Linguistics and Grammar for Teachers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course aims to introduce the pedagogy of English grammar, and is grounded in real pedagogical examples. Through lecture, workshops, and projects about writing, students will develop strategies for teaching grammar and usage in order to effectively teach basic grammatical, mechanical, and usage concepts.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**LING 3520 Revision, Grammar and Culture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores theories of grammar and the recursive nature of writing; offers strategies for revision; surveys the social forces underlying the standardization of writing, including academic writing, and the processes of language change.

Prerequisite(s): A minimum grade of "C" in ENGL 1101 and ENGL 1102.**Cross Listing(s):** WRIT 3520.**LING 3533 Introduction to Language****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A general introduction to the nature and structure of language and its role in society.

LING 3534 Psychology of Language**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction focusing on the psychological mechanisms underlying the acquisition and use of language from cognitive and social psychological perspectives.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 or LING 3533 or LING 3630.**Cross Listing(s):** PSYC 3534.**LING 3630 Language and Linguistic Theory****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Critical overview, examination and evaluation of influential theories in linguistics and their insight on language. Application of basic principles of linguistic theorizing to issues of language structure and understanding.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**LING 4230 Second Language Writing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduce students to current pedagogical and research issues in second language (L2) writing development and instruction.

Prerequisite(s): A minimum grade of "C" in LING 3630.**LING 4231 Corpus Linguistics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the use of corpora and corpus tools for different types of linguistic analysis in the study of language and writing.

Prerequisite(s): A minimum grade of "C" in LING 3630.**LING 4333 Semantics: Introduction to Linguistic Meaning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on language analysis applied to practical problems of communication in contemporary society. Offers systematic examination of how meaning is encoded in words and sentences and how it is shaped by context.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**Cross Listing(s):** COMS 4333.**LING 4430 Computer-Assisted Language Learning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course offers an introduction of computer-assisted language learning (CALL), and provides students with hands-on experience in pedagogical applications of computers, including using and evaluating software and internet resources.

Prerequisite(s): A minimum grade of "C" in LING 3630.**LING 4432 Language Assessment****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course identifies traditions and foundations of instruments and explores their dimensions in the assessment of English language learners and ESL/EFL students. It examines formal and informal assessment tools and practices that are used to support the learning of English language learners in various settings.

Prerequisite(s): A minimum grade of "C" in LING 3630.**LING 4790 Internship in Writing and Linguistics****1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Open to juniors and above. Offered by special arrangement. Off-campus study, work and/or research, jointly supervised by sponsoring institution and staff member. Repeatable up to a maximum of six credit hours.

Six hours credit requires twenty-five hours a week at sponsoring institution, 3 hours credit requires fifteen hours.

Prerequisite(s): A minimum grade of "C" in WRIT 3130 or WRIT 3230 or WRIT 3531 or LING 3630; 2.5 grade point average; supervisory staff member; recommendation of the department head.**Cross Listing(s):** WRIT 4790.**LING 5030 Topics in Linguistics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Seminar in topics of theoretical and applied linguistics. May be repeated for additional credit when topics change.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**Cross Listing(s):** LING 5030G.**LING 5130 Modern English Grammar****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the system of rules of word formation and sentence construction that we unconsciously employ in our daily use of the English language. Undergraduate

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**Cross Listing(s):** LING 5130G, WRIT 5130, WRIT 5130G.**LING 5131 Applied Linguistics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course provides a survey of major areas of applied linguistics including language teaching and learning, first and second language development, language and identity, language in professional contexts, and critical applied linguistics. Students are also expected to learn to use applied linguistics methods such as corpus linguistics and functional linguistics in analyzing and teaching the English language system.

Prerequisite(s): A minimum grade of "C" in LING 3630 or Admission to the Teacher Education Program (TEP) in the College of Education.**Cross Listing(s):** TCLD 4233, TCLD 6233, LING 5131G.**LING 5133 English Grammar for ESL/EFL Teachers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of English grammar geared towards teachers of English to speakers of other languages and applied linguistics.

Prerequisite(s): A grade of "C" or better in ENGL 1102.**Cross Listing(s):** LING 5133G.

LING 5233 Teaching English Internationally
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A course to prepare students to teach English in other countries.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.

Cross Listing(s): LING 5233G.

LING 5340 History of the English Language
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the English language from linguistic, social, and historical perspectives.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.

Cross Listing(s): ENGL 5320, ENGL 5320G, LING 5340G, WRIT 5340, WRIT 5340G.

LING 5440 Early English Literature, Beginning-1485
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

English literature from its beginnings through 1485. Course includes study of medieval phonology, morphology, and syntax. Writers include the Beowulf poet and other Old English authors, early Middle English lyrics, and the major figures of the fourteenth century (the Pearl poet, Chaucer, Langland, Gower). In alternate years, course will be devoted to Chaucer and his context.

Prerequisite(s): ENGL 2100.

Cross Listing(s): LING 5440G.

LING 5530 Sociolinguistics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The principles and methods used to study language as a sociocultural phenomenon. These are examined both from the linguistic viewpoint and the social scientific viewpoint.

Prerequisite(s): A minimum grade of "C" in ANTH 1102 or SOCI 1101.

Cross Listing(s): LING 5530G, WRIT 5530, WRIT 5530G.

LING 5030G Topics in Linguistics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Seminar in topics of theoretical and applied linguistics. May be repeated for additional credit when topics change.

Cross Listing(s): LING 5030.

LING 5130G Modern English Grammar
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the system of rules of word formation and sentence construction that we unconsciously employ in our daily use of the English language. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): LING 5130, WRIT 5130, WRIT 5130G.

LING 5131G Applied Linguistics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course provides a survey of major areas of applied linguistics including language teaching and learning, first and second language development, language and identity, language in professional contexts, and critical applied linguistics. Students are also expected to learn to use applied linguistics methods such as corpus linguistics and functional linguistics in analyzing and teaching the English language system. Graduate students will complete an individual project to demonstrate the depth of their understanding of applied linguistics.

Cross Listing(s): TCLD 4233, TCLD 6233, LING 5131.

LING 5133G English Grammar for ESL/EFL Teachers
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An overview of English grammar geared towards teachers of English to speakers of other languages and applied linguistics. Graduate students will be required to do an extra project to complete the course.

Cross Listing(s): LING 5133.

LING 5233G Teaching English Internationally
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A course to prepare students to teach English in other countries. Graduate students will be required to complete an extra project as part of this course.

Cross Listing(s): LING 5233.

LING 5340G History of the English Language
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the English language from linguistic, social, and historical perspectives. Graduate students will prepare and present a research topic on a class concept and will receive quizzes that are more detailed and cover more complex aspects of linguistics.

Cross Listing(s): WRIT 5340, WRIT 5340G, LING 5340, ENGL 5320, ENGL 5320G.

LING 5440G Early English Lit, Beg-1485
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

English literature from its beginnings through 1485. Course includes study of medieval phonology, morphology, and syntax. Writers include the Beowulf poet and other Old English authors, early Middle English lyrics, and the major figures of the fourteenth century (the Pearl poet, Chaucer, Langland, Gower). In alternate years, course will be devoted to Chaucer and his context.

Cross Listing(s): ENGL 5440G.

LING 5465G Chaucer
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Chaucer's two masterpieces, The Canterbury Tales and Troilus and Criseyde, and minor poetry. Includes in-depth study of Chaucer's culture, context, and language.

LING 5530G Sociolinguistics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The principles and methods used to study language as a sociocultural phenomenon. These are examined both from the linguistic viewpoint and the social scientific viewpoint. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): LING 5530, WRIT 5530, WRIT 5530G.

LING 6131 Teaching ESL/EFL Pronunciation and Speaking
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to professional work with linguistic sounds in applied areas of language study such as Teaching English to Speakers of Other Languages (TESOL) and speech pathology.

LOGT Logistics & Intermodal Transportation

LOGT 2232 Introduction to Supply Chain Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of supply chain management (SCM) by facilitating an understanding of the integrated management of supply and demand within and across organizations. The course facilitates a discourse on how the planning and management of sourcing and procurement; production and manufacturing; and distribution and logistics activities is related to organizational performance management and how technology enables these activities. An understanding of how the coordination resulting from supply chain management enables process and activity collaboration within business functions like finance, marketing, sales, product development, and information systems and across business partners like suppliers, service providers, intermediaries, and customers is provided.

Prerequisite(s): A minimum grade of "C" in MATH 1111.

LOGT 3232 Logistics and Supply Chain Strategy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The purpose of this course is to equip students with a strategic framework for understanding the role of logistics and supply chain management in overall firm success, and initiate students to various analytical tools for solving supply chain problems. Of particular interest are topics such as demand-driven value networks, supply chain competitiveness, strategic fit in supply chains, distribution network design, transportation planning and management, and strategic sourcing.

Prerequisite(s): A minimum grade of "C" in LOGT 2232.

LOGT 4030 Special Topics in Logistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A customized course that allows students to pursue further study in a specific logistics topic at the frontier of an area of research or a contemporary topic related to current real-world events.

Prerequisite(s): A minimum grade of "C" in LOGT 2232 and LOGT 3232.

LOGT 4231 Logistics and Intermodal Transportation Operations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide students with knowledge of the elements necessary to efficiently and effectively plan, implement, manage, and improve market-responsive logistics and supply chain management, in both national and international contexts. Course coverage includes transportation operations by mode (motor carrier, rail, air, and ocean), port operations, modal route and lane analysis, logistics network design and analysis, logistics service design, distribution management, customer (shipper) cost-to-serve analysis, intermodal supply chain operations, and supply chain performance-enabling logistics technology. Emphasis is placed on the application of these logistics and intermodal supply chain principles in practice and their utilization in decision-making that impacts supply chain performance.

Prerequisite(s): A minimum grade of "C" in LOGT 3232.

LOGT 4232 International Supply Chain Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This class examines the role of global supply chain strategy and operations in supporting international trade. This includes strategic development of plan and deliver processes associated with distributing and delivering products and services across international borders. Also covered are issues in management of ocean shipping, import and export processes, and roles of international agents and freight forwarders.

Prerequisite(s): A minimum grade of "C" in LOGT 3232.

LOGT 4233 Logistics Executive in Residence**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A capstone, integrative, case course in logistics and transportation strategy. Students participate in an Executive in Residence program that provides interaction with top-level logistics and transportation executives.

Prerequisite(s): A minimum grade of "C" in LOGT 4231 or LOGT 4232.

LOGT 4234 Analytical Tools in Logistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an examination of the principle analytical tools and methods used in logistics and transportation, including the application of analytical tools to strategic, tactical, and operational supply chain problems. Students will be required to demonstrate the ability to understand the fundamentals of the field and to stretch this understanding to comprehend the intricate processes needed by logistical and transportation managers.

Prerequisite(s): A minimum grade of "C" in LOGT 2232 and LOGT 3232.

LOGT 4263 Logistics and Intermodal Transportation Capstone**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Intermodal transportation requires managing workers, suppliers, customer relationships, and risk. Using directed readings, cases, and company projects students will examine issues related to: lane management; workforce, facility and fleet management; sub-contracting; and capital investment.

Prerequisite(s): A minimum grade of "C" in all of the following: LOGT 4231 and LOGT 4232.

LOGT 4790 Internship in Logistics**3-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised work-study program in selected logistics and intermodal transportation companies. Students will be permitted to undertake internships only after review of academic qualifications and with firms per-approval by the faculty.

Prerequisite(s): LOGT 2232 or LOGT 3232.

LOGT 4830 Special Problems in Logistics**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A senior level course that allows LOGT majors to pursue an intensive study of a specific topic or emerging area of transportation and logistics to be developed by the instructor.

Prerequisite(s): LOGT 2232 and LOGT 3232.

LOGT 4890 Directed Study in Logistics and Intermodal Transportation**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent study and research in selected areas of Logistics and Intermodal Transportation under supervision of a member of the LOGT faculty.

LOGT 7432 Logistics Fundamentals and Strategy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Develops an understanding of logistics systems. The class will apply a managerial focus approach to integrating the numerous logistical activities in the supply chain including materials management, physical distribution, third party logistics, transportation, and other topics. The class will stress practical applications through a case approach and a logistics simulation.

Prerequisite(s): Prior or concurrent enrollment with a minimum grade of "C" in MBA 7630.

LSCM Logistics Supply Chain Mg

LSCM 7220 Analytical Methods in Logistics and Supply Chain Management**2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A primer in mathematical operations to support data analysis for logistics and supply chain decision-making.

Prerequisite(s): Admission to the MS-LSCM program, or one of the following graduate certificate programs: Logistics and Transportation or Operations and Supply Management.

LSCM 7340 Fundamentals of Supply Chain Management**4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Covers basics of matching supply with market-driven demand for goods and services. A variety of SCM topics are covered such as: operating environments, supply chain business fundamentals, forecasting, process and capacity management, inventory control and sourcing and distribution strategies.

Prerequisite(s): A minimum grade of "C" in LSCM 7220; and admission to the MS-LSCM program, or one of the following graduate certificate programs: Logistics and Transportation or Operations and Supply Management.

LSCM 7342 Operations and Supply Management Excellence**4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Utilizes problem-based learning to explore various operations and supply management activities such as: sourcing strategy and leadership, supply cost management, purchasing, negotiation, inventory management and quality assurance.

Prerequisite(s): A minimum grade of "C" in LSCM 7220; and admission to the MS-LSCM program, or one of the following graduate certificate programs: Logistics and Transportation or Operations and Supply Management.

LSCM 7344 Lean Six Sigma and Process Improvement**4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Focuses on process improvement with coverage of lean and six sigma analytical and performance management approaches. Analytic techniques for documenting and improving production operations and supply chain processes will be applied across various quality control and quality management frameworks.

Prerequisite(s): A minimum grade of "C" in LSCM 7220; and admission to the MS-LSCM program, or one of the following graduate certificate programs: Logistics and Transportation or Operations and Supply Management.

LSCM 7440 Logistics, Transportation and Distribution**4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides an overview of logistics activities in freight transportation and distribution. Fundamentals of transport modes, common terminology, frameworks, technologies and problems pertaining to transportation and distribution systems for products are emphasized and studied.

Prerequisite(s): A minimum grade of "C" in LSCM 7220; and admission to the MS-LSCM program, or one of the following graduate certificate programs: Logistics and Transportation or Operations and Supply Management.

LSCM 7442 International Logistics and Intermodal Transportation**4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Studies international logistics business processes to enable competitive global supply chain performance. International trade flows and challenges of intermodal freight transportation are emphasized and studied.

Prerequisite(s): A minimum grade of "C" in LSCM 7220; and admission to the MS-LSCM program, or one of the following graduate certificate programs: Logistics and Transportation or Operations and Supply Management.

LSCM 7444 Logistics and Distribution Operations**4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Utilizes problem-based learning to efficiently and effectively improve market-responsive transportation, warehousing and distribution operations. Course coverage includes multi-modal transportation operations, port operations, distribution management, and supply chain performance-enabling logistics technology.

Prerequisite(s): A minimum grade of "C" in LSCM 7220; and admission to the MS-LSCM program, or one of the following graduate certificate programs: Logistics and Transportation or Operations and Supply Management.

LSCM 7890 Directed Study in Logistics and SCM**1-4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Directed study under faculty supervision.

Prerequisite(s): Admission to the MS-LSCM program and permission of MS-LSCM Director.

LSCM 9030 Special Topics in Supply Chain Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores important Supply Chain Management topics or methodologies not covered to any significant extent in other courses. The topic(s) to be covered will be announced each time the course is offered.

LSCM 9131 Logistics Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Key topics and concepts of business logistics are surveyed through readings, discussions, critiques and presentations of established academic articles in logistics and supply chain management.

LSCM 9331 Analysis of Secondary Data for Supply Chain Management Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce students to the process of utilizing secondary data sources in Supply Chain Management research. Topics include: primary differences between utilizing primary and secondary data sources for Supply Chain Management research; conceptualization of research models, including proxy variable formation; identification of potential data sources; manipulation of large datasets and a variety of methodological approaches commonly utilized with secondary data.

LSCM 9630 Supply Chain Management Theories**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide a survey of key supply chain related theories. Particular emphasis will be placed on understanding the scholarly foundations and perspectives of supply chain management theory and its application in supply chain research. Among the theories covered are Transaction Cost Economics, Resource Based View, Contingency Theory, Agency Theory, Social Exchange Theory, Social Network Theory, and Systems Theory.

LSCM 9631 Research Processes and Philosophies in Supply Chain Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Foundational and emerging supply management research topics will be reviewed, presented, discussed and critiqued. Scope will span the evolution of supply management and its role in the firm, and then moves into critical topics such as buyer-supplier relationships, sourcing strategies, and emerging topics.

LSCM 9632 Operations Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Current and emerging operations management research topics will be reviewed, presented, discussed and critiqued. In the process, students will be exposed to a number of seminal articles selected based on evidence of a novel approach to either domain knowledge and/or research methods. This course will help develop skill sets in conducting independent research, critiquing articles, developing new research ideas and implementing a research study ready to be submitted to a journal.

LSCM 9633 Research Trends in Logistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Trending and emerging topics in business logistics research are surveyed through readings, discussions, critiques and presentations of academic articles in logistics and supply chain management.

LSCM 9634 Supply Chain Management Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores conceptual frameworks and inter-organizational challenges studied in extant supply chain management literature. Frameworks covered will include those of the Global Supply Chain Forum, the Demand and Supply Integration Framework, the Supply Chain Operating Reference Model, the Value Chain. Representative Inter-organizational issues including collaboration, coordination, integration, risk, disruptions flexibility and resilience, technology adoption, sustainability, channel management, and the bull-whip effect.

LSCM 9635 Supply Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Foundational and emerging supply management research topics will be reviewed, presented, discussed and critiqued. Scope will span the evolution of supply management and its role in the firm, and then moves into critical topics such as buyer-supplier relationships, sourcing strategies, and emerging topics.

LSCM 9801 Comprehensive Exam Preparation**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

An independent study unique to each student to aid the student's preparation for their Comprehensive Exams.

LSCM 9999 Dissertation**1-18 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A directed research project unique to each student to develop original research that will constitute a dissertation proposal and subsequent final dissertation to be defended.

LSTD Legal Studies

LSTD 2106 Legal Environment of Business**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to give students a working knowledge of important legal concepts that affect the rights and responsibilities of American business persons and organizations. The course covers legal topics such as Constitutional law, torts, contracts, agency, and employment law matters. Students will develop an understanding and appreciation for the interrelationship between ethics, law, and business decision-making, as well as an understanding of the foundation of the legal system as it relates to business, including knowledge of the various court systems, phases of litigation, and alternative dispute resolution processes.

Prerequisite(s): A minimum grade of "C" in ENGL 1101 or WRIT 1101.

LSTD 3130 International Trade Regulation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course presents fundamentals of international trade operations, providing students with the experience of regulatory compliance while conducting the business of exporting.

LSTD 3230 Building Construction Law
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the legal concepts, statutes and regulations governing the building and construction industry, including the legal framework of contract law, construction financing, property rights zoning, lien, bonding, liability, competitive bidding, dispute resolution theories and relevant/ current development of government regulation of the building construction industry.

LSTD 3630 White Collar Crime
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Fraud-fighting professionals must understand the laws governing a fraud investigation as it moves through the U.S. legal system. This course examines the US criminal justice system along with its response to the escalating incidence of white-collar crime.

Prerequisite(s): Junior Status.

LSTD 4334 Employment Law and Legislative Compliance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An overview of the current issues in the work environment related to the job selection process, equal employment opportunity, and the rights of workers in the market.

Prerequisite(s): A minimum grade of "C" in MGNT 3130.

Cross Listing(s): MGNT 4334.

LSTD 4633 Forensic Interviews and Interrogations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the distinctions between interviews and interrogations and how each can be used in resolving criminal or civil allegations. Other topics to be explored include the verbal and nonverbal cues indicating truth or deception, preparation of interview memoranda, and obtaining and preparing legally-admissible admission statements.

Prerequisite(s): Completion of a minimum of 45 semester hours.

LSTD 4830 Special Problems in Legal Studies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A customized course that is under the direction of a faculty sponsor. The course is designed to offer students an opportunity to pursue studies at a level or on topics not covered in scheduled courses. The scope and nature of the material covered is determined in consultation with faculty sponsor.

LSTD 4890 Directed Study in Legal Studies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed for independent study and research in selected areas of legal studies under faculty supervision.

LSTD 7230 Law and Ethics for Accountants
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to legal and ethical issues involving primary legal authorities in the contexts of commercial law, employment, government regulation, and business ethics. Emphasis is on recognition of these issues to enhance professionalism for business administration.

Prerequisite(s): A minimum grade of "C" in LSTD 2106 and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

MAED Math Education

MAED 7910L Topics in Elem Math Lab
0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.

MATH Mathematics

MATH 0997 Support for Quantitative Reasoning
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

This Learning Support course provides corequisite support in mathematics for students enrolled in MATH 1001 – Quantitative Reasoning. Topics will parallel topics being studied in MATH 1001 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1001. Taken with MATH 1001, topics to be covered will include logic, basic probability, data analysis and modeling from data.

Corequisite(s): MATH 1001.

MATH 0998 Support for Mathematical Modeling
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

This Learning Support course provides corequisite support in mathematics for students enrolled in MATH 1101 – Introduction to Mathematical Modeling. Topics will parallel topics being studied in MATH 1101 and the course will provide support for essential quantitative skills needed to be successful in MATH 1101. Taken with MATH 1101, this course is an introduction to mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. Emphasis is on the use of elementary functions to investigate and analyze applied problems and questions, supported by the use of appropriate technology, and on effective communication of quantitative concepts and results.

Corequisite(s): MATH 1101.

MATH 0999 Support for College Algebra
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

This Learning Support course provides corequisite support in mathematics for students enrolled in MATH 1111 – College Algebra. Topics will parallel topics being studied in MATH 1111 and the course will provide support for the essential quantitative skills needed to be successful in MATH 1111. Taken with MATH 1111, this course provides an in-depth study of the properties of algebraic, exponential and logarithmic functions as needed for calculus. Emphasis is on using algebraic and graphical techniques for solving problems involving linear, quadratic, piece-wise defined, rational, polynomial, exponential and logarithmic functions.

Corequisite(s): MATH 1111.

MATH 1001 Quantitative Reasoning
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Emphasis on processing information via models by conducting assumption validity, applicability and suitability checks, executing appropriate calculations to do forecasts and arrive at logical decisions. Will rely on examples to illustrate use of mathematics in real world situations. This course is an alternative in Area A of the Core Curriculum and is not intended to supply sufficient algebraic background for students who intend to take precalculus or the calculus sequences for mathematics and science majors.

MATH 1001M Quant Skill & Reasoning by WC
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

MATH 1101 Introduction to Mathematical Modeling
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Mathematical modeling using graphical, numerical, symbolic, and verbal techniques to describe and explore real-world data and phenomena. The investigation and analysis of applied problems and questions, and effective communication of quantitative concepts and results. Topics include linear, quadratic, polynomial, exponential and logarithmic models of real-world phenomena.

Prerequisite(s): Two years of high school algebra or equivalent.

MATH 1111 College Algebra**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an in-depth study of the properties of algebraic, exponential and logarithmic functions as needed for calculus. Emphasis is on using algebraic and graphical techniques for solving problems involving linear, quadratic, piecewise defined, rational, polynomial, exponential, and logarithmic functions.

Prerequisite(s): Two years of high school algebra or equivalent.

MATH 1112 College Trigonometry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an in-depth study of the properties of trigonometric functions and their inverses. Topics include circular functions, special angles, solutions of triangles, trigonometric identities and equations, graphs of trigonometric functions, inverse trigonometric functions and their graphs, Law of Sines, Law of Cosines, and vectors.

Prerequisite(s): A minimum grade of "C" in MATH 1111.

MATH 1113 Pre-Calculus Mathematics**3,4 Credit Hours. 3,4 Lecture Hours. 0 Lab Hours.**

This course is an intensive study of the basic functions needed for the study of calculus. Topics include algebraic, functional, and graphical techniques for solving problems with algebraic, exponential, logarithmic, and trigonometric functions and their inverses.

Prerequisite(s): MATH 1111 with a minimum grade of "C".

MATH 1113M Pre-Calculus Math by WC**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Designed to prepare students for calculus, physics, and related technical subjects. Topics include an intensive study of algebraic, trigonometric, logarithmic, and exponential functions accompanied by analytical geometry.

MATH 1232 Survey of Calculus**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers the fundamental elements of differential and integral calculus of algebraic, logarithmic and exponential functions. Topics include a brief review of algebraic principles, limits, derivatives and integrals. Appropriate technology will be incorporated throughout the course.

Prerequisite(s): A minimum grade of "C" in MATH 1101 or MATH 1111 or MATH 1113 or MATH 1112.

MATH 1401 Introduction to Statistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course is a course in basic statistics. Topics include descriptive statistics, probability, distributions, hypothesis testing, inferences, correlation, and regression.

Prerequisite(s): A minimum grade of "C" in MATH 1101 or MATH 1111.

MATH 1441 Calculus I**4 Credit Hours. 0,4 Lecture Hours. 0,1 Lab Hours.**

Functions and limits; the derivative and its applications, antidifferentiation; the definite integral and applications; exponential and logarithmic functions.

Prerequisite(s): A minimum grade of "C" in MATH 1112 or MATH 1113.

MATH 1501 Calculus I**4 Credit Hours. 0,4 Lecture Hours. 0,1 Lab Hours.**

Topics to include functions, limits, continuity, the derivative, antidifferentiation, the definite integral, and applications.

Prerequisite(s): MATH 1112 or MATH 1113.

MATH 2008 Foundations of Numbers and Operations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an Area F introductory course for early childhood education majors. This course will emphasize the understanding and use of the major concepts of numbers and operations. As a general theme, strategies of problem solving will be used and discussed in the context of various topics. This course is also part of the program of study for middle grade majors.

Prerequisite(s): A minimum grade of "C" in MATH 1101 or MATH 1111.

MATH 2010 Problem Solving for K-8 Teachers**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will learn, integrate and apply a variety of problem solving strategies to a range of mathematical problems from algebra, pre-calculus, and calculus. Students will learn, integrate and apply appropriate technology as a tool in the problem solving process. Designed for early childhood and middle grade majors.

Prerequisite(s): A minimum grade of "C" in MATH 1112 and MATH 3032.

MATH 2130 Discrete Mathematics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers important discrete mathematical objects such as sets, relations and functions, graphs and trees. An introduction to mathematical logic and reasoning, and the concept of an algorithm and its complexity will be covered.

Prerequisite(s): Prior or concurrent enrollment in MATH 1232, or a minimum grade of "C" in MATH 1111 or MATH 1112 or MATH 1113 or MATH 1441 or MATH 2242.

MATH 2160 Linear Algebra**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Linear systems and matrices; vector spaces, linear independence, rank of a matrix; linear transformations; determinants; introduction to eigenvalues and eigenvectors; diagonalization; applications.

Prerequisite(s): A minimum grade of "C" in MATH 2242.

MATH 2242 Calculus II**4 Credit Hours. 4 Lecture Hours. 1 Lab Hour.**

Techniques and applications of integration; transcendental functions; indeterminate forms; improper integrals; parametric equations and polar coordinates; sequences and series; Taylor's theorem.

Prerequisite(s): A minimum grade of "C" in either MATH 1441 or MATH 1501.

MATH 2243 Calculus III**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Vectors, curves, and surfaces; partial differentiation; multiple integrals; curve integrals and surface integrals; the theorem of Green and Stokes; the Divergence Theorem; introduction to differential equations.

Prerequisite(s): A minimum grade of "C" in MATH 2242.

MATH 2332 Mathematical Structures**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics include mathematical logic, methods of proofs, induction, set theory, relations, and functions. The course is primarily intended for mathematics and mathematics education majors as a first course in studying proof techniques and foundations of mathematics.

Prerequisite(s): A minimum grade of "C" in MATH 2242.

MATH 2430 Computing Techniques**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Fundamentals of numerical methods and development of programming techniques with implementation in the computer solution of problems in engineering.

Prerequisite(s): CSCI 1301 or ENGR 1731 or MATH 2242 or PHYS 2211K.

Corequisite(s): MATH 3230.

MATH 3032 Foundations of Data Analysis and Geometry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of basic probability, statistics and geometry, including two and three dimensional shapes and triangle congruence similarity. For Early Childhood and Middle Grade majors only.

Prerequisite(s): A minimum grade of "C" in MATH 2008.**MATH 3230 Ordinary Differential Equations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of differential equations involving functions of one variable. Topics include: linear and non-linear differential equations, initial value problems, existence and uniqueness theorems, systems of differential equations, stability, computational methods and Laplace transform methods.

Prerequisite(s): A minimum grade of "C" in MATH 2242.**MATH 3337 Probability****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to probability, random variables and discrete and continuous probability distributions for students in mathematics, engineering and the sciences including the social sciences and management science. The content of this course will also prepare students for the Society of Actuaries Exam P (Probability).

Prerequisite(s): A minimum grade of "C" in MATH 2242.**MATH 3360 Modern Geometry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An axiomatic approach to the fundamental ideas of Euclidean geometry, including congruence, similarities, circles, elementary transformations and constructions. An examination of non-Euclidean geometries.

Prerequisite(s): A minimum grade of "C" in MATH 2332.**MATH 3932 Math Reasoning/Representations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A laboratory approach to the study of mathematics. Topics include methods of reasoning and proof; algebraic structures; conceptual consideration of functions; regression; recursion; proportional reasoning; analytic and transformational geometry; and rational, integer, and real number arithmetic.

Prerequisite(s): MATH 1441.**MATH 4000 Putnam Seminar****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

A variety of mathematical problems, considered with the aim of developing problem solving techniques.

Prerequisite(s): MATH 2243.**MATH 4200 Actuarial Science Seminar****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of topics related to careers in actuarial science and accreditation in professional societies. Topics will vary but include use of allowable technology, probability tables, and test-taking strategies for actuarial exams.

Prerequisite(s): A minimum grade of "C" in MATH 3337 or MATH 5441.**MATH 4400 Operations Research Seminar****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

A study of topics related to a career in operations research.

Prerequisite(s): MATH 5330.**MATH 4630 Game Theory****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to introduce students to the foundations of game theory and its applications. Students will use reasoning skills to deal with concepts of games, networks, economic development, and warfare.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 2130 or MATH 2332.**MATH 4825 Honors Research****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Independent research under the guidance of a faculty member in the Department of Mathematical Sciences for mathematics majors in the University Honors Program. Students must complete four credit hours over two semesters to complete the honors requirements.

Prerequisite(s): Requires Junior status in Mathematics Program and good standing in the University Honors Program.**MATH 4890 Directed Study in Mathematics****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Directed study under faculty supervision. Well prepared math majors may be permitted to enroll in an independent study upon the recommendation of a Mathematics faculty member.

Prerequisite(s): Permission of instructor and Department Chair required.**MATH 4920 Undergraduate Seminar****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

A specialized study of various topics in mathematics with the intention to engage students in independent reading, writing and presentation of these topics under the supervision of mathematics faculty.

Prerequisite(s): A minimum grade of "C" in MATH 2332 and MATH 2243.**MATH 4929 Honors Thesis****2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Written and oral presentation of results of research conducted in MATH 4825 (Honors Research). Honors thesis must follow the guidelines adopted by the Honors College. This course is required for mathematics majors in the Honors College.

Prerequisite(s): Junior level or above and good standing in the Honors College.**MATH 4930 Senior Research Project****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Main objective of this course is to engage senior undergraduate students in mathematical, statistical or computer science research and writing. Students will select advisors to work with on their projects. At least one oral presentation on the progress of their research during the semester is required. Also, a final written report on the project as well as a final oral presentation is required.

Prerequisite(s): Students must have at least 15 credit hours of upper level mathematics, statistics and/or computer science.**MATH 4961 Internship in Mathematics****3 Credit Hours. 0-1 Lecture Hours. 6-9 Lab Hours.**

Experience in a variety of mathematical applications suited to the educational and professional aspirations of the student, under the direction of faculty and appropriate off-campus supervisory personnel. Open to transient students only with the permission of the department chair.

MATH 4962 Internship in Mathematics**3 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

Experience in a variety of mathematical applications suited to the educational and professional aspirations of the student, under the direction of faculty and appropriate off-campus supervisory personnel. Open to transient students only with the permission of the department chair.

MATH 4963 Internship in Mathematics**3 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

Experience in a variety of mathematical applications suited to the educational and professional aspirations of the student, under the direction of faculty and appropriate off-campus supervisory personnel. Open to transient students only with the permission of the department chair.

MATH 5090 Selected Topics in Mathematics**1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

Specialized study in a selected area of Mathematics. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Permission of instructor required.**Cross Listing(s):** MATH 5090G.

MATH 5130 Statistics and Probability for K-8 Teachers**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth study of topics in statistics, such as sampling and data analysis, and probability, such as counting methods, odds, and expected value. For Early Childhood and Middle Grade majors only.

Prerequisite(s): A minimum grade of "C" in MATH 3032.**Cross Listing(s):** MATH 5130G.**MATH 5135 Algebraic Connections for K-8 Teachers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The evolution of algebraic concepts through the curriculum will be followed by how algebra is related to other areas of mathematics and real-world applications. For Early Childhood and Middle Grade majors only.

Prerequisite(s): A minimum grade of "C" in MATH 3032.**Cross Listing(s):** MATH 5135G.**MATH 5136 History of Mathematics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the historical development of mathematics. The emphasis will be on mathematical concepts, problem solving, and pedagogy from a historical perspective.

Prerequisite(s): A minimum grade of "C" in MATH 2242.**Cross Listing(s):** MATH 5136G.**MATH 5137 Geometry for K-8 Teachers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of the study of geometry from MATH 3032. Focus will be on two and three dimensional geometry. Motion geometry and tessellations will also be covered. For Early Childhood and Middle Grade majors only.

Prerequisite(s): A minimum grade of "C" in MATH 3032.**Cross Listing(s):** MATH 5137G.**MATH 5230 Advanced Geometry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics from Euclidean and Non-Euclidean Geometry. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in MATH 3360 or one year of teaching high school mathematics.**Cross Listing(s):** MATH 5230G.**MATH 5234 Number Theory****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the principal ideas of elementary number theory: Divisibility, congruencies, linear Diophantine Equations, Fermat's Theorem, Euler's Theorem, Pythagorean triples and the distribution of primes. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in MATH 2332.**Cross Listing(s):** MATH 5234G.**MATH 5236 Patterns of Problem Solving****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of patterns involved in solving problems. Particular attention is paid to Polya's heuristics and his characterization of the problem solving process. The student will also solve many problems. The application of these techniques by mathematics teachers will be stressed.

Prerequisite(s): A minimum grade of "C" in MATH 1441 or permission of instructor.**Cross Listing(s):** MATH 5236G.**MATH 5251 Combinatorics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Counting principles such as permutations, combinations, derangements, pigeonhole, and inclusion/exclusion; partitions; generating functions: recurrence relations; applications from graph theory and applied algebra.

Prerequisite(s): Completion of MATH 2332.**Cross Listing(s):** MATH 5251G.**MATH 5330 Operations Research****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to basic deterministic and probabilistic operations research models of decision problems. Mathematical methods of optimization for these models will be analyzed both analytically and numerically.

Prerequisite(s): A minimum grade of "C" in MATH 3337.**Cross Listing(s):** MATH 5330G.**MATH 5331 Analysis I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides a transition from calculus to real analysis. Emphasis will be placed on understanding and constructing mathematical proofs. Rigorous development of fundamental concepts in analysis, including topics such as relations, functions, limits of functions, cardinality, topology of the reals, completeness axiom, compact sets, sequences, subsequence, continuity and differentiability.

Prerequisite(s): A minimum grade of "C" in MATH 2243 and a minimum grade of "C" in MATH 2332.**Cross Listing(s):** MATH 5331G.**MATH 5332 Analysis II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of Analysis I, including topics such as Riemann integration, infinite series, sequences and series of functions, metric spaces, and normed spaces.

Prerequisite(s): A minimum grade of "C" in MATH 5331.**Cross Listing(s):** MATH 5332G.**MATH 5333 Modern Algebra I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the fundamental algebraic structures: groups, rings and fields. Topics covered include: binary operations, groups (permutation groups, subgroups, cyclic groups, group homomorphisms, factor groups), rings (integral domains, ring homomorphisms) and fields. The historical and mathematical connections to the secondary mathematics curriculum will be incorporated as appropriate.

Prerequisite(s): A minimum grade of "C" in MATH 2332.**Cross Listing(s):** MATH 5333G.**MATH 5334 Modern Algebra II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of the study of the fundamental algebraic structures. Topics to be covered include: isomorphism of groups, rings, fields, a deeper study of quotient structures and the isomorphism theorems, field of quotients, factorization of polynomials over a field, arithmetic properties of rings of polynomials over fields, extension fields, algebraic extensions, geometric constructions and the classic problems.

Prerequisite(s): A minimum grade of "C" in MATH 5333.**Cross Listing(s):** MATH 5334G.**MATH 5335 Intermediate Linear Algebra****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

General vector spaces and bases, linear operators, least squares problems, eigenvalue problems, and applications of these concepts.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 2332.**Cross Listing(s):** MATH 5335G.**MATH 5336 Applied Numerical Methods****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to scientific computation. Solutions of linear and nonlinear equations, polynomial interpolation, numerical differentiation and integration, data fitting, and other numerical methods.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and prior knowledge of a programming language.**Cross Listing(s):** MATH 5336G.

MATH 5337 Difference Equations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the theory and applications of difference equations. Topics include the difference calculus, first order linear difference equations, results and solutions of linear equations, applications, equations with variable coefficients and nonlinear equations that can be linearized.

Prerequisite(s): A minimum grade of "C" in MATH 2160 or MATH 2242.

Cross Listing(s): MATH 5337G.

MATH 5338 Methods of Applied Mathematics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Methods of applied mathematics concentrating on techniques for the analysis of differential and integral equations. Topics include: Integral equations, differential operators, Fredholm alternative, distribution theory and Green's function methods.

Prerequisite(s): A minimum grade of "C" in MATH 3230.

Cross Listing(s): MATH 5338G.

MATH 5339 Partial Differential Equations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of differential equations involving functions of more than one variable. Topics include: Laplace, heat and wave equations, boundary value problems, methods of separation of variables and eigenfunction expansions, Fourier series, Green's functions, maximum principle and computational methods.

Prerequisite(s): A minimum grade of "C" in MATH 2243 and MATH 3230.

Cross Listing(s): MATH 5339G.

MATH 5412 Secondary School Curriculum and Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Material and methods of teaching secondary school mathematics including field experience.

Prerequisite(s): A minimum grade of "C" in MATH 3932.

Cross Listing(s): MATH 5412G.

MATH 5430 Introduction to Mathematical Biology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to applications of mathematics to various biological, ecological, physiological, and medical problems, which will be analyzed both analytically and numerically.

Prerequisite(s): A minimum grade of "C" in MATH 3230.

Cross Listing(s): MATH 5430G.

MATH 5431 Graph Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Graphs and digraphs, trees, connectivity, matchings, paths, cycles, bipartite graphs, Euler's formula, planar graphs, and graph coloring.

Prerequisite(s): A minimum grade of "C" in MATH 2332.

Cross Listing(s): MATH 5431G.

MATH 5433 Differential Geometry of Curves and Surfaces**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Differential geometry uses tools from calculus and linear algebra to study the geometric properties of smooth curves and surfaces in Euclidean spaces. Topics include: arc length surface area, geodesics, curvature, first and second fundamental forms, Gauss-Bonnet formula.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 2243.

Cross Listing(s): MATH 5433G.

MATH 5434 Functions of a Complex Variable**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics in complex variables including functions, limits, derivatives, integrals, the Cauchy-Riemann conditions, series representation of functions, Cauchy Integral formula, and elementary conformal mappings.

Prerequisite(s): A minimum grade of "C" in MATH 2332.

Cross Listing(s): MATH 5434G.

MATH 5435 Introduction to Topology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to metric spaces, topological spaces, connectedness and compactness of topological spaces, and continuous functions on topological spaces.

Prerequisite(s): A minimum grade of "C" in MATH 2332.

Cross Listing(s): MATH 5435G.

MATH 5436 Introduction to Fractals**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Fractals as nonlinear systems involving feedback and iteration. Classical fractals, limits and self-similarity. Fractal dimensions. Encoding of fractals. Decoding of fractals. Iterated function systems.

Prerequisite(s): A minimum grade of "C" in MATH 5331.

Cross Listing(s): MATH 5436G.

MATH 5437 Mathematics and Computation of Curves and Surfaces**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a study of the mathematical and computational techniques used for the computer generation of curves and surfaces. The primary representations for the curves and surfaces are univariate and multivariate polynomials and splines in the Bernstein/Bezier and B-spline bases. These curves and surfaces are used for data fitting (interpolation and smoothing) and approximation. Topics include: recursion, smoothness, surfaces over grids, surfaces over triangulations, simplex and box splines, variational curves and surfaces, transformations and projections.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 2243.

Cross Listing(s): MATH 5437G.

MATH 5441 Financial Mathematics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics include theory of interest, loans, bonds, yield rates, amortization, immunization, cash flows, and interest rate swaps. The content of this course will also prepare students for the Society of Actuaries Exam FM (Financial Mathematics).

Prerequisite(s): A minimum grade of "C" in MATH 2242.

Cross Listing(s): MATH 5441G.

MATH 5480 Optimization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Operations research topics including nonlinear programming, network analysis, Markov chains, game theory, and inventory theory.

Prerequisite(s): MATH 2160.

Cross Listing(s): MATH 5480G.

MATH 5530 Mathematics for Scientists and Engineers**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of mathematical topics useful in the study of areas of applied sciences such as physics, engineering and computer science. Topics include: linear algebra and matrices, ordinary differential equations, partial differential equations, Fourier series, vector calculus, complex variables, numerical methods, probability and graph theory. For non-math majors only.

Prerequisite(s): A minimum grade of "C" in MATH 2242.

Cross Listing(s): MATH 5530G.

MATH 5539 Mathematical Models**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to a variety of mathematical tools used for solving real world problems, with the focus on identifying the problem, constructing an appropriate model, and finding the best available method to solve it.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 3230.

Cross Listing(s): MATH 5539G.

MATH 5660 Statistical Data Analytics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will apply concepts learned in diverse areas of mathematics to data analysis. Topics include clustering and classification, data cleaning, text analysis and document similarities, frequent itemsets and association rules, neural networks, support vector machines, and decision trees. This class has a primary focus on the underlying mathematical theory, with a secondary focus on application. Students will be introduced to R and RStudio for data storage, manipulation, and visualization.

Prerequisite(s): A minimum grade of "C" in all of the following: MATH 2160, MATH 2243, MATH 3337 or STAT 5531.

Cross Listing(s): MATH 5660G, STAT 5660, STAT 5660G.

MATH 5090G Selected Topics in Mathematics**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Specialized study in a selected area of Mathematics. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): Permission of instructor required.

Cross Listing(s): MATH 5090.

MATH 5130G Statistics and Probability for K-8 Teachers**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth study of topics in statistics, such as sampling and data analysis, and probability, such as counting methods, odds, and expected value. For Early Childhood and Middle Grade majors only. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 3032.

Cross Listing(s): MATH 5130.

MATH 5135G Algebraic Connections for K-8 Teachers**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The evolution of algebraic concepts through the curriculum will be followed by how algebra is related to other areas of mathematics and real-world applications. For Early Childhood and Middle Grade majors only. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 3032.

Cross Listing(s): MATH 5135.

MATH 5136G History of Mathematics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the historical development of mathematics. The emphasis will be on mathematical concepts, problem solving, and pedagogy from a historical perspective. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in MATH 2242.

Cross Listing(s): MATH 5136.

MATH 5137G Geometry for K-8 Teachers**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of the study of geometry from MATH 3032. Focus will be on two and three dimensional geometry. Moton geometry and tessellations will also be covered. For Early Childhood and Middle Grade majors only. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 3032.

Cross Listing(s): MATH 5137.

MATH 5230G Advanced Geometry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics from Euclidean and Non-Euclidean Geometry. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in MATH 3360 or one year of teaching high school mathematics.

Cross Listing(s): MATH 5230.

MATH 5234G Number Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the principal ideas of elementary number theory: Divisibility, congruencies, linear Diophantine Equations, Fermat's Theorem, Euler's Theorem, Pythagorean triples and the distribution of primes. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in MATH 2332.

Cross Listing(s): MATH 5234.

MATH 5236G Patterns of Problem Solving**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of the study of geometry from MATH 3032. Focus will be on two and three dimensional geometry. Moton geometry and tessellations will also be covered. For Early Childhood and Middle Grade majors only. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 1441, or permission of instructor.

Cross Listing(s): MATH 5236.

MATH 5251G Combinatorics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Counting principles such as permutations, combinations, derangements, pigeonhole, and inclusion/exclusion; partitions; generating functions; recurrence relations; applications from graph theory and applied algebra. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2332.

Cross Listing(s): MATH 5251.

MATH 5330G Operations Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to basic deterministic and probabilistic operations research models of decision problems. Mathematical methods of optimization for these models will be analyzed both analytically and numerically. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 3337.

Cross Listing(s): MATH 5330.

MATH 5331G Analysis I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides a transition from calculus to real analysis. Emphasis will be placed on understanding and constructing mathematical proofs. Rigorous development of fundamental concepts in analysis, including topics such as relations, functions, limits of functions, cardinality, topology of the reals, completeness axiom, compact sets, sequences, subsequence, continuity and differentiability. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2243 and MATH 2332.

Cross Listing(s): MATH 5331.

MATH 5332G Analysis II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of Analysis I, including topics such as Riemann integration, infinite series, sequences and series of functions, metric spaces, and normed spaces. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 5331 or MATH 5331G.

Cross Listing(s): MATH 5332.

MATH 5333G Modern Algebra I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the fundamental algebraic structures: groups, rings and fields. Topics covered include: binary operations, groups (permutation groups, subgroups, cyclic groups, group homomorphisms, factor groups), rings (integral domains, ring homomorphisms) and fields. The historical and mathematical connections to the secondary mathematics curriculum will be incorporated as appropriate. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2332.

Cross Listing(s): MATH 5333.

MATH 5334G Modern Algebra II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of the study of the fundamental algebraic structures. Topics to be covered include: isomorphism of groups, rings, fields, a deeper study of quotient structures and the isomorphism theorems, field of quotients, factorization of polynomials over a field, arithmetic properties of rings of polynomials over fields, extension fields, algebraic extensions, geometric constructions and the classic problems. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 5333 or MATH 5333G.

Cross Listing(s): MATH 5334.

MATH 5335G Intermediate Linear Algebra**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

General vector spaces and bases, linear operators, least squares problems, eigenvalue problems, and applications of these concepts. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 2332.

Cross Listing(s): MATH 5335.

MATH 5336G Applied Numerical Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to scientific computation. Solutions of linear and nonlinear equations, polynomial interpolation, numerical differentiation and integration, data fitting, and other numerical methods. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2160.

Cross Listing(s): MATH 5336.

MATH 5337G Difference Equations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the theory and applications of difference equations. Topics include the difference calculus, first order linear difference equations, results and solutions of linear equations, applications, equations with variable coefficients and nonlinear equations that can be linearized. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2242 and MATH 2160.

Cross Listing(s): MATH 5337.

MATH 5338G Methods of Applied Mathematics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Methods of applied mathematics concentrating on techniques for the analysis of differential and integral equations. Topics include: Integral equations, differential operators, Fredholm alternative, distribution theory and Green's function methods. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 3230.

Cross Listing(s): MATH 5338.

MATH 5339G Partial Differential Equations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of differential equations involving functions of more than one variable. Topics include: Laplace, heat and wave equations, boundary value problems, methods of separation of variables and eigenfunction expansions, Fourier series, Green's functions, maximum principle and computational methods. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2243 and MATH 3230.

Cross Listing(s): MATH 5339.

MATH 5412G Sec School Curr and Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Material and methods of teaching secondary school mathematics including field experience.

MATH 5430G Introduction to Mathematical Biology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to applications of mathematics to various biological, ecological, physiological, and medical problems, which will be analyzed both analytically and numerically. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 3230.

Cross Listing(s): MATH 5430.

MATH 5431G Graph Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Graphs and digraphs, trees, connectivity, matchings, paths, cycles, bipartite graphs, Euler's formula, planar graphs, and graph coloring. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisites: minimum grade of "C" in MATH 2332.

MATH 5433G Differential Geometry of Curves and Surfaces
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Differential geometry uses tools from calculus and linear algebra to study the geometric properties of smooth curves and surfaces in Euclidean spaces. Topics include: arc length surface area, geodesics, curvature, first and second fundamental forms, Gauss-Bonnet formula. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2243 and MATH 2160.

Cross Listing(s): MATH 5433.

MATH 5434G Functions of a Complex Variable
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics in complex variables including functions, limits, derivatives, integrals, the Cauchy-Riemann conditions, series representation of functions, Cauchy Integral formula, and elementary conformal mappings. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite: A minimum grade of "C" in MATH 2332.

Cross Listing(s): MATH 5434.

MATH 5435G Introduction to Topology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An introduction to metric spaces, topological spaces, connectedness and compactness of topological spaces, and continuous functions on topological spaces. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2332.

Cross Listing(s): MATH 5435.

MATH 5436G Introduction to Fractals

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Fractals as nonlinear systems involving feedback and iteration. Classical fractals, limits and self-similarity. Fractal dimensions. Encoding of fractals. Decoding of fractals. Iterated function systems. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 5331 or MATH 5331G.

Cross Listing(s): MATH 5436.

MATH 5437G Mathematics and Computation of Curves and Surfaces

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is a study of the mathematical and computational techniques used for the computer generation of curves and surfaces. The primary representations for the curves and surfaces are univariate and multivariate polynomials and splines in the Bernstein/Bezier and B-spline bases. These curves and surfaces are used for data fitting (interpolation and smoothing) and approximation. Topics include: recursion, smoothness, surfaces over grids, surfaces over triangulations, simplex and box splines, variational curves and surfaces, transformations and projections. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2243 and MATH 2160.

Cross Listing(s): MATH 5437.

MATH 5441G Financial Mathematics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics include theory of interest, loans, bonds, yield rates, amortization, immunization, cash flows, and interest rate swaps. The content of this course will also prepare students for the Society of Actuaries Exam FM (Financial Mathematics). Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Cross Listing(s): MATH 5441.

MATH 5480G Optimization

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Operations research topics including nonlinear programming, network analysis, Markov chains, game theory, and inventory theory. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2160.

Cross Listing(s): MATH 5480.

MATH 5530G Mathematics for Scientists and Engineers

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of mathematical topics useful in the study of areas of applied sciences such as physics, engineering and computer science. Topics include: linear algebra and matrices, ordinary differential equations, partial differential equations, Fourier series, vector calculus, complex variables, numerical methods, probability and graph theory. For non-math majors only. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2242.

Cross Listing(s): MATH 5530.

MATH 5539G Mathematical Models

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to a variety of mathematical tools used for solving real world problems, with the focus on identifying the problem, constructing an appropriate model, and finding the best available method to solve it. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 2160 and MATH 3230.

Cross Listing(s): MATH 5539.

MATH 5660G Statistical Data Analytics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course will apply concepts learned in diverse areas of mathematics to data analysis. Topics include clustering and classification, data cleaning, text analysis and document similarities, frequent itemsets and association rules, neural networks, support vector machines, and decision trees.

This class has a primary focus on the underlying mathematical theory, with a secondary focus on application. Students will be introduced to R and RStudio for data storage, manipulation, and visualization. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in the following: MATH 2160, MATH 2243, and at least one of MATH 3337 and STAT 5531.

Cross Listing(s): MATH 5660, STAT 5660, STAT 5660G.

MATH 6230 Fundamental Ideas of Calculus
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A review of the principal ideas of calculus, with emphases on concepts. Intended for Mathematics Education majors.

Prerequisite(s): A minimum grade of "C" in MATH 1441; permission of instructor.

MATH 6900 Special Topics in Mathematics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Selected topics in mathematics.

MATH 6910 Topics in Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Selected topics in an area of real or complex analysis.

MATH 6920 Topics in Geometry
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Topics from Euclidean and non-Euclidean geometry.

MATH 6930 Topics in Applied Mathematics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Selected topics in an area of mathematics that has broad applications to disciplines outside of mathematics.

MATH 7090 Selected Topics in Mathematics
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Specialized study in a selected area of Applied Mathematics.

Prerequisite(s): Permission of instructor.

MATH 7130 Mathematical Optimization Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course covers fundamentals of mathematical optimization theory. Topics include: elements of convex analysis, first and second order necessary and sufficient optimality conditions for unconstrained and constrained optimization problems, Lagrange multiplier theory, Lagrange duality theory, and an overview of important optimization techniques for convex, conic, semidefinite and complementarity problems.

Prerequisite(s): A minimum grade of "C" in MATH 5331.

MATH 7132 Methods of Optimization
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The first part of the course provides a brief introduction to the foundations of optimization, including optimality conditions. The second part concentrates on selected methods for unconstrained and constrained optimization problems. These include but are not limited to: line search methods, gradient methods, Newton-type methods, trust region methods, non-gradient methods, penalty and barrier methods, interior-point methods, methods of feasible directions and dual methods. Selected methods will be implemented on the computer. Prior completion of MATH 5330 is recommended.

Prerequisite(s): A minimum grade of "C" in MATH 5331.

MATH 7210 Quant Meth Decision Making
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Intermediate level linear models concentrating on multiple regression, linear programming techniques, queuing theory, and simulation.

MATH 7231 Advanced Numerical Analysis I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth study of computer arithmetic, the solution of non-linear equations, the solution of systems of linear equations, eigenvalue problems and interpolation. Algorithms and methods are developed and then implemented on a computer.

Prerequisite(s): A minimum grade of "C" in MATH 5336 or MATH 5336G.

MATH 7232 Advanced Numerical Analysis II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth study of orthogonal polynomials, numerical integration, and numerical solutions of ordinary and partial differential equations. Development and computer implementation of algorithms and methods.

Prerequisite(s): A minimum grade of "C" in MATH 7231.

MATH 7234 Advanced Linear Algebra
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The study of linear maps on finite dimensional vector spaces. Topics include: diagonalization (direct sums, invariant subspaces and Cayley-Hamilton theorem for linear operators), inner product spaces (self-adjoint, orthogonal operators, orthogonal projections and the spectral theorem, bilinear and quadratic forms), canonical forms (Jordan and rational forms, minimal polynomials), special matrices (non-negative matrices), and the exponential of a linear operator.

Prerequisite(s): A minimum grade of "C" in MATH 5335.

MATH 7235 Analytic Number Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of topics from the classical analytic theory of numbers. Topics will be chosen from arithmetic functions, the distribution of primes, congruences, the Riemann-zeta functions, the prime number theorem, Eisenstein series, quadratic residues, Dirichlet series, Euler products, the Dedekind eta function, the Jacobi theta functions, integer partitions, and modular forms.

Prerequisite(s): A minimum grade of "C" in MATH 5234 and MATH 5434.

MATH 7236 Advanced Ordinary Differential Equations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The theory of ordinary differential equations and dynamical systems. Topics include: Sturm-Liouville boundary value problems, eigenfunction expansions, Lyapunov stability, limit cycles, Poincare Bendixson theorem, Floquet's theory and Invariance theorems.

Prerequisite(s): A minimum grade of "C" in MATH 3230.

MATH 7237 Mathematical Control Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

State-space techniques from modern control system theory. Topics include realization theory for MIMO systems, state-space techniques for feedback control, closed loop observer design, and state-space techniques in optimal control.

Prerequisite(s): A minimum grade of "C" in MATH 3230 and MATH 5336G.

MATH 7330 Functional Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The study of normed linear spaces and linear operators. Topics include: Hilbert spaces (projection theorem, Riesz representation, Parseval relation); Banach spaces (convexity, duality, bounded and compact operators, theorems of Hahn-Banach, Banach-Steinhaus, open mapping, closed graph, Fredholm alternative); Stone-Weierstrass and Banach fixed point theorems.

Prerequisite(s): A minimum grade of "C" in MATH 5332 and MATH 5335.

MATH 7331 Real Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Theory of Lebesgue measure and integration, monotone convergence, the dominated convergence theorem, Fubini's Theorem, Radon-Nikodym theorem, Riesz representation theorem, L_p and l_p spaces, functions of finite variation, Stieltjes integral, absolute continuity.

Prerequisite(s): A minimum grade of "C" in MATH 5331.

MATH 7332 Advanced Partial Differential Equations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The theory of linear and nonlinear partial differential equations. Topics include: Classical theory of elliptic, parabolic and hyperbolic partial differential equations and their solutions, potential theory, maximum principle, existence of weak solutions, regularity of solutions, Duhamel's principle and Cauchy's problem.

Prerequisite(s): A minimum grade of "C" in MATH 5339 or MATH 5339G.

MATH 7333 Complex Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth study of functions of one complex variable. Topics include: properties of holomorphic, harmonic, meromorphic and entire functions (open mapping, maximum modulus, mean value, Poisson's, Rouche's, Liouville's, Picard's and Mittag-Leffler's theorems), residue theory (residue theorem, argument principle and applications), conformal mappings (Möbius and Christoffel-Schwarz canonical transformations, Riemann mapping theorem), analytic continuation (monodromy theorem, Schwarz reflection principle, Riemann surfaces and multi-valued functions).

Prerequisite(s): A minimum grade of "C" in MATH 5331 and MATH 5434.**MATH 7334 Approximation Theory****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of the approximation of functions in normed linear spaces. The course emphasizes the theory of interpolation and approximation by polynomials, rational functions and spline functions. Main topics include: best approximation, order of approximation, interpolation, existence and uniqueness of best approximants, theorems by Weierstrass, Haar, Chebyshev, Bernstein, Markov, Korovkin, Schoenberg, and applications.

Prerequisite(s): A minimum grade of "C" in MATH 5331 and MATH 5335.**MATH 7430 Abstract Algebra I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a comprehensive study of group theory. The course begins with basic concepts of group theory (binary structures, subgroups, homomorphisms) and continues with the study of normal subgroups, quotient groups and the isomorphism theorems. Further topics to be studied include group actions, Sylow's theorem and the structure of finitely generated abelian groups.

Prerequisite(s): A minimum grade of "C" in MATH 5333 or MATH 5333G.**MATH 7431 Abstract Algebra II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course provides a comprehensive study of rings and fields. The course begins with the basic concepts (rings, subrings, ideals, quotient rings, homomorphisms), continues with the arithmetic of rings, applications to rings of polynomials and field theory, and concludes with a chapter on Galois theory that links field theory and group theory.

Prerequisite(s): A minimum grade of "C" in MATH 7430.**MATH 7432 Differential Geometry of Manifolds****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study and applications of calculus on manifolds. Topics include: atlases, tangent spaces, differentiable maps; immersions and submanifolds, submersions and quotient manifolds; matrix groups and their Lie algebras; vector fields and flows; differential forms, exterior derivative, and Lie derivative.

Prerequisite(s): A minimum grade of "C" in MATH 3230 and MATH 5335.**MATH 7435 Elements of Algebraic Topology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of the topology of geometric objects from the algebraic viewpoint, in particular using homotopy and homology groups. Main topics: Topological manifolds, homotopy, fundamental group, free groups, covering spaces, and homology.

Prerequisite(s): A minimum grade of "C" in MATH 5435.**MATH 7530 Problem Solving****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of patterns involved in solving problems. Particular attention is paid to Poly's heuristics and his characterization of the problem-solving process. The application of these techniques by mathematics teachers will be stressed.

MATH 7610 Graduate Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Under supervision of one or more faculty members, each student will choose topics related to his or her concentration, or topics of interest to the class, read and research on them, then make presentations in front of the class or a larger audience. Students will also attend presentations of internal and external speakers on mathematical sciences.

Prerequisite(s): A minimum grade of "C" in MATH 5332 or MATH 5335 or STAT 5531 or MATH 7231.**MATH 7890 Directed Study in Mathematics****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Directed study under faculty supervision.

Prerequisite(s): Permission of instructor and Department Chair required.**MATH 7895 Research****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Graduate students will conduct a program of independent research under the direction of a thesis advisor or an advisory committee on a topic in Mathematical Sciences. Results of the research will be presented as a thesis in partial fulfillment of the requirement of the Master of Science degree.

MATH 7900 Special Topics in Mathematics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected topics in mathematics.

MATH 7999 Thesis**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Results of independent research conducted under the direction of a thesis advisor will be presented as a thesis in partial fulfillment of the Master of Science degree. The thesis will be defended before an advisory committee.

MATH 8540 Fundamentals of Probability**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of fundamental ideas of probability with emphasis on topics, examples, and applications for secondary mathematics teachers.

MATH 8570 Transformation Geometry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Algebraic operations on the complex numbers and their corresponding geometric interpretations; a characterization of isometries of the complex plane as translations, rotations, reflections and glide reflections; a study of isometries as groups; similarities, some classic theorems.

MATH 8580 Calculus First Three Dimension**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the basic notions of differential and integral calculus for functions in dimensions one, two, and three, presented for students with previous courses in calculus with emphasis on concepts, applications, problem solving and historical development.

MENG Mechanical Engineering

MENG 1310 Manufacturing Processes Lab**1 Credit Hour. 0,1 Lecture Hours. 0,2 Lab Hours.**

This course covers hands on introduction to various manufacturing, machining and fabrication processes including welding, thread cutting, and machining using lathe and mill.

Prerequisite(s): Mechanical or Manufacturing Engineering major or permission of department.**MENG 2110 Mechanical Engineering Case Studies in Design & Analysis****1 Credit Hour. 0,1 Lecture Hours. 0,2 Lab Hours.**

The course includes fundamental techniques for creating, analyzing, synthesizing, and implementing design solutions to open-ended problems through team and individual efforts utilizing flexibility, adaptability, and creativity.

Prerequisite(s): A minimum grade of "C" in ENGR 1133.

MENG 2139 Numerical Methods in Engineering
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

Mathematical modeling and numerical solution of engineering related problems with emphasis on solution of linear and nonlinear equations, matrices, vectors, statistical data analysis, curve fitting, ordinary and partial differential equations.

Prerequisite(s): Completion of MATH 2242 with a minimum grade of "C" and completion of ENGR 1121 or ENGR 1731 or concurrent enrollment in MFGE 2534.

MENG 3130 Mechanism Design
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers detailed concepts, functions and knowledge of the components of mechanisms, machine components and design tools. Analytical, mathematical and computer techniques for kinematic and dynamic analysis of mechanisms and machine components are introduced. A comprehensive project covers the mechanism synthesis and design experience using analytical and computer simulation tools.

Prerequisite(s): A minimum grade of "C" in ENGR 2232 or permission of instructor.

MENG 3135 Machine Design
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Prerequisite(s): A minimum grade of "C" in ENGR 3233 and MENG 2110 or permission of the department.

MENG 3233 Heat Transfer
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will be an introduction to basic energy transport by conduction, convection, and radiation with applications to heat exchanger, extended surfaces etc.

Prerequisite(s): A minimum grade of "C" in ENGR 3431 and ENGR 3235 or permission of instructor.

MENG 3331 Materials Science
3 Credit Hours. 0,2 Lecture Hours. 0,3 Lab Hours.

The study of engineering materials such as metals, alloys, polymers, ceramics, and composites. Atomic structure and arrangement; control of the microstructure and mechanical properties, solidification, cooling curves and phase diagrams, mechanical testing, and strengthening mechanisms. Laboratory includes problem-solving sessions and experiments on materials related to strengths, toughness, solidification, and metallography.

Prerequisite(s): A minimum grade of "C" in all of the following: CHEM 1212K or CHEM 1310, ENGR 3233.

MENG 3333 Materials Processing
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

The course covers the study of traditional and modern processing techniques. The course will cover applications and use of different materials and their processing, metal-casting processes and equipment, forming and shaping processes and equipment, joining processes and equipment, molding, extrusion and fabrication of polymers, and composites processing and techniques. Laboratory includes problem solving sessions, experiments, and hands-on processing of materials.

Prerequisite(s): A minimum grade of "C" in MENG 3331 and MENG 1310 or permission of the department.

MENG 3521 Mechatronics Studio Laboratory
2 Credit Hours. 0 Lecture Hours. 4 Lab Hours.

This course is an introduction to the theory and practice of engineering measurements, instrumentation, data acquisition, statistical analysis of data, controls and mechatronic systems and their applications integrated with computing. Topics include measurement fundamentals, applications of computing in measurement and mechatronic systems, sensors, analog signal processing, data acquisition and analysis, digital circuits, microcontroller programming and interfacing, actuators, and mechatronic system design.

Prerequisite(s): A minimum grade of "C" in ENGR 2131 and MENG 2139 and ENGR 3233.

MENG 3531 Introduction to Mechatronics
3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

This course is an introduction to the theory and practice of engineering measurements, instrumentation, data acquisition, statistical analysis of data, controls and mechatronic systems and their applications integrated with computing. Topics include measurement fundamentals, applications of computing in measurements and mechatronic systems, sensors, analog signal processing, data acquisition and analysis, digital circuits, microcontroller programming and interfacing, actuators, and mechatronic system design.

Prerequisite(s): A minimum grade of "C" in ENGR 2131 and MENG 2139 and ENGR 3233.

MENG 4210 Energy Science Laboratory
1 Credit Hour. 0 Lecture Hours. 0,2 Lab Hours.

The course includes laboratory activities in support of instruction in Thermodynamics and heat transfer.

Prerequisite(s): A minimum grade of "C" in all the following: MENG 3233 and MENG 3531 or MENG 3521 or permission of instructor.

MENG 4430 Engineering Quality Control and Project Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course will introduce students to basic tools of engineering economy such as; interest rates, cash flow analysis, cost benefit analysis, and depreciation analysis that are used in comparing and evaluating multiple engineering projects on the basis of quantitative monetary parameters. Students will additionally be introduced to basic quality control techniques such as quality control charts and Six Sigma techniques for assuring product quality.

Prerequisite(s): A minimum grade of "C" in MENG 2110, MENG 3135, and MENG 3333.

MENG 4612 Mechanical Engineering Senior Seminar
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

Students are introduced to topics essential for improving performance on the Fundamentals of Engineering Exam. Topics such as engineering economy, ethics, and global citizenship are reinforced, while topics such as electrical devices, mechanics, energy science, and numerical methods are reviewed.

Prerequisite(s): MATH 2243 and a minimum grade of "C" in ENGR 2131, ENGR 2232, ENGR 3233, ENGR 3235, MENG 2139, MENG 3233, and MENG 3331.

MENG 4899 Directed Study in Mechanical Engineering
3 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

An individualized study involving research and applications pertaining to Mechanical Engineering.

Prerequisite(s): Senior standing, prior identification of a problem or study area, and permission of instructor.

MENG 5090 Selected Topics in Mechanical Engineering
1-9 Credit Hours. 0-9 Lecture Hours. 0-6 Lab Hours.

This course provides for the study of Mechanical Engineering course topics not generally offered by the program or that are being considered for addition to the program.

Prerequisite(s): A minimum grade of "C" in MENG 3135, MENG 3233, MENG 3333, and MENG 3531 or Permission of the Department.

Cross Listing(s): MENG 5090G.

MENG 5134 Vehicle Dynamics
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

This course covers fundamental concepts related to mathematical models and designs of automotive vehicle as multiple degree of freedom system. It also covers its dynamic performance under acceleration, braking, steering, rollover considering road loads, suspension system and tire characteristics. Emphasis is given to the stability of the vehicle under these dynamic conditions. Graduate students are expected to carry out research activities and submit research paper as their projects.

Prerequisite(s): A minimum grade of "C" in MENG 2139 and MENG 3130 or permission of the department.

Cross Listing(s): MENG 5134G.

MENG 5135 Vibration and Preventive Maintenance**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Free and Forced Vibration of one and multi-degree of freedom systems will be covered. Applications of vibration analysis for preventive maintenance of mechanical systems will be introduced. Laboratories include basic vibration analysis and its applications.

Prerequisite(s): Completion of MATH 3230 and a minimum grade of "C" in MENG 3130, MENG 3531 or MENG 3521 or permission of the department.

Cross Listing(s): MENG 5135G.

MENG 5136 Introduction to Finite Element Analysis**3 Credit Hours. 0,1 Lecture Hours. 0,4 Lab Hours.**

This course will introduce students to the fundamentals of Finite Element Analysis. The students will develop a working knowledge of a commercial FEA software package and will model and analyze mechanical and thermal engineering systems using that software. The students will additionally develop an ability and competence in interpretation and analysis of FEA results.

Prerequisite(s): A minimum grade of "C" in ENGR 2112, ENGR 3235, MENG 2139, MENG 3135, MENG 3233 or permission of the department.

Cross Listing(s): MENG 5136G.

MENG 5137 Mechanical System Design**3 Credit Hours. 0 Lecture Hours. 0,6 Lab Hours.**

This is a senior design course requiring that students call upon all of their academic preparations in developing the solution of mechanical system problems.

Prerequisite(s): A minimum grade of "C" in ENGR 2112, MENG 3130, MENG 3135, MENG 3233, MENG 3333, and (MENG 3531 or MENG 3521) and senior standing.

Cross Listing(s): MENG 5137G.

MENG 5138 Composite Materials: Manufacturing, Analysis, and Design**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course introduces basics of fiber reinforced, and laminated composites, anisotropic theory, stress analysis, design and testing of composite materials. Topics include an overview of structure and processing of composite materials, classification of anisotropy, anisotropic constitutive models, classical laminate theory, failure theories, and test methods. The knowledge will be applied to a design of simple composite structural elements.

Prerequisite(s): A minimum grade of "C" in (MENG 3135 or MFGE 3131) and (MENG 3333 or MFGE 2531), or permission of the department.

Cross Listing(s): MENG 5138G.

MENG 5139 Renewable Energy**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

The design, operation, and environmental and socio-economic impact of renewable energy systems will be presented with an engineering emphasis. Additionally, cycle evaluation and analysis of the renewable energy systems, the efficiency and power output of renewable energy systems, their benefits and costs will be determined. Graduate students will be required to complete an additional design project that involves a class presentation with a more advanced technical analysis.

Prerequisite(s): A minimum grade of "C" in MENG 3233 or permission of instructor.

Cross Listing(s): MENG 5139G, TMAE 5139, TMAE 5139G.

MENG 5231 Tribology and Reliability**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The course is an introduction to basic tribology concepts in mechanical engineering and advanced machine design. Students will learn the relationships between friction, wear and lubrication, material surface and environment, and their effects on functionality of components. Students will be able to analyze and assess the effects of material properties, surface features and lubrication solutions on the friction and wear of engineering material contacts. Students will also be introduced to (1) the analysis of engineering components (such as bearings and gears), systems, and case studies, and (2) the fundamentals of reliability as they relate to mechanical engineering.

Prerequisite(s): A minimum grade of "C" in ENGR 3235, MENG 3135, MENG 3521, MENG 3531, MENG 3233 and MENG 3333 or permission of department.

Cross Listing(s): MENG 5231G.

MENG 5233 Wind Energy**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course provides an in-depth introduction to modern wind turbine technology and the development of the wind power industry. Students will learn general characteristics of the wind resource and the atmospheric boundary layer. They will also learn how to analyze wind data, estimate wind resources and use statistical techniques to estimate wind turbine energy production. Aerodynamic characteristics of various turbine (HAWT and VAWT) models design, blade design, airfoils design, blade number effect and optimization techniques will be discussed theoretically and computationally for various applications. This course provides the general principles of wind turbine loads, mechanics, rotor dynamics, and methods for modeling turbine structural response. Electrical aspects of wind turbines, turbine control, turbine materials and components will also be studied, as well as, turbine design and testing, wind turbine siting, system design and integration.

Prerequisite(s): A minimum grade of "C" in ENGR 2112, ENGR 3235, MENG 3130, MENG 3135, and (MENG 3531 or MENG 3521).

Cross Listing(s): MENG 5233G.

MENG 5234 Heating, Ventilating, and Air Conditioning**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This is an introductory course in Heating, Ventilating, and Air Conditioning (HVAC) systems. In this course HVAC processes are analyzed and load calculations are performed in accordance with American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) practices.

Prerequisite(s): A minimum grade of "C" in MENG 3233 or permission of the department.

Cross Listing(s): MENG 5234G.

MENG 5237 Applied Combustion**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course is an introduction to the fundamentals of combustion processes, thermochemistry, chemical kinetics, simple chemical reactors, premixed and nonpremixed combustion, turbulent combustion and its practical applications, biofuel combustion, fuel surrogates, and pollutant emissions.

Prerequisite(s): A minimum grade of "C" in MENG 3233.

Cross Listing(s): MENG 5237G.

MENG 5238 Engine Development and Performance**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

The design, development, operation, and environmental impact of internal combustion engines will be presented in this course with an engineering emphasis. Additionally, cycle evaluation and analysis of the energy systems, the efficiency and power generation, their benefits and costs will be determined.

Prerequisite(s): A minimum grade of "C" in ENGR 3235, ENGR 3431, MENG 3233 and (MENG 3531 or MENG 3521).

Cross Listing(s): MENG 5238G.

MENG 5239 Biofuels Development and Testing**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

The development of biofuels for engine operation and their environmental impact will be presented with an engineering emphasis. Additionally, life cycle evaluation, analysis of the energy systems and their efficiency with biofuels, together with benefits and costs will be determined.

Prerequisite(s): A minimum grade of "C" in (CHEM 1212 or CHEM 1310), MENG 3233.

Cross Listing(s): MENG 5239G.

MENG 5331 Automation and Computer Integrated Manufacturing Systems**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course will cover the fundamental concepts in manufacturing, automation, and various topics in production and control systems. These include numerical control, industrial robots, computer integrated manufacturing systems, flexible manufacturing system, and process monitoring and control.

Prerequisite(s): A minimum grade of "C" in ENGR 1133 and (ENGR 1121, ENGR 1731 or MFGE 2534) and (MENG 3333 or MFGE 2533) or permission of the department.

Cross Listing(s): MENG 5331G.

MENG 5333 Robot Dynamics, Design and Analysis**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

An integrated treatment of robot kinematics, dynamics and control is introduced with an emphasis on analysis, design and programming of robots and their applications. Topics include planar and spatial kinematics, and motion planning; mechanism design for manipulators and mobile robots; forward and inverse kinematics, differential kinematics, manipulability, workspace design; planar and spatial multi-rigid-body-dynamics, dynamic models of robots; introduction to computer vision; robot programming; and robot control. Students will be engaged in laboratory activities to study kinematics, dynamics, programming and real-time control of robotic systems that include manipulators, mobile robots, and unmanned aerial vehicles (UAVs).

Prerequisite(s): A minimum grade of "C" in MENG 3130 and MENG 3531 or MENG 3521.

Cross Listing(s): MENG 5333G.

MENG 5335 Applied Programmable Logic Controllers**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The programmable logic controllers (PLC), its components and operation, common methods of programming the PLC, and its applications in industry will be studied. The course also studies associated hardware which include sensors, and actuators to further student's background and skills using PLC.

Prerequisite(s): A minimum grade of "C" in MENG 3531.

Cross Listing(s): MENG 5335G.

MENG 5431 Compressible Flow**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course introduces the basic equations and concepts of compressible flow. The generalized equations and solutions are developed and solved for: one-dimensional moving and normal shocks, oblique shocks, expansion fans, compressible flow with friction, and compressible flow with heat transfer. Software will be utilized to solve compressible flow problems.

Prerequisite(s): A minimum grade of "C" in ENGR 2112 or MENG 3233.

Cross Listing(s): MENG 5431G.

MENG 5432 Applied Computational Fluid Dynamics**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course introduces the numerical techniques applied to the solution of fluid flow and heat transfer problems. The Finite Difference and Finite Volume methods are used to discretize and numerically solve the governing equations of heat transfer and fluid mechanics. Commercial computational fluid dynamics software is utilized for the analysis of heat transfer and fluid mechanics problems.

Prerequisite(s): A minimum grade of "C" in MENG 3233.

Cross Listing(s): MENG 5432G.

MENG 5433 Analysis of Energy Systems**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

The course will introduce students to the design and analysis of energy systems. The students will use the concepts of thermodynamics, fluid mechanics and heat transfer to analyze various energy systems. The course will also offer an introduction to compressible flow, associated with the energy systems. The students will develop a working knowledge of a commercial CFD software package and model and analyze the energy systems using the software.

Prerequisite(s): MATH 2243, MATH 3230, MATH, and a minimum grade of C in ENGR 2231, ENGR 3431, ENGR 3235, and MENG 3233.

Cross Listing(s): MENG 5433G.

MENG 5434 Heat Transfer Principles and Applications**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course will cover intermediate concepts related to conduction, convection and radiation heat transfer. Analytical solution methods for steady and transient conduction in one and two dimensions are developed and utilized. The continuity, momentum, and energy equations are derived and used in fundamental heat transfer applications. Radiation exchange between surfaces with and without participating media is presented and analyzed.

Prerequisite(s): A grade of "C" or better in MENG 3233 or permission of department.

Cross Listing(s): MENG 5434G.

MENG 5531 Metalcasting**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The course covers traditional and modern metalcasting processes and its metallurgy aspects. Specifically, the course will cover different melting and molding techniques, metal pouring and solidification, casting and its gating/riser design, various common casting materials (cast iron, steels, aluminum and copper alloys), and failure analyses. Laboratory includes problem solving sessions, experiments, and hands-on processing of materials.

Prerequisite(s): A minimum grade of "C" in (MENG 3331 or MFGE 2531) and (MENG 3333 or MFGE 2533).

Cross Listing(s): MENG 5531G.

MENG 5532 Nanomaterials, Nanocomposites & Nanotechnology**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Interdisciplinary lecture and lab course will provide a comprehensive overview and knowledge based and hands on experience of nanotechnology, nanomaterials and nanocomposites design, synthesis, characterization, applications, environmental and economic impacts.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K and MENG 3333.

Cross Listing(s): MENG 5532G.

MENG 5533 Applied Welding and Joining**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The course will cover the fundamentals of arc-welding physics, heat-flow in welding, design for welding, test-methods for evaluating welded joints, non-destructive evaluation, residual stress and distortion, mechanized, automated, and robotic welding, welding quality, and economics of welding.

Prerequisite(s): A minimum grade of "C" in MENG 3233 and MENG 3333.

Cross Listing(s): MENG 5533G.

MENG 5536 Mechanical Controls**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

An understanding of the elements of classical control theory will be developed. Students will be introduced to the concept of feedback and its properties; the concept of stability and stability margins; and the different tools that can be used to analyze these properties. Students will also develop a working knowledge of the basics of linear control techniques.

Prerequisite(s): A minimum grade of "C" in MENG 3130 and (MENG 3521 or MENG 3531) or permission of instructor.

Cross Listing(s): MENG 5536G.

MENG 5811 Introduction to Mechanical Engineering Research and Projects**1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

This course is an introduction to research and project best practices and methods. Topics include experiment design, ethics, laboratory safety, data analysis, statistics, technical writing and presentation. Students will identify and begin working with a research mentor.

Prerequisite(s): A minimum grade of "C" in ENGR 2112 and MENG 2139 and prior or concurrent enrollment in MENG 3531 or MENG 3521.

Cross Listing(s): MENG 5811G.

MENG 5822 Research Project in Mechanical Engineering**2 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

This course is a one-on-one research experience for mechanical engineering students. It is the second in a two course sequence including MENG 5811 Introduction to Mechanical Research and Projects.

Emphasis is placed on project or experiment design, implementation, analysis, and reporting, culminating in a final presentation, and a research report or honors thesis.

Prerequisite(s): A minimum grade of "C" in both (MENG 3531 or MENG 3521) and MENG 5811 or permission of instructor.

Cross Listing(s): MENG 5822G.

MENG 5891 Special Problems in Mechanical Engineering**1-6 Credit Hours. 0-6 Lecture Hours. 0-12 Lab Hours.**

Individual and specialized study in the areas of mechanical engineering not otherwise covered in the students' curriculum.

Prerequisite(s): Senior standing and identification of a problem or study area and permission of instructor.

Cross Listing(s): MENG 5891G.

MENG 5090G Selected Topics in Mechanical Engineering**1-3 Credit Hours. 1-3 Lecture Hours. 1-6 Lab Hours.**

This course provides for the study of Mechanical Engineering course topics not generally offered by the program or that are being considered for addition to the program. Graduate students will be required to complete a project, case study or other advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): Graduate Standing or Permission of Department.

Cross Listing(s): MENG 5090.

MENG 5134G Vehicle Dynamics**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course covers fundamental concepts related to mathematical models and designs of automotive vehicle as multiple degree of freedom system. It also covers its dynamic performance under acceleration, braking, steering, rollover considering road loads, suspension system and tire characteristics. Emphasis is given to the stability of the vehicle under these dynamic conditions. Graduate students are expected to carry out research activities and submit research paper as their projects. Graduate students will be required to complete a case study or other individualized advanced research activity that undergraduate students will not be required to complete.

Prerequisite(s): Mechanism Design or permission of the department.

Cross Listing(s): MENG 5134.

MENG 5135G Vibration and Preventive Maintenance**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Free and Forced Vibration of one and multi-degree of freedom systems will be covered. Applications of vibration analysis for preventive maintenance of mechanical systems will be introduced. Laboratories include basic vibration analysis and its applications. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): Completion of MENG 3531 and MENG 3130 and MATH 3230 or permission of department.

Cross Listing(s): MENG 5135.

MENG 5136G Introduction to Finite Element Analysis**3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

This course will introduce students to the fundamentals of Finite Element Analysis. The students will develop a working knowledge of a commercial FEA software package and will model and analyze mechanical and thermal engineering systems using that software. The students will additionally develop an ability and competence in interpretation and analysis of FEA results. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): A minimum grade of "C" in MENG 2139 and MENG 3135 and MENG 3233 and ENGR 2112 and ENGR 3235 or permission of department.

Cross Listing(s): MENG 5136.

MENG 5137G Mechanical System Design**3 Credit Hours. 0-3 Lecture Hours. 0-6 Lab Hours.**

This is a senior design course requiring that students call upon all of their academic preparations in developing the solution of mechanical system problems. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in MENG 3130 and MENG 3135 and MENG 3233 and MENG 3333 and MENG 3531 and ENGR 2112.

Cross Listing(s): MENG 5137, MENG 5137H.

MENG 5138G Composite Materials: Manufacturing, Analysis, and Design**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course introduces basics of fiber reinforced, and laminated composites, anisotropic theory, stress analysis, design and testing of composite materials. Topics include an overview of structure and processing of composite materials, classification of anisotropy, anisotropic constitutive models, classical laminate theory, failure theories, and test methods. The knowledge will be applied to a design of simple composite structural elements. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): A minimum grade of "C" in MENG 3135 or MFGE 3131 and MENG 3333 or MFGE 3531 or permission of department for graduate students.

Cross Listing(s): MENG 5138.

MENG 5139G Renewable Energy**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The design, operation, and environmental and socio-economic impact of renewable energy systems will be presented with an engineering emphasis. Additionally, cycle evaluation and analysis of the renewable energy systems, the efficiency and power output of renewable energy systems, their benefits and costs will be determined. Graduate students will be required to complete an additional design project that involves a class presentation with a more advanced technical analysis.

Prerequisite(s): A minimum grade of "C" in MENG 3233 or permission of department.

Cross Listing(s): MENG 5139, TMAE 5139, TMAE 5139G.

MENG 5231G Tribology and Reliability**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The course is an introduction to basic tribology concepts in mechanical engineering; it also includes the analysis engineering cases, and the fundamentals of reliability as they relate to mechanical engineering. Graduate students will be required to complete a case study or other individualized advanced research activity that undergraduate students will not be required to complete.

Prerequisite(s): A minimum grade of "C" in ENGR 3235 and MENG 3135 and MENG 3333 or permission of department.

MENG 5233G Wind Energy**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course provides an in-depth introduction to modern wind turbine technology and the development of the wind power industry. Students will learn general characteristics of the wind resource and the atmospheric boundary layer. They will also learn how to analyze wind data, estimate wind resources and use statistical techniques to estimate wind turbine energy production. Aerodynamic characteristics of various turbine (HAWT and VAWT) models design, blade design, airfoils design, blade number effect and optimization techniques will be discussed theoretically and computationally for various applications. This course provides the general principles of wind turbine loads, mechanics, rotor dynamics, and methods for modeling turbine structural response. Electrical aspects of wind turbines, turbine control, turbine materials and components will also be studied, as well as, turbine design and testing, wind turbine siting, system design, and integration. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in ENGR 2112, ENGR 3235, MENG 3130, MENG 3135, and (MENG 3531 or MENG 3521).

Cross Listing(s): MENG 5233.

MENG 5234G Heating, Ventilating, and Air Conditioning**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This is an introductory course in Heating, Ventilating, and Air Conditioning (HVAC) systems. In this course HVAC processes are analyzed and load calculations are performed in accordance with American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) practices. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): A minimum grade of "C" in MENG 3233 or permission of department.

Cross Listing(s): MENG 5234.

MENG 5237G Applied Combustion**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course is an introduction to the fundamentals of combustion processes, thermochemistry, chemical kinetics, simple chemical reactors, premixed and nonpremixed combustion, turbulent combustion and its practical applications, biofuel combustion, fuel surrogates, and pollutant emissions. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in MENG 3233 or permission of department.

Cross Listing(s): MENG 5237.

MENG 5238G Engine Development and Performance**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

The design, development, operation, and environmental impact of internal combustion engines will be presented in this course with an engineering emphasis. Additionally, cycle evaluation and analysis of the energy systems, the efficiency and power generation, their benefits and costs will be determined. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): Completion of MENG 3521 and MENG 3233 or permission of department.

Cross Listing(s): MENG 5238.

MENG 5239G Biofuels Development and Testing**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

The development of biofuels for engine operation and their environmental impact will be presented with an engineering emphasis. Additionally, life cycle evaluation, analysis of the energy systems and their efficiency with biofuels, together with benefits and costs will be determined. Graduate students will be required to complete a more advanced capstone design project that involves a class presentation and a more advanced technical analysis.

Prerequisite(s): A minimum grade of "C" in MENG 3233 or permission of department.

Cross Listing(s): MENG 5239.

MENG 5331G Automation and Computer Integrated Manufacturing Systems**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course will cover the fundamental concepts in manufacturing, automation, and various topics in production and control systems. These include numerical control, industrial robots, computer integrated manufacturing systems, flexible manufacturing system, and process monitoring and control. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): A minimum grade of "C" in ENGR 1133 and ENGR 1731 or MFGE 2534 and MENG 3333 or MFGE 2533 or permission of department.

Cross Listing(s): MENG 5331.

MENG 5333G Robot Dynamics, Design and Analysis**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

An integrated treatment of robot kinematics, dynamics and control is introduced with an emphasis on analysis, design and programming of robots and their applications. Topics include planar and spatial kinematics, and motion planning; mechanism design for manipulators and mobile robots; forward and inverse kinematics, differential kinematics, manipulability, workspace design; planar and spatial multi-rigid-body-dynamics, dynamic models of robots; introduction to computer vision; robot programming; and robot control. Students will be engaged in laboratory activities to study kinematics, dynamics, programming and real-time control of robotic systems that include manipulators, mobile robots, and unmanned aerial vehicles (UAVs). Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): Completion of MENG 3531 and MENG 3130 or permission of department.

Cross Listing(s): MENG 5333.

MENG 5335G Applied Programmable Logic Controllers**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The programmable logic controllers (PLC), its components and operation, common methods of programming, simulating and using the PLC in industry applications will be studied. Associated hardware which include sensors, input/output devices, and actuators will be studied to further student's background and skills using and simulating PLCs. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor, and graded using a rubric assessment tool.

Prerequisite(s): A minimum grade of "C" in MENG 3531 or permission of the department.

Cross Listing(s): MENG 5335.

MENG 5431G Compressible Flow**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course introduces the basic equations and concepts of compressible flow. The generalized equations and solutions are developed and solved for: one-dimensional moving and normal shocks, oblique shocks, expansion fans, compressible flow with friction, and compressible flow with heat transfer. Software will be utilized to solve compressible flow problems. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): MENG 3233 or permission of department.

Cross Listing(s): MENG 5431.

MENG 5432G Applied Computational Fluid Dynamics**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course introduces the numerical techniques applied to the solution of fluid flow and heat transfer problems. The Finite Difference and Finite Volume methods are used to discretize and numerically solve the governing equations of heat transfer and fluid mechanics. A commercial computational fluid dynamics software is utilized for the analysis of heat transfer and fluid mechanics problems. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): MENG 3233 or permission of department.

Cross Listing(s): MENG 5432.

MENG 5433G Analysis of Energy Systems**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The course will introduce students to the design and analysis of energy systems. The students will use the concepts of thermodynamics, fluid mechanics and heat transfer to analyze various energy systems. The course will also offer an introduction to compressible flow, associated with the energy systems. The students will develop a working knowledge of a commercial CFD software package and model and analyze the energy systems using the software. Graduate students will be required to complete a case study or other individualized advanced research activity that undergraduate students will not be required to complete.

Prerequisite(s): ENGR 2231, MATH 2243, MATH 3230, ENGR 3431, ENGR 3235, and MENG 3233.

Cross Listing(s): MENG 5433.

MENG 5434G Heat Transfer Principles and Applications**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover intermediate concepts related to conduction, convection and radiation heat transfer. Analytical solution methods for steady and transient conduction in one and two dimensions are developed and utilized. The continuity, momentum, and energy equations are derived and used in fundamental heat transfer applications. Radiation exchange between surfaces with and without participating media is presented and analyzed.

Prerequisite(s): MATH 5530 or permission of instructor.

MENG 5531G Metalcasting**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The course covers traditional and modern metalcasting processes and their metallurgy aspects. Specifically, the course will cover different melting and molding techniques, metal pouring and solidification, casting and its gating/riser design, various common casting materials (cast iron, steels, aluminum, and copper alloys), and failure analyses. Laboratory includes problem-solving sessions, experiments, and hands-on processing of materials. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor, and graded using a rubric assessment tool.

Prerequisite(s): A minimum grade of "C" in (MENG 3331 or MFGE 2531) and (MENG 3333 or MFGE 2533).

Cross Listing(s): MENG 5531.

MENG 5532G Nanomaterials, Nanocomposites & Nanotechnology**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Interdisciplinary lecture and lab course will provide a comprehensive overview and knowledge based and hands on experience of nanotechnology, nanomaterials and nanocomposites design, synthesis, characterization, applications, environmental and economic impacts. Graduate students will act as a Lead and resource person/coordinator of the Group projects. Undergraduate Students work under the leadership of Graduate students. Graduate students are responsible to coordinate the proposed work, Intermediate and Final Progress report. Graduate students are expected to be trained on Characterization tools. The Quiz and Exam standards are higher for Graduate students. Graduate students are also expected to present posters on the work in the CEC research symposium.

Prerequisite(s): A minimum grade of "C" in all of the following PHYS 2212K and MENG 3333.

Cross Listing(s): MENG 5532.

MENG 5533G Applied Welding and Joining**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

The course will cover the fundamentals of arc-welding physics, heat-flow in welding, design for welding, test-methods for evaluating welded joints, non-destructive evaluation, residual stress and distortion, mechanized, automated, and robotic welding, welding quality, and economics of welding will be covered. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor, and graded using a rubric assessment tool.

Prerequisite(s): A minimum grade of "C" in MENG 3233 and MENG 3333 or permission of the department.

Cross Listing(s): MENG 5533.

MENG 5536G Mechanical Controls**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

An understanding of the elements of classical control theory will be developed. Students will be introduced to the concept of feedback and its properties; the concept of stability and stability margins; and the different tools that can be used to analyze these properties. Students will also develop a working knowledge of the basics of linear control techniques. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): A minimum grade of "D" in MENG 3130 and MENG 3531 or permission of department.

Cross Listing(s): MENG 5536.

MENG 5811G Introduction to Mechanical Engineering Research and Projects**1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

This course is designed as an introduction to engineering research topics, experiment design, ethics, laboratory safety, data analysis, statistics, technical writing and presentation.

Prerequisite(s): A minimum grade of "C" in ENGR 2112 and MENG 2139 and prior or concurrent enrollment in MENG 3531 or MENG 3521.

Cross Listing(s): MENG 5811.

MENG 5822G Research Project in Mechanical Engineering**2 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

This course is a one-on-one research experience for mechanical engineering students. It is the second special topics course in a sequence including MENG 5811G - Introduction to Mechanical Research and Projects. Emphasis is placed on project or experiment design, implementation, analysis, and reporting, culminating in a final presentation, and a research report or honors thesis. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): A minimum grade of "C" in MENG 3135 and MENG 3233 and MENG 3333 and MENG 3531 or MENG 3521 and previous or concurrent enrollment in MENG 4811 or permission of instructor.

Cross Listing(s): MENG 5822.

MENG 5890G Selected Topics in Mechanical Engineering**1-3 Credit Hours. 1-3 Lecture Hours. 1-2 Lab Hours.**

This course is scheduled on an infrequent basis to explore special areas in applied engineering. Graduate students will be required to complete a case study or research project not required of undergraduate students.

Prerequisite(s): Permission of department.

MENG 5891G Special Problems in Mechanical Engineering**1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

Individual and specialized study in the areas of mechanical engineering not otherwise covered in the students' curriculum. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): Graduate standing and identification of a problem or study area and permission of department.

Cross Listing(s): MENG 5891.

MENG 7136 Mechatronics I**3 Credit Hours. 0,2 Lecture Hours. 0,3 Lab Hours.**

This course is designed to build a working familiarity with the electronics and techniques needed in the design and control of electro-mechanical systems. The topics in this course include integrated use of mechanical, electrical, and computer systems for control of machines and devices, system modeling, sensors and actuators, basic electronics design, signal processing, grounding, and interfacing techniques.

Prerequisite(s): TMAE 5131 or TMAE 5132 or permission of department.

Cross Listing(s): TMAE 7136.

MENG 7137 Principles of Modeling and Simulation**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course provides an introduction to modeling and simulation techniques across diverse areas of engineering study for solutions of coupled physics, mechanics, chemistry, and even biological systems. The primary focus of the course will be on thermomechanical coupling, fluid and structure interaction, and electrical and thermal coupling analysis.

Prerequisite(s): MENG 5136 or permission of instructor.

MENG 7138 Mechatronics II**3 Credit Hours. 0,2 Lecture Hours. 0,3 Lab Hours.**

This course is designed to provide further fundamental information to understand the fusion of mechanical engineering, electrical engineering, and computer data acquisition/programming and their relationship to the field of Mechatronics. This course emphasizes the interfacing of microcomputers with sensors and actuators, hybrid (analog/digital) design, digital logic and analog circuitry, micro-computer architecture, assembly language programming, signal conditioning, filters, analog-to-digital and digital-to-analog conversion, and the interface of data acquisition systems with the control process.

Prerequisite(s): A minimum grade of "C" in MENG 7136 or permission of department.

Cross Listing(s): TMAE 7137.

MENG 7239 Intermediate Fluid Mechanics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, the basic equations for multidimensional flow fields with ideal fluids and compressible fluids are derived. Advanced topics in fluid mechanics, including potential flow, boundary layer flow, compressible flow, and open channel flow are presented. Analytical techniques for solving problems are presented.

Prerequisite(s): MATH 5530 or permission of department.

MENG 7431 Mechanics of Deformable Solids**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the fundamental mechanics of linear elasticity and elasto-plasticity, formulation and solution of simple static boundary value problems. Topics covered include constitutive equations for isotropic media, field equations for elastic solids, plane strain/plane stress and some classic analytical solutions, stress functions and potential methods.

Prerequisite(s): MENG 3331 and MATH 5530 or permission of department.

MENG 7432 Fracture Mechanics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to linear elastic and elastic-plastic fracture, their fundamental concepts and applications. Topics include microstructural effects on fracture, toughening mechanisms, crack growth resistance, interface fracture mechanics, fatigue damage, fatigue crack growth models and mechanisms.

Prerequisite(s): MATH 5530 and a minimum grade of "C" in ENGR 3233 or permission of department.

MENG 7530 Research in Mechanical Engineering**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of modern research methods and their application to the preparation of the thesis and technical reports.

Cross Listing(s): TMAE 7530.

MENG 7890 Selected Topics in Mechanical Engineering**1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

This course is scheduled on an infrequent basis to explore special areas of applied engineering.

Cross Listing(s): TMAE 7890.

MENG 7891 Special Problems in Mechanical Engineering**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Individual and specialized study in the areas of applied engineering not otherwise covered in the program. Students must submit a proposal of the special problem for approval by the faculty member of record. Credit will be assigned commensurate with the magnitude of the study.

Cross Listing(s): TMAE 7891.

MENG 7895 Independent Study**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent study is available for students to undertake individualized experimentation, research, study related to applied engineering, or a capstone project. The specific topic will be approved by a faculty member in the program, and credit will be assigned commensurate with the magnitude of the study.

Cross Listing(s): TMAE 7895.**MENG 7999 Thesis****1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course focuses on the preparation and completion of the thesis.

Cross Listing(s): TMAE 7999.

MFGE Manufacturing Engineering

MFGE 2132 Computational Fundamentals for Manufacturing Engineering**3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course covers the most widely used computational and mathematical topics in manufacturing engineering. It is intended to introduce students to selected calculus topics, linear algebra, numerical methods, and related fields that are most relevant for solving manufacturing problems.

Prerequisite(s): A minimum grade of "C" in MATH 2242.**MFGE 2142 Fundamentals of Engineering Mechanics****4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course provides an introductory survey of engineering statics, mechanics of materials, and dynamics as they apply to manufacturing engineering.

Prerequisite(s): A minimum grade of "C" in MATH 2242 and PHYS 2211K.**MFGE 2239 Engineering Modeling and Mathematical Analysis****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

An introduction to probability and distribution functions as they relate to component/system reliability and degradation, an applied overview of ordinary differential equations, and graphical/mathematical analysis, with an emphasis on manufacturing engineering applications such as design, process, reliability, uncertainty and risk assessment.

Prerequisite(s): A minimum grade of "C" in STAT 1401.**Corequisite(s):** MENG 2139.**MFGE 2421 Introduction to Additive Manufacturing Studio****2 Credit Hours. 0,2 Lecture Hours. 0,4 Lab Hours.**

Students will develop a working ability to use parametric solid modeling software. In addition to creating solid models, students will develop a basic proficiency in structures and thermal analysis software. They will also gain insight into rapid prototyping principles three dimensional design and printing in an applied project based setting. Students will gain exposure to additive manufacturing Digital Design to Manufacturing concepts. Students will learn to perform basic finite element analysis of solid models.

Prerequisite(s): A minimum grade of "C" in ENGR 1133 and MFGE 2142.**MFGE 2531 Materials Science Studio for Manufacturing Engineering****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course covers a broad range of engineering materials with an emphasis on application, use, and manufacturing processes. Students will develop an understanding of relationships between material properties, microstructure and manufacturing processing. Topics include atomic structure and arrangement; control of the microstructure and mechanical properties; solidification, phase diagrams, mechanical testing, strengthening mechanisms, thermosets and thermoplastics, introduction to composites, and selection of materials based upon manufacturing applications. Laboratory activities include studies of mechanical and/or metallurgical tests related to strengths, hardness, toughness, solidification, and metallography of materials with an emphasis on manufacturing processes and techniques.

Prerequisite(s): A minimum grade of "C" in CHEM 1212K or CHEM 1310.**MFGE 2533 Manufacturing Processing 2 Studio****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course covers theory and hands-on experiences with various forming processes such as casting, forging, extrusion, rolling and drawing. Students will gain insight into the theory of manufacturing processes and will develop competency through lab based hands-on practice and the processing constraints related to the design of products and systems.

Prerequisite(s): A minimum grade of "C" in MENG 1310 and MFGE 2531.**MFGE 2534 Applied Computing in Manufacturing Engineering****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course provides a survey introduction to programming logic and flowcharting, applications of the principles and techniques of computer numerically controlled machine tools (CNC). G and M code programming of Industrial machines, tooling systems, and an introduction to Computer Aided Manufacturing (CAM) systems will be covered. Manual hands on programming as well as interfacing with professional machining software such as MasterCAM or HSM Works will be incorporated. IT interfacing of components and systems will be introduced, as well as basic control devices such as PLCs.

Prerequisite(s): A minimum grade of "C" in ENGR 1133 and MENG 1310.**MFGE 3131 Design for Manufacturability, Assembly, Sustainability****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

A study and application of the principles that result in the integration of machine design, product design and process planning into one common activity with considerations given to assembly tolerances, fit, and clearance as well as whole-lifecycle usability, recyclability and sustainability. The goal is to design a product that is easily and economically manufactured. Also included is a study of coordinate measurement machines (CMM), machine design, metrology and design principles that contribute to enhanced sustainability.

Prerequisite(s): A minimum grade of "C" in MFGE 2533.**MFGE 3132 Quality and Statistical Process Control for Engineers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course focuses on the definition of Quality. Introduces students to proactive concepts of quality such as Six Sigma, QFD, FMEA, POKAYOKE, Ishikawa analysis and reactive methods used to ensure quality production through the measurement and maintenance of desired product characteristics in manufacturing processes such as control charts and sampling.

Prerequisite(s): A minimum grade of "C" in MFGE 2239.**MFGE 3337 Hydraulics and Electro-mechanical Systems****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

Exploration of the basic principles of fluidic (hydraulic and pneumatic) systems and electrical movers as they relate to manufacturing assembly processes and lines, and industrial robotics.

Prerequisite(s): A minimum grade of "C" in all of the following: ENGR 2131, MFGE 3541, prior or concurrent enrollment in MFGE 3421.

MFGE 3421 Industrial Controls and Networking Studio**2 Credit Hours. 0,2 Lecture Hours. 0,4 Lab Hours.**

This studio laboratory will cover the theory and practice of engineering measurements, measuring devices, and their application to controlled activities in an applied environment. The experimental activities will include the application of traditional measuring devices, development of data acquisition packages, and inner-connectivity and networking of sensors and programmable logic control (PLC) devices with an emphasis on robotics, automation, and manufacturing applications.

Prerequisite(s): Prior successful completion (with a minimum grade of "C") or concurrent enrollment in ENGR 2131.

MFGE 3423 Facilities Design**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The goal of this course is to impart an understanding of the basic principles of facilities location, layout, and material handling systems so as to design an efficient manufacturing/service facility. This will be enhanced through hands on practice in designing facilities. Facilities design issues that will be stressed upon will include modeling, design, and analysis techniques. It will try to provide a balance of exposure to available methodologies in facilities location, layout, and material handling with a practical emphasis, not just quantitative evaluation.

Prerequisite(s): A minimum grade of "C" in MFGE 2533.

MFGE 3531 Advanced Materials Processing**3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

Students will develop both a theoretical and hands-on appreciation for techniques working with plastics, ceramics, composites, nanomaterials, etc.

Prerequisite(s): A minimum grade of "C" in ENGR 1133 and MFGE 2142.

MFGE 3541 Energy Science Studio**4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

A survey of fluid mechanics, thermodynamics, and heat transfer with an emphasis placed upon manufacturing engineering. Fundamentals of fluid statics and fluid dynamics for incompressible fluids, fluid properties, static and dynamic forces, Bernoulli's equation, pipe flow and losses, open channel flow and flow measurement. Thermodynamic properties, state postulate, work interactions, steady-state and transient energy and mass conservation, entropy and the second law. First and Second Law analysis of thermodynamic systems. Gas cycles and vapor cycles. An introduction to basic energy transport by conduction, convection, and radiation with applications to heat exchanger, extended surfaces etc. The laboratory will provide both problem solving and hands on experimentation experiences that support the concepts covered in the lecture.

Prerequisite(s): A minimum grade of "C" in MATH 2242 and PHYS 2211K.

MFGE 4090 Special Topics in Manufacturing Engineering**1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

This course provides for study of Manufacturing Engineering course topics not generally offered by the program or offered on an introductory or trial basis.

Prerequisite(s): Permission of instructor and department chair.

MFGE 4091 Manufacturing Engineering Co-Op**1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

The student obtains practical work experience in the manufacturing engineering profession with a manufacturing company. May be repeated for credit when participating with the same industry employer. Requires prior department chair approval for course credit.

Prerequisite(s): Sophomore standing.

MFGE 4135 Lean MFG Principals and Engineering Project Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The planning, evaluation, deployment, and integration of lean manufacturing theory and methods. Emphasis on manufacturing processes/equipment and systems, e.g. planning/control, product design, supply chain, and human resource management, JIT, KANBAN, theory of constraints and quick response manufacturing. The course will also include principles of engineering economy that facilitate in the selection of appropriate engineering projects to maximize ROI.

Prerequisite(s): Prior successful completion (with a minimum grade of "C") or concurrent enrollment in MFGE 3132.

MFGE 4321 Manufacturing Engineering Capstone I**2 Credit Hours. 0,2 Lecture Hours. 0,4 Lab Hours.**

A capstone project based course that draws on all major curricular themes within the manufacturing engineering program. This course focuses on concurrent product design and development. Key areas include designing with constraints; brainstorming, problem solving, and creativity methods. Students will use design analysis tools, solid modeling, finite element analysis and supply chain management. Student will consider cell needs and limitations to design and develop a product and/or process for mass production in Manufacturing Engineering Capstone II (MFGE 4322).

Prerequisite(s): A minimum grade of "C" in all of the following: MFGE 3131, MFGE 3132, MFGE 3337, MFGE 3541.

MFGE 4322 Manufacturing Engineering Capstone II**2 Credit Hours. 0,2 Lecture Hours. 0,4 Lab Hours.**

A capstone project-based course that draws on all major curricular themes within the manufacturing engineering program. This course focuses on implementation and a production run of the product and/or process developed in MFGE 4321. The students will build and test the manufacturing cell to produce a discrete family of parts identified in MFGE 4321. The design of part transfer, tooling, sensing, production control, and integrated inspection systems will be emphasized.

Prerequisite(s): A minimum grade of "C" in MFGE 4321 and prior successful completion (with a minimum grade of "C") or concurrent enrollment in MFGE 4135 and MFGE 4533.

Corequisite(s): MFGE 4614.

MFGE 4533 Industrial Robotics and Automation**3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course will cover topics of the theory of the dynamic and kinematic models of industrial robot, robotic manufacturing operations such as welding and assembly and industrial robots working in unison or in concert in a manufacturing process. The laboratory activities include programming industrial robots to perform pick and place operations, to manipulate components, tools, and instruments through complex trajectories, programming PLCs to coordinate multiple manufacturing operations and programming computers to integrate the communications and information sharing between manufacturing and management systems.

Prerequisite(s): A minimum grade of "C" in all of the following: MFGE 2142, MFGE 3421, prior or concurrent enrollment in MFGE 3337.

MFGE 4614 Senior Seminar: Professional Skills and Leadership**1 Credit Hour. 0,2 Lecture Hours. 0 Lab Hours.**

Through readings, case studies, small group activities, discussions and guest speakers, students will explore and integrate professional skills relevant to their future careers. An emphasis will be placed upon engineering ethics, professional responsibilities, environmental impact of engineering processes, and technical leadership. a curricular overview that prepares students to take the Society of Manufacturing Engineers' Certification exam or similar.

Corequisite(s): MFGE 4322.

MFGE 4891 Special Problems in Manufacturing Engineering**1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

Individual and specialized study in the areas of manufacturing engineering that is not otherwise covered in the curriculum. Research project based or practicum experience.

Prerequisite(s): Permission of instructor and department chair.

MFGE 5131 Lean and Six Sigma 1**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This introductory course will emphasize communication using Six Sigma principles. It will help relate six sigma principles to the overall manufacturing mission and objectives. The Five step DMAIC model for organizational and process improvement will be emphasized. A wide range of process improvement techniques with the DMAIC model will be employed.

Prerequisite(s): A minimum grade of "C" in MFGE 3132.**Cross Listing(s):** MFGE 5131G.**MFGE 5132 Lean and Six Sigma 2****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Graphic and numerical tools to implement DMAIC procedure will be introduced. This includes introduction to Normal distribution, process capability analysis, measurement systems analysis, correlation and regression analysis, statistical process control, value stream mapping as well as the use of six sigma in service based industries.

Prerequisite(s): A minimum grade of "C" in MFGE 5131.**Cross Listing(s):** MFGE 5132G.**MFGE 5133 Advanced Engineering Project Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course presents the principles and techniques of managing engineering projects from the initiation phase, through planning, execution, control, and closeout. Topics include project selection, leadership, negotiations, team building, risk management, budgeting, scheduling, resource allocation, project control, and termination.

Prerequisite(s): A minimum grade of "C" in MFGE 3132 or permission of the instructor.**Cross Listing(s):** MFGE 5133G.**MFGE 5134 Reliability Engineering****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Reliability analysis with emphasis on the exponential, Weibull, gamma, log normal and extreme value distributions; system-level reliability, redundancy, maintainability, and availability.

Prerequisite(s): A minimum grade of "C" in MFGE 3132 or permission of the instructor.**Cross Listing(s):** MFGE 5134G.**MFGE 5135 Lean World Class Manufacturing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A comprehensive study of Lean Manufacturing Engineering technology and systems. Topics include key customer-focused, waste-reducing elements of Just-In-Time Production, Total Quality Control, Total Productive Maintenance, and Total Employee Involvement. Traditional manufacturing methods are contrasted with modern lean methods and the tools that facilitate their implementation. Students will study real world examples including quick-change tool designs, kanban systems, and factory layout conversions.

Prerequisite(s): A minimum grade of "C" in MFGE 2533 or MFGE 3531 or permission of the instructor.**Cross Listing(s):** MFGE 5135G.**MFGE 5230 International Manufacturing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of opportunities, issues, and problems involved in manufacturing products for import and export, and in dealing with global suppliers of materials, parts, and assemblies. Focus is on those aspects unique to the management of technical operations, such as ISO (International Organization for Standardization) quality standards, scheduling, and technology transfer. Additional topics may include transportation, customs documentation, global trends and trade policies, and cultural issues.

Prerequisite(s): A minimum grade of "C" in MFGE 3132 or permission of the instructor.**Cross Listing(s):** MFGE 5230G.**MFGE 5238 Facilities Maintenance****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

An advanced topic course in the area of scheduled and preventative maintenance of automated manufacturing systems.

Prerequisite(s): A minimum grade of "C" in MFGE 3337 and MFGE 3423 and MFGE 4533.**Cross Listing(s):** MFGE 5238G.**MFGE 5331 Advanced Robotics for Manufacturing****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course provides an introduction to fundamental concepts in the use of spatial robotic manipulators with emphasis on industrial robotics. Students study robot manipulator kinematics, dynamics, and control. The theory of spatial kinematics and dynamics of robot manipulators is studied in depth. Advanced control strategies such as force control and compliance control are also investigated. Topics are augmented using computer graphics tools and laboratory experiments with robot manipulators with emphasis on application to manufacturing.

Prerequisite(s): Completion of MFGE 4533.**Cross Listing(s):** MFGE 5331G.**MFGE 5332 Manufacturing Floor Control****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course will review relevant concepts and techniques to control the flow of materials and information as well as the motion of automated devices on the manufacturing floor. This includes relevant concepts on automation, machine motion control, warehousing, MRP and WIP control in production systems among others.

Prerequisite(s): MFGE 3421 and MFGE 4533.**Cross Listing(s):** MFGE 5332G.**MFGE 5333 Additive Manufacturing Studio****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

A comprehensive overview of additive manufacturing, spanning from fundamentals to applications and technology trends. Students will learn the principles of additive manufacturing of polymers, metals, and ceramics and how process capabilities (rate, cost, quality) are determined by the material characteristics, process parameters, and machine designs.

Prerequisite(s): A minimum grade of "C" in MFGE 2421 and MFGE 3131 or a minimum grade of "C" in ENGR 2112 and MENG 3135 and MENG 3333.**Cross Listing(s):** MFGE 5333G.**MFGE 5334 Additive Manufacturing of Lightweight Structures****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course concentrates on the design, optimization, manufacturing, and performance testing of lightweight structures fabricated by additive manufacturing technologies. The general guidelines of functional design and topology optimization will be introduced. Additive manufacturing methodologies will be instructed and accommodated to design fabrication. Students will be grouped in teams to complete an assigned project of evaluating the mechanical and material performance of self-designed lightweight structures.

Prerequisite(s): A minimum grade of "C" in MFGE 5333.**Cross Listing(s):** MFGE 5334G.**MFGE 5335 Machine Vision****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

An introduction to vision-based control of industrial robots and autonomous vehicles with applications in Fanuc iRvision and Cognex vision systems. Students will get hands-on experience in setting up and running vision processes including camera setup, inspection vision processes, setup of tool and offset frames, 2D calibration, 2D single-view and multiple-view vision processes, model learning, integration of vision processes in manufacturing processes and vision servoing. Students will learn computer image processing using MATLAB and/or LabView software with Machine Vision Toolbox.

Prerequisite(s): A minimum grade of "C" in MFGE 4533.**Cross Listing(s):** MFGE 5335G.

MFGE 5336 Smart and Sustainable Manufacturing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course will cover fundamental concepts on the smart and sustainable manufacturing systems and methods. A review of 4th industrial revolution (Industry 4.0) and smart manufacturing will be presented which includes the fundamentals of wireless communications and data transferring. These concepts are related to smart manufacturing systems. Furthermore, sustainability of the materials and manufacturing processes will be discussed with the focus on design, manufacturing and operation in sustainable methodology.

Prerequisite(s): A minimum grade of "C" in MFGE 3131.

Cross Listing(s): MFGE 5336G.

MFGE 5338 Industrial Hygiene and Ergonomics
3 Credit Hours. 0,3 Lecture Hours. 0,1 Lab Hours.

A study of the techniques used by health and safety professionals to anticipate, recognize, evaluate, and control those environmental factors or stresses arising in or from the workplace that adversely affect an employees' health, comfort, and performance. Ergonomic tools and work area design and work procedures are emphasized. Regulatory agencies, compliance, and program management issues are discussed.

Prerequisite(s): A minimum grade of "C" in CHEM 1310 or permission of the instructor.

Cross Listing(s): MFGE 5338G.

MFGE 5339 Manufacturing Standards and Standardization
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Basic knowledge of manufacturing system, standardization, mass production, and major types, structure, and database of standards. Emphasize the applications of ANSI/ISO standards in the field of materials manufacturing and robotics. Advanced knowledge about the development of standards will be pursued through case studies.

Prerequisite(s): A minimum grade of "C" in MFGE 2534 or permission of the instructor.

Cross Listing(s): MFGE 5339G.

MFGE 5531 Advanced CNC Machining and Programming
3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

Advanced Computer Numerical Control (CNC) course includes a range of advanced manufacturing technology such as CNC set-up and programming, use of CAD/CAM software for tool planning, multi-axis machining, CNC Coordinate Measuring Machines (CMM), and concepts of Computer-Integrated Manufacturing (CIM). This course will include CNC lathe, milling, and extend to 5-axis milling machine demonstration and utilization with lab experience. The course activities and design give emphasis to the development of skills and knowledge competence prescribed by industry performance standards.

Prerequisite(s): MFGE 2534.

Cross Listing(s): MFGE 5531G.

MFGE 5532 Introduction to MEMS

3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course is designed to study fabrication techniques and operating principles of micro-electro-mechanical devices and systems and their applications. Microfabrication techniques and other emerging fabrication processes for MEMS are studied along with their process physics. Principles of operations of various MEMS devices such as mechanical, optical, thermal, magnetic, chemical/biological sensors/actuators are studied. Topics include: bulk/surface micromachining, microsensors and microactuators mechanisms.

Prerequisite(s): MFGE 3531.

Cross Listing(s): MFGE 5532G.

MFGE 5533 Heat Treatment and Microstructure of Metal
3 Credit Hours. 0,2 Lecture Hours. 0,3 Lab Hours.

This course will provide an in-depth explanation of microstructural development during the heat treatment and thermo-mechanical processing of steels. Topics included: quantitative metallography, the Fe-C Phase diagram, transformation upon heating/cooling, homogenization, grain size control, diffusion, and effects of alloy additions. The selection of proper heat treatments to facilitate fabrication and to yield required service properties in steels suitable for various applications is considered.

Prerequisite(s): A minimum grade of "C" in MFGE 2531.

Cross Listing(s): MFGE 5533G.

MFGE 5534 Packaging

3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course will introduce functions of packaging and its fundamental characteristics; materials, processes, and technology used in package development; applications of various materials and systems used to package manufactured products.

Prerequisite(s): A minimum grade of "C" in MENG 5138 and MFGE 3531.

Cross Listing(s): MFGE 5534G.

MFGE 5535 NanoManufacturing

3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course provides a survey introduction of nanoscience and technologies of micro-fabrication and nano-manufacturing.

Prerequisite(s): A minimum grade of "C" in MFGE 3531 and MENG 5138.

Cross Listing(s): MFGE 5535G.

MFGE 5536 Characterization of Advanced Manufacturing Materials
3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course will introduce the basic characterization principles of advanced manufacturing materials and the common characterization techniques available. The course covers microstructure, defects, crystal structure, crystallography, texture development and phase analysis. Applications and limitations of microscopic-based techniques and their ancillary equipment namely, Optical Microscopy, Scanning Electron Microscopy, and Scanning Probe Microscopy are described. The principles of other important characterization equipment such as x-ray diffraction are described.

Prerequisite(s): A minimum grade of "C" in MFGE 3132.

Cross Listing(s): MFGE 5536G.

MFGE 5537 Design for Environment and Green Manufacturing
3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course will provide the student with systematic approaches for designing and developing environmentally responsible products. In particular, design trade-offs will be explored, including those arising in materials life cycle and design, manufacturing processes and end-of-life scenarios. Life cycle assessment is introduced as a quantifying approach for assessment.

Prerequisite(s): MFGE 3131 and MFGE 3132.

Cross Listing(s): MFGE 5537G.

MFGE 5538 Nondestructive Testing and Evaluation Techniques
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Principles of five basic NDE methods and their application in engineering inspections. Materials behavior and simple failure analysis. NDE reliability, and damage-tolerant design. Advanced methods such as acoustic microscopy, laser ultrasonic, thermal waves, computed tomography, and thermoelectrics are analyzed. Practical problem solving and simulation on all basic methods: ultrasonic, eddy currents, x-ray, liquid penetrants, magnetic testing, and visual inspection are performed.

Prerequisite(s): A minimum grade of "C" in MFGE 3531.

Cross Listing(s): MFGE 5538G.

MFGE 5131G Lean and Six Sigma Green Belt-1
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This introductory course will emphasize communication using Six Sigma principles. It will help relate six sigma principles to the overall business mission and objectives. The Five step DMAIC model for organizational and process improvement will be emphasized. A wide range of process improvement techniques with the DMAIC model will be employed. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in MFGE 3132 or permission of the instructor for graduate students.

Cross Listing(s): MFGE 5131.

MFGE 5132G Lean and Six Sigma Green Belt-2
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Graphic and numerical tools to implement DMAIC procedure will be introduced. This includes introduction to Normal distribution, process capability analysis, measurement systems analysis, correlation and regression analysis, statistical process control, value stream mapping as well as the use of six sigma in service based industries. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in MFGE 5131 or MFGE 5131G.

Cross Listing(s): MFGE 5132.

MFGE 5133G Advanced Engineering Project Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course presents the principles and techniques of managing engineering projects from the initiation phase, through planning, execution, control, and closeout. Topics include project selection, leadership, negotiations, team building, risk management, budgeting, scheduling, resource allocation, project control, and termination. Graduate students will be required to complete additional assignments and/or a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in MFGE 3132 or permission of the instructor.

Cross Listing(s): MFGE 5133.

MFGE 5134G Reliability Engineering

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Reliability analysis with emphasis on the exponential, Weibull, gamma, log normal and extreme value distributions; system-level reliability, redundancy, maintainability, and availability. Graduate students will be required to complete additional assignments and/or a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in MFGE 3132 or permission of the instructor.

Cross Listing(s): MFGE 5134.

MFGE 5135G Lean World Class Manufacturing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A comprehensive study of Lean Manufacturing Engineering technology and systems. Topics include key customer-focused, waste-reducing elements of Just-In-Time Production, Total Quality Control, Total Productive Maintenance, and Total Employee Involvement. Traditional manufacturing methods are contrasted with modern lean methods and the tools that facilitate their implementation. Students will study real world examples including quick-change tool designs, kanban systems, and factory layout conversions. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MFGE 2533 or MFGE 3531 or permission of the instructor.

Cross Listing(s): MFGE 5135.

MFGE 5230G International Manufacturing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of opportunities, issues, and problems involved in manufacturing products for import and export, and in dealing with global suppliers of materials, parts, and assemblies. Focus is on those aspects unique to the management of technical operations, such as ISO (International Organization for Standardization) quality standards, scheduling, and technology transfer. Additional topics may include transportation, customs documentation, global trends and trade policies, and cultural issues. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate-level work, as determined by the instructor. The performance of students will be assessed based on assignments, projects, and midterm and final exams.

Prerequisite(s): A minimum grade of "C" in MFGE 3132 or permission of the instructor.

Cross Listing(s): MFGE 5230.

MFGE 5238G Facilities Maintenance

3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

An advanced topic course in the area of scheduled and preventative maintenance of automated manufacturing systems. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in MFGE 3337 and MFGE 3423 and MFGE 4533 or permission of instructor for graduate students.

Cross Listing(s): MFGE 5238.

MFGE 5331G Advanced Robotics for Manufacturing

3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course provides an introduction to fundamental concepts in the use of spatial robotic manipulators with emphasis on industrial robotics. Students study robot manipulator kinematics, dynamics, and control. The theory of spatial kinematics and dynamics of robot manipulators is studied in depth. Advanced control strategies such as force control and compliance control are also investigated. Topics are augmented using computer graphics tools and laboratory experiments with robot manipulators with emphasis on application to manufacturing. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): Completion of MFGE 4533.

Cross Listing(s): MFGE 5331.

MFGE 5332G Manufacturing Floor Control

3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course will review relevant concepts and techniques to control the flow of materials and information as well as the motion of automated devices on the manufacturing floor. This includes relevant concepts on automation, machine motion control, warehousing, MRP and WIP control in production systems among others. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): MFGE 3421 and MFGE 4533.

Cross Listing(s): MFGE 5332.

MFGE 5333G Additive Manufacturing Studio
3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

A comprehensive overview of additive manufacturing, spanning from fundamentals to applications and technology trends. Students will learn the principles of additive manufacturing of polymers, metals, and ceramics and how process capabilities (rate, cost, quality) are determined by the material characteristics, process parameters, and machine designs. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor and graded using a rubric assessment tool.

Prerequisite(s): A minimum grade of "C" in MFGE 2421 and MFGE 3131, or a minimum grade of "C" in ENGR 2112 and MENG 3135 and MENG 3333, or permission of instructor for graduate students.

Cross Listing(s): MFGE 5333.

MFGE 5334G Additive Manufacturing of Lightweight Structures
3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

This course concentrates on the design, optimization, manufacturing, and performance testing of lightweight structures fabricated by additive manufacturing technologies. The general guidelines of functional design and topology optimization will be introduced. Additive manufacturing methodologies will be instructed and accommodated to design fabrication. Students will be grouped in teams to complete an assigned project of evaluating the mechanical and material performance of self-designed lightweight structures. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor and graded using a rubric assessment tool.

Prerequisite(s): A minimum grade of "C" in MFGE 5333 or permission of instructor.

Cross Listing(s): MFGE 5334.

MFGE 5335G Machine Vision

3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

An introduction to vision-based control of industrial robots and autonomous vehicles with applications in Fanuc iRVision and Cognex vision systems. Students will get hands-on experience in setting up and running vision processes including camera setup, inspection vision processes, setup of tool and offset frames, 2D calibration, 2D single-view and multiple-view vision processes, model learning, integration of vision processes in manufacturing processes and vision servoing. Students will learn computer image processing using MATLAB and/or LabView software with Machine Vision Toolbox. Graduate students will be required to complete additional assignments and a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in MFGE 4533 or Permission of Instructor.

Cross Listing(s): MFGE 5335.

MFGE 5336G Smart and Sustainable Manufacturing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course will cover fundamental concepts on the smart and sustainable manufacturing systems and methods. A review of 4th industrial revolution (Industry 4.0) and smart manufacturing will be presented which includes the fundamentals of wireless communications and data transferring. These concepts are related to smart manufacturing systems. Furthermore, sustainability of the materials and manufacturing processes will be discussed with the focus on design, manufacturing and operation in sustainable methodology. Graduate students will be required to complete additional assignments and/or a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in MFGE 3131 or Permission of the instructor.

Cross Listing(s): MFGE 5336.

MFGE 5338G Industrial Hygiene and Ergonomics
3 Credit Hours. 0,3 Lecture Hours. 0,1 Lab Hours.

A study of the techniques used by health and safety professionals to anticipate, recognize, evaluate, and control those environmental factors or stresses arising in or from the workplace that adversely affect an employees' health, comfort, and performance. Ergonomic tools and work area design and work procedures are emphasized. Regulatory agencies, compliance, and program management issues are discussed. Graduate students are required to complete an advanced level assignment in addition to all undergraduate course requirements. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate-level work, as determined by the instructor. The performance of students will be assessed based on assignments, projects, and midterm and final exams.

Prerequisite(s): A minimum grade of "C" in CHEM 1310 or permission of the instructor.

Cross Listing(s): MFGE 5338.

MFGE 5339G Manufacturing Standards and Standardization
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Basic knowledge of manufacturing system, standardization, mass production, and major types, structure, and database of standards. Emphasize on the applications of ANSI/ISO standards in the field of materials manufacturing and robotics. Advanced knowledge about the development of standards will be pursued through case study. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate-level work, as determined by the instructor. The performance of students will be assessed based on assignments, projects, and midterm and final exams.

Prerequisite(s): A minimum grade of "C" in MFGE 2534 or permission of the instructor.

Cross Listing(s): MFGE 5339.

MFGE 5531G Advanced CNC Machining and Programming
3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.

Advanced Computer Numerical Control (CNC) course includes a range of advanced manufacturing technology such as CNC set-up and programming, use of CAD/CAM software for tool planning, multi-axis machining, CNC Coordinate Measuring Machines (CMM), and concepts of Computer-Integrated Manufacturing (CIM). This course will include CNC lathe, milling, and extend to 5-axis milling machine demonstration and utilization with lab experience. The course activities and design give emphasis to the development of skills and knowledge competence prescribed by industry performance standards. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): MFGE 2534.

Cross Listing(s): MFGE 5531.

MFGE 5532G Introduction to MEMS**3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course is designed to study fabrication techniques and operating principles of micro-electro-mechanical devices and systems and their applications. Microfabrication techniques and other emerging fabrication processes for MEMS are studied along with their process physics. Principles of operations of various MEMS devices such as mechanical, optical, thermal, magnetic, chemical/biological sensors/actuators are studied. Topics include: bulk/surface micromachining, microsensors and microactuators mechanisms. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): MFGE 3531.**Cross Listing(s):** MFGE 5532.**MFGE 5533G Heat Treatment and Microstructure of Metal****3 Credit Hours. 0,2 Lecture Hours. 0,3 Lab Hours.**

This course will provide an in-depth explanation of microstructural development during the heat treatment and thermo-mechanical processing of steels. Topics included: quantitative metallography, the Fe-C Phase diagram, transformation upon heating/cooling, homogenization, grain size control, diffusion, and effects of alloy additions. The selection of proper heat treatments to facilitate fabrication and to yield required service properties in steels suitable for various applications is considered. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor, and graded using a rubric assessment tool.

Prerequisite(s): A minimum grade of "C" in MFGE 2531 or Permission of the Instructor.**Cross Listing(s):** MFGE 5533.**MFGE 5534G Packaging****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course will introduce functions of packaging and its fundamental characteristics; materials, processes, and technology used in package development; applications of various materials and systems used to package manufactured products. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in MENG 5138 and MFGE 3531 or permission of the instructor for graduate students.**MFGE 5535G NanoManufacturing****3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course provides a survey introduction of nano-science and technologies of micro-fabrication and nano-manufacturing. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in MFGE 3531 and MENG 5138 or permission of the instructor for graduate students.**Cross Listing(s):** MFGE 5535.**MFGE 5536G Characterization of Advanced Manufacturing Materials****3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course will introduce the basic characterization principles of advanced manufacturing materials and the common characterization techniques available. The course covers microstructure, defects, crystal structure, crystallography, texture development and phase analysis. Applications and limitations of microscopic-based techniques and their ancillary equipment namely, Optical Microscopy, Scanning Electron Microscopy, and Scanning Probe Microscopy are described. The principles of other important characterization equipment such as x-ray diffraction are described. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): A minimum grade of "C" in MFGE 3132.**Cross Listing(s):** MFGE 5536.**MFGE 5537G Design for Environment and Green Manufacturing****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course will provide the student with systematic approaches for designing and developing environmentally responsible products. In particular, design trade-offs will be explored, including those arising in materials life cycle and design, manufacturing processes and end-of-life scenarios. Life cycle assessment is introduced as a quantifying approach for assessment. Graduate students will be expected to independently research an additional topic, write a summary report, and present their findings to the class.

Prerequisite(s): MFGE 3131 and MFGE 3132.**Cross Listing(s):** MFGE 5537.**MFGE 5538G Nondestructive Testing and Evaluation Techniques****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Principles of five basic NDE methods and their application in engineering inspections. Materials behavior and simple failure analysis. NDE reliability, and damage-tolerant design. Advanced methods such as acoustic microscopy, laser ultrasonic, thermal waves, computed tomography, and thermoelectrics are analyzed. Practical problem solving and simulation on all basic methods: ultrasonic, eddy currents, x-ray, liquid penetrants, magnetic testing, and visual inspection are performed. Graduate students will be required to complete additional assignments and/or a culminating research project commensurate with graduate level work that is not required of undergraduate students.

Prerequisite(s): A minimum grade of "C" in MFGE 3531 or Permission of the Instructor.**Cross Listing(s):** MFGE 5538.**MFGE 7331 Manufacturing System Design and Analysis****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

This course is about contemporary design and analysis methodologies used to organize systems for the economic manufacture of products.

Students will be exposed to the techniques used to design and analyze manufacturing systems for the economic manufacture of products.

Students also will learn to design manufacturing systems (both human and automated) to satisfy different types of product demand.

Prerequisite(s): MFGE 5332.**MFGE 7332 Advanced Additive Manufacturing****3 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

Advanced Additive Manufacturing course builds upon knowledge of the state-of-art additive manufacturing (AM) technologies and surveys the novel techniques applied for AM or 3D printing. Innovative AM research outcomes and presentation will be collected from the journal publications and conference proceedings, and then lectured to students along with discussions. Case studies of AM application to the manufacturing process will be talked. Student will work in collaboration with classmates to summarize a specified utilization of AM to improve manufacturing efficiency and economy, and to propose a potential application of the existing or novel AM technologies.

Prerequisite(s): MFGE 5334.**MFGE 7430 Industrial Case Study Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The systems approach and case study format are utilized for the resolution of current technical management problems of various industries. Problem solving methods are presented, discussed, and utilized in student activities.

Prerequisite(s): A minimum grade of "C" in MFGE 4322 or permission of the instructor.**MFGE 7530 Research in Applied Engineering****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of modern research methods and their application to the preparation of the thesis and technical reports.

MFGE 7991 Advanced Manufacturing Engineering Practicum
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

In this course the student is fully engaged on-site at a manufacturing location of a partnering organization. Advanced Manufacturing Engineering work scope assignment(s) for the company is discussed/agreed to ahead of time in cooperation with the partnering organization and requires prior approval from the department to begin the course. Reporting of progress throughout the semester by the student occurs for course including mid-term report, a term paper report due at end of the semester, and a presentation to company stakeholders.

Prerequisite(s): Graduate standing in AME Program.

MGED Middle Grades Education

MGED 3131 Nature and Curriculum Needs of the Middle Grades Learner

3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.

Examines the curriculum, instruction and organization of middle grades schools. Provides a substantial knowledge base in the nature and needs of early adolescents, as well as, in middle school curriculum and instruction. The course also includes a field component.

Prerequisite(s): Admission to Teacher Education.

Corequisite(s): MSED 5333.

MGED 3232 Methods of Teaching Science in the Middle Grades
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

Provides an overview of the basic program of science instruction in the middle grades. Research in science education, teaching techniques and methods applicable for this age level, and organization of lessons are studied. Emphasis will be placed on science concepts and principles, an application of concepts to real life situations, science and technology and the development and implementation of hands-on activities. Includes a field based component which requires planning and teaching a science unit in a middle school classroom.

Prerequisite(s): A minimum grade of "C" in MGED 3131 and MSED 5333, and admission to Teacher Education Program.

MGED 3332 Methods of Teaching Language Arts in the Middle Grades

3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

Designed to study current trends for integrating language arts across the curriculum in the middle school setting. Emphasis is placed on the natural connections between writing, reading and oral expression. Instructional strategies that link writing, reading, literature and language across the curriculum will be explored. Appropriate language arts curriculum, including content and pedagogy, for early adolescents will be addressed. Students will plan and teach a language arts unit in a middle school classroom.

Prerequisite(s): A minimum grade of "C" in all of the following: MGED 3131 and MSED 5333, and Admission to Teacher Education Program.

MGED 3432 Methods of Teaching Social Studies in the Middle Grades

3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

A study of the role of social studies in the education of early adolescents, with emphasis on understanding the historical and philosophical foundations of social studies, curriculum organization, planning and evaluation of instruction, social studies techniques and materials appropriate for early adolescent learners and current trends in social studies. Students will plan and teach a social studies unit in a middle school classroom.

Prerequisite(s): A minimum grade of "C" in all of the following: MGED 3131 and MSED 5333; and Admission to Teacher Education Program.

MGED 3532 Methods of Teaching Mathematics in the Middle Grades

3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

A study of teaching methods and materials, curriculum content, assessment strategies, and trends in middle grade mathematics. A field based component which requires planning and teaching a mathematics unit in a middle grade classroom is required.

Prerequisite(s): A minimum grade of "C" in MGED 3131 and MSED 5333 and admission to Teacher Education Program.

MGED 3731 Middle School Practicum I

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This practicum involves structured observations, as well as planning and teaching an instructional unit in a middle grades classroom from one selected content area: language arts, social studies, math, and science. Emphasis is placed on classroom management, instructional strategies for diverse populations of students, the integration of technology, classroom environment, and assessment of student learning.

Prerequisite(s): A minimum grade of "C" in all of the following: MGED 3131 and MSED 5333; and Admission to Teacher Education Program.

MGED 3732 Middle School Practicum II

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This practicum involves structured observations, as well as planning and teaching instructional strategies for diverse populations of students, the integration of technology, and assessment of student learning.

Prerequisite(s): A minimum grade of "C" in all of the following: MGED 3131, MSED 5333 and SPED 3332; and Admission to Teacher Education Program.

MGED 4632 Seminar in Middle Grades Education

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed as a culminating activity for middle grades students to apply educational theory and research to their classroom practice. Emphasis is placed on analysis of student learning and teaching effectiveness through development of a portfolio that documents and reflects on planning, assessment and instruction in the middle grades classroom.

Prerequisite(s): A minimum grade of "C" in MGED 3232 or MGED 3332 or MGED 3432 or MGED 3532.

Corequisite(s): MGED 5799.

MGED 5799 Student Teaching in Middle Grades Education

9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A period of guided teaching during which the candidate, under the direction of a clinical supervisor, takes increasing responsibility for leading the school experiences of a given group of learners over a period of consecutive weeks and engages more or less directly in many of the activities which constitute the wide range of a teacher's assigned responsibilities.

Prerequisite(s): Completion of the teaching field and professional education courses and admission to the Student Teaching Program.

Corequisite(s): MGED 4632.

Cross Listing(s): MGED 5799G.

MGED 5799G Student Teaching in Middle Grades Education

9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A period of guided teaching during which the candidate, under the direction of a clinical supervisor, takes increasing responsibility for leading the school experiences of a given group of learners over a period of consecutive weeks and engages more or less directly in many of the activities which constitute the wide range of a teacher's assigned responsibilities.

Prerequisite(s): Completion of the teaching field and professional education courses and admission to the Student Teaching Program.

Corequisite(s): MSED 7635.

Cross Listing(s): MGED 5799.

MGED 6738 Supervised Practicum in the Middle Grades
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A supervised teaching experience in grades 4-8. Candidates will plan and teach in one's specific teaching field(s) and grade levels for which they are being certified. Emphasis is placed on instructional planning, effective instruction, classroom management, and student evaluation.

Prerequisite(s): A minimum grade of "C" in MSED 6120.

MGED 6739 Supervised Internship II: Middle Grades
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This supervised practicum course is designed for M.A.T. candidates who are employed full time in an approved teaching position. It provides a supervised teaching experience in an appropriate grade level and school setting for the candidate's teaching field. Candidates will plan and teach in the specific teaching field(s) and grade levels for which one is being certified. Emphasis is placed on instructional planning, classroom management, and student evaluation.

Prerequisite(s): A minimum grade of "C" in MSED 6120; admission to Teacher Education Program.

Corequisite(s): MSED 6131. Candidates must hold a valid non-renewable teaching certificate and be currently employed in grades 4-8 and teaching in the teaching field(s) for which one is being certified.

MGED 6750 Graduate Internship
3 Credit Hours. 0 Lecture Hours. 3 Lab Hours.**MGED 6799 Supervised Internship: Middle Grades**
1-12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A fifteen-week supervised teaching experience in the specific teaching field(s) and grade levels for which one is being certified. Candidates seeking initial certification in middle grades will complete the internship in order to be eligible for initial certification.

Prerequisite(s): Admission to Teacher Education program.

Corequisite(s): MSED 6131.

MGED 8132 Effective Middle Schools
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of student development concepts, school structures and practices, and important teaching and learning strategies associated with effective middle level schools. Emphasis is placed upon the relationships that exist between student development, school organization and practice and strategies for supporting effective learning and interaction among diverse learners. The course includes field-based action research, participation in learning teams, and development of significant portfolio evidence of successful interaction with the course content and other learning team members. Some components will typically be network based.

MGMS Valdosta State Franchise

MGMS 5180 Mathematics for Middle School Teachers
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**MGMS 7000 Professional Development Seminar**
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

The self-assessment of individual student understanding and application of master teacher outcomes. Provides the basis for an individual program of study based on individual needs.

MGMS 7100 Research Methodology in Education
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides a study of methods used to conduct educational and educationally-related research and includes critical analysis of selected research articles and research design. Emphasized is the ability to use research and research methods to improve practices in educational and educationally-related settings.

MGMS 7240 Instructional Leadership, Curriculum
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**MGMS 7401 Chem, Erth Sci, Astr Mid Grade**
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An integrated math and science course with special emphasis on an understanding of chemical processes related to earth science and astronomy, including a study of physical chemistry, earth processes, and the chemical evolution of the universe.

MGMS 7650 Teaching Practicum
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Teaching Practicum.

MGNT Management

MGNT 3130 Principles of Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides an overview of the management function, with emphasis on managerial planning, organizing, leading, and controlling.

Prerequisite(s): A minimum grade of "C" in ECON 2106.

MGNT 3134 Behavior in Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An advanced course that examines the determinants and consequences of human behavior in formal organizations. Specific focus is on the individual, interpersonal, and group processes which underlie Organizational Behavior.

Prerequisite(s): A minimum grade of "C" in MGNT 3130.

MGNT 3234 Fundamentals of Entrepreneurship
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course surveys the fundamentals of entrepreneurship theory and practice. The basics of opportunity identification, evaluation, and exploitation as they relate to lean start up techniques, business modelling, and different types of entrepreneurship will be covered. As part of the course, students will develop original business ideas, conduct market research on the desirability, feasibility, and usability of their ideas, develop prototypes and business models around their ideas, and seek external feedback and validation for all of these considerations. Special emphases will also be placed on creativity, experimentation, reflection, and team building as ways to improve the efficiency and effectiveness of these efforts.

Prerequisite(s): Junior standing.

MGNT 3235 Leadership in Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Leadership and management are distinctly-different phenomena; to do either well requires distinctly-different skills. This course builds a bridge between the literature of leadership and its practical application. Though non-exhaustive, we explore leadership from four, broad perspectives: effective leader behaviors, the role of power and influence, the impact of situational moderators, and essential skill sets.

Prerequisite(s): A minimum grade of "C" in MGNT 3130.

MGNT 3334 Human Resource Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey course of the fundamentals of human resource management in organizations. The basics of Human Resource Management, systems, policies, and practices relative to functional areas such as workforce planning, employment, compensation and benefits, employee and labor relations, occupational health, safety and security will be covered. COBA students must earn a "C" or better in this class. Students with declared majors in other fields must have completed a minimum of 60 semester hours.

Prerequisite(s): Prior or concurrent enrollment in and a minimum grade of "C" in MGNT 3130.

MGNT 4030 Special Topics in Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A customized course that allows students to pursue further study in a specific management topic at the frontier of an area of research or a contemporary topic related to current real-world events.

Prerequisite(s): A minimum grade of "C" in MGNT 3130.

MGNT 4230 International Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an appreciation for and an understanding of the operations of the multinational firm. Prevailing management practices of selected international companies are studied in-depth. A semester long project with a cultural focus is required.

Prerequisite(s): A minimum grade of "C" in MGNT 3130.**MGNT 4234 Intermediate Entrepreneurship****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course offers the intermediate entrepreneurship student a detailed understanding of business model development in the context of a new venture. Venture start-up and management strategies for value creation in a growing new venture will be highlighted.

Prerequisite(s): A minimum grade of "C" in MGNT 3234 and Junior standing.**MGNT 4235 New Venture Finance****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course emphasizes the financial aspects of an entrepreneurial venture. Topics include revenue forecasting, financial projections, sources of funding and evaluation of funding proposals, valuation, and exit strategies.

Prerequisite(s): A minimum grade of "C" in MGNT 3234 and prior or concurrent enrollment in MGNT 4234.**MGNT 4236 Entrepreneurship and Innovation Capstone****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This integrative course builds on and extends the knowledge acquired across all curricula in the emphasis. Students should demonstrate relative mastery in: carrying out systematic searches for exploitable ideas; evaluating the wealth-generating potential of commercializable ideas; performing viability assessments of emergent ventures; drafting business plans.

Prerequisite(s): A minimum grade of "C" in all of the following: MGNT 3234, MGNT 4234, and MGNT 4235 and Senior standing.**MGNT 4332 Compensation and Benefits****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to provide the knowledge and skills required to design and implement comprehensive compensation and benefit systems. Topics include the development of compensation strategy, internal pay structures, the role of job analysis and performance evaluation, the rewarding individuals and groups, and administration of employee benefits.

Prerequisite(s): A minimum grade of "C" in BUSA 3131, MGNT 3130, MGNT 3334.**MGNT 4333 Human Resource Information Systems****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of how human resource information systems are applied in organizations to support organizational strategy, improve efficiency and flexibility, increase productivity and performance, and ensure compliance with employment law. The focus will be on merging computer technology with a strategic human resource management perspective.

Prerequisite(s): A minimum grade of "C" in MGNT 3334.**Cross Listing(s):** CISM 4333.**MGNT 4334 Employment Law and Legislative Compliance****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the current issues in the work environment related to the job selection process, equal employment opportunity, and the rights of workers on the market.

Prerequisite(s): A minimum grade of "C" in MGNT 3130.**Cross Listing(s):** LSTD 4334.**MGNT 4335 Labor Relations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the history and the functions of labor organizations with reference to such areas as trade unions and public policy; the structure, government, and objectives of trade unions; the collective bargaining process; and the labor market.

Prerequisite(s): A minimum grade of "C" in MGNT 3130.**MGNT 4338 Staffing, Training, and Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of human resources planning, recruiting, and selection followed by a detailed investigation of training programs, evaluation of training, and personnel development.

Prerequisite(s): A minimum grade of "C" in MGNT 3130 and MGNT 3334.**MGNT 4790 Internship in Management****3-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised work-study program in selected business firms throughout the southeast. Any student enrolled in the internship program will be required to work for one full semester.

Prerequisite(s): Junior standing and at least one upper division course in the major. Good academic standing (minimum cumulative GPA is 2.0). Or by permission of the Department Chair.**MGNT 4830 Special Problems in Management****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

A customized course that is under the direction of a faculty sponsor. This course is designed to offer students an opportunity to pursue studies at a level or on topics not covered in scheduled courses. The scope and nature of the material covered is determined in consultation with the faculty sponsor.

Prerequisite(s): A minimum grade of "C" in MGNT 3130 and permission of instructor.**MGNT 4890 Directed Study in Management****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed for independent study and research in selected areas of management under faculty supervision.

MGNT 7333 Social Issues in Business**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Overview of the impact of social issues on managerial decision making. Examines the role of the businessperson in modern society. Considers business and society responsibility, pollution, employment discrimination, affirmative action, sexual harassment, consumerism, business and professional ethics, and the social responsibilities of multinational corporations.

Prerequisite(s): Prior or concurrent enrollment with a minimum grade of "C" in MBA 7630.**MGNT 7335 Entrepreneurship****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the business formation process that focuses on the creativity, risk-taking, and planning associated with new ventures. Provides information on the entrepreneurial process starting with idea generation, idea development, feasibility analysis, resource identification, and concludes with the development of a coherent business model.

Prerequisite(s): Prior or concurrent enrollment with a minimum grade of "C" in MBA 7630.**MGNT 7336 Readings in Total Quality Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Managerial issues that are important in understanding and implementing an organization-wide "Total Quality Management" process, to include organizational-level strategic quality decisions plus tactical-type decisions related to the total quality management of the organization.

Prerequisite(s): Prior or concurrent enrollment with a minimum grade of "C" in MBA 7630.

MHSA Health Services Admin

MHSA 5650G Seminar In Long Term Care Adm**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Issues particular to care of residents and management in a long-term care setting. Synthesis of topics studied elsewhere including accreditation standards, human resource issues. On-site visit.

MHSA 7300 Reimburs & Insur Princ For Hco
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide students a greater understanding of reimbursement and insurance, concepts and techniques that guide health care providers. The tools and models available to health care managers that assist them in their financial decision support and decision making processes as well as retrospectively evaluating and reviewing decisions that have been made are further explored.

MKTG Marketing

MKTG 3131 Principles of Marketing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A basic survey of the field of marketing with emphasis upon the problems of policy determination and marketing management. Consideration is given to the international and ethical aspects of marketing decisions.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in ECON 2106.

MKTG 3132 Principles of Advertising

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Stimulation of market demand through advertising media, including budgeting, research, developing the advertising appeal, selecting the media, placing copy and measuring results, as well as legal, ethical, economic, social, and global aspects of advertising.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 3133 Professional Selling

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of methods of selling. Topics covered include analysis of prospects, knowledge of merchandise and its uses, preparation of sales presentations, methods of handling objections and closing sales, with emphasis on relationship selling. Videotaped role playing required.

Prerequisite(s): Prior or concurrent enrollment in and a minimum grade of "C" in MKTG 3131.

MKTG 3134 Business Marketing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of business to business marketing as a subset of the overall discipline of marketing.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 3135 Principles of Retailing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines all aspects of retail store operations including store development, merchandising, human resources, promotion, and security.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 3136 Introduction to E-Commerce

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course presents the strategic themes and issues associated with the field of e-commerce and highlights the technology, capital, public policy, and media infrastructures needed to provide the context in which business strategy operates.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 4030 Special Topics in Marketing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A customized course that allows students to pursue further study in a specific marketing topic at the frontier of an area of research or a contemporary topic related to current real-world events.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 4131 Marketing Research

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An activity of information gathering, analysis and interpretation for input into management decision making. Application of current practices and techniques in the marketing research industry. Requires the use of statistical software.

Prerequisite(s): A minimum grade of "C" in BUSA 3131 and MKTG 3131.

MKTG 4132 Retail Store Management

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A comprehensive problems analysis course that involves both qualitative and quantitative aspects of retail operations. Merchandise budgets, pricing, operations control, and environmental issues are among the topics examined in the course.

Prerequisite(s): A minimum grade of "C" in MKTG 3131 and MKTG 3135.

MKTG 4133 Sales Management

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Management of sales force activities. Emphasis on organization, territory design, leadership skills, motivation, and cost analysis.

Prerequisite(s): A minimum grade of "C" in MKTG 3131 and MKTG 3133.

MKTG 4134 Services Marketing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An analysis of the marketing aspects of the largest and most rapidly growing sector of the global economy. The principles and concepts of marketing are applied within the context of both consumer services and business services, in both domestic and international settings. Emphasis is placed upon the unique problems and opportunities associated with the marketing of services and the design and implementation of marketing strategies for service organizations.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 4135 Consumer Behavior

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Application of the behavioral science approach to analysis of consumer behavior. Individual, social, sociocultural and psychological factors are studied.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 4136 International Marketing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of the mechanics of international marketing with particular focus on the influence of culture on the development of marketing strategy. Coverage of marketing topics is comprehensive with a particular focus on current events and their relationship to trade. Discussion of ethics and global responsibility are infused throughout the course.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 4137 Marketing Management

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An integrative course designed to demonstrate the complexity and multi-dimensional nature of marketing decisions. Marketing policies and strategy form the marketing manager's viewpoint.

Prerequisite(s): A minimum grade of "C" in MKTG 3131 and Senior standing.

MKTG 4150 Digital Marketing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines major trends and technologies in electronic commerce (e-commerce), various internet market strategies and applications, the business implications of social media such as blogs, opinion forums, social networks, search engine marketing, and other kinds of emerging communities and applications.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 4232 Advanced Selling

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An advanced course that integrates and extends concepts encountered in other selling and sales-related courses. Particular emphasis is placed on negotiating skills and customer relationship management (CRM), as well as general sales-related topics including sales automation and time/territory management. Students will be required to spend time in the field with professional salespeople and to prepare and deliver several effective sales presentations.

Prerequisite(s): A minimum grade of "C" in MKTG 3131 and MKTG 3133.

MKTG 4790 Internship in Marketing
3-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A supervised work-study program in selected business firms throughout the Southeast and nationally. Students will be permitted to undertake internships only after review of academic qualifications and with firms pre-approved by the Marketing faculty.

MKTG 4830 Special Problems in Marketing
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

An intensive study of some phase of emerging phase of marketing to be developed by the instructor.

Prerequisite(s): A minimum grade of "C" in MKTG 3131.

MKTG 4890 Directed Study in Marketing
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Independent study and research in selected areas of Marketing under supervision of a member of the Marketing faculty.

MKTG 5830 Marketing Independent Study
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Cross Listing(s): MKTG 5830G.

MKTG 5830G Marketing Independent Study
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Cross Listing(s): MKTG 5830.

MKTG 7830 Special Topics in Marketing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A standard course developed for a special or newly emerging topic in Marketing. Lectures, group work, readings, research, and writing are required as in any other advanced elective course.

Prerequisite(s): Prior or concurrent enrollment with a minimum grade of "C" in MBA 7633.

MSED Middle Grades & Second Ed

MSED 4130 Teaching Global Issues in Middle/Secondary Classrooms

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide teacher candidates with opportunities to both learn about significant historical and contemporary global issues and how to design learning activities to engage young adolescents in similar inquiries. Teacher candidates will investigate a range of issues including poverty, climate change, human conflict, and the spread of disease from a regional and global perspective. They will use this newly acquired knowledge to locate and evaluate curriculum materials for use in middle grades social studies classrooms and to design instructional units aligned with the Georgia Standards of Excellence for Social Studies.

MSED 5333 Literature and Writing for the Middle and Secondary Schools

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An intensive study of instructional strategies appropriate for integrating literature and writing instruction. Special attention will be given to identifying and accommodating reading and writing needs of diverse adolescent learners, as well as evaluating the effectiveness of instruction. Students will learn to develop cross-curricular instruction, diagnose reading problems, provide individualization feedback, as well as employ appropriate intervention and assessment methods.

Cross Listing(s): MSED 5333G.

Corequisite(s): MGED 3131.

MSED 5333G Literature and Writing for the Middle and Secondary Schools

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An intensive study of instructional strategies appropriate for integrating literature and writing instruction. Special attention will be given to identifying and accommodating reading and writing needs of diverse adolescent learners, as well as evaluating the effectiveness of instruction. Students will learn to develop cross-curricular instruction, diagnose reading problems, provide individualization feedback, as well as employ appropriate intervention and assessment methods. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MSED 5333.

MSED 6120 Introduction to the Middle and Secondary School
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is intended to provide beginning and preservice middle and secondary educators with an introduction to the knowledge and skills required of effective and equitable teachers. More specifically, the course readings and activities are intended to help beginning/pre-service teachers explore their own motivation for teaching, understand the unique attributes of diverse young adolescent learners, and analyze the cognitive, social and cultural contexts of learning.

Corequisite(s): MSED 6122 and MSED 6123.

MSED 6122 Curriculum and Instruction I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines instructional design for middle and secondary schools. It examines classroom practice and provides substantial knowledge of models of teaching, lesson design, and classroom management.

Corequisite(s): MSED 6120 and MSED 6123.

MSED 6123 Middle and Secondary School Practicum
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Candidates will observe, assist, plan, and teach in the specific teaching field and grade level for which they are being certified. Emphasis is placed on participation in various aspects of classroom life and the unique needs of adolescent learners. In addition, candidates will plan with the clinical supervisor or school-based mentor and teach lessons in a middle or secondary content area.

Corequisite(s): MSED 6120 and MSED 6122.

MSED 6131 Curriculum and Instruction II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to assist teacher candidates in understanding curriculum design, instructional planning and teaching practices in middle and secondary school and in reflecting on best practices in middle and secondary instruction. Emphasis is placed on planning, presentation, and assessment skills, as well as developing strategies for working with the diverse student populations present in schools. Candidates will design a learning segment that demonstrates effective instructional strategies, appropriate content, multiple assessments of student learning, and a range of learning resources, including technology.

Prerequisite(s): A minimum grade of "C" in MSED 6120 and MSED 6122.

MSED 6237 Science Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to assist students in understanding the purpose of science in the middle and secondary school curriculum while they become familiar with the trends in science instruction and laboratory and field safety procedures. Major emphasis is placed on planning and presentation skills and on developing strategies to facilitate working with diverse student populations present in public schools.

Prerequisite(s): A minimum grade of "C" in MSED 6120 and MSED 6122, admission into the teacher education program.

MSED 6330 Instructional Assessment for Diverse Learners
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the roles, tools, and approaches of assessment including planning and implementing standards-based assessment; measuring and evaluating the instructional impact on student learning; and interpreting and communicating national and state standardized test data.

MSED 6337 Language Arts Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of methods and materials appropriate in teaching composition, literature, and oral expression in the middle and secondary school language arts/English program. Emphasis will be placed on the writing process, teaching grammar through writing, and literature for middle grades and secondary classrooms.

Prerequisite(s): A minimum grade of "C" in MSED 6120 and MSED 6122 and admission into the teacher education program.

MSED 6437 Social Science Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to enable teacher education candidates to construct social studies curricula that will empower diverse learners to understand and to participate in our democratic and multicultural society.

Prerequisite(s): A minimum grade of "C" in MSED 6120 and MSED 6122 and admission into the teacher education program.

MSED 6537 Mathematics Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of teaching methods and materials, curriculum content, assessment and trends in middle and secondary school mathematics. Emphasis is placed on instructional planning for diverse classrooms; assessment of student learning; the use of multiple resources, including technology; and application of NCTM standards in the middle grades and secondary mathematics curriculum.

Prerequisite(s): A minimum grade of "C" in MSED 6120 and MSED 6122 and admission into the teacher education program.

MSED 6637 Business Education Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of teaching methods and materials, curriculum content, and trends in teaching Business Education in the middle and secondary schools. The course also includes a study of vocational education programs. Emphasis is placed on instructional planning for diverse classrooms; assessment of student learning; the use of multiple resources, including technology; and an application of the national business education standards.

Prerequisite(s): A minimum grade of "C" in MSED 6120; admission to Teacher Education Program.

MSED 6737 Family and Consumer Sciences Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course assists students in understanding the purpose of family and consumer sciences programs in the secondary school curriculum and in becoming familiar with the trends in family and consumer sciences instruction. Students will develop skills in planning and evaluating family and consumer sciences instruction using the classroom as a laboratory. Major emphasis is placed on planning and presentation skills and on developing strategies to facilitate learning of diverse student populations in the public schools.

Prerequisite(s): Admission to Teacher Education Program.

MSED 6738 Supervised Practicum in Middle and Secondary Education

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This supervised practicum is a field-based teaching experience in a middle or secondary school classroom. Candidates will complete structured observations and plan and teach a learning segment in one's teaching field. Emphasis is placed on lesson and unit planning, a variety of instructional strategies for diverse populations of students, classroom management, multiple assessment strategies, strategies that enhance student learning, the selection and use of instructional technology, and professional reflection.

Prerequisite(s): A minimum grade of "C" in MSED 6120 and 6122 and admission to the Teacher Education Program.

Corequisite(s): MSED 6131.

MSED 6799 Student Teaching Internship in Middle Grades and Secondary Education

6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A fifteen-week supervised internship in the specific content area and grade levels for which one is being certified. Candidates seeking initial certification in middle grades or secondary education will complete this internship in order to be eligible for initial certification.

Prerequisite(s): A minimum grade of "C" in MSED 6131, a minimum grade of "B" in SPED 6130, a minimum grade of "C" in a content methods course in the area in which they are seeking certification and employment in a school in the content area in which they are seeking certification.

Corequisite(s): MSED 7635.

MSED 7130 Middle and Secondary School Colloquium

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The goal of this capstone course is to provide students with opportunities to integrate and apply what they have learned in the MAT program. Each candidate will analyze observation and classroom data to design a personalized professional development plan, implement the plan and analyze its effectiveness.

MSED 7132 Assessment of Student Learning

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will emphasize a study of formal and informal assessments in order to maximize student learning. Emphasis is placed on strategies for collecting, analyzing, and using student performance data to modify instruction and increase student learning for all students.

Prerequisite(s): A minimum grade of "C" in MGED 6131 or SCED 6131.

MSED 7231 Hands-On Science for the Middle and Secondary Schools

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to introduce and promote the use of curricula, resources, and activities, which emphasize the use of hands-on/inquiry science appropriate for middle and secondary schools. The course focuses on: the development of hand-on and interdisciplinary science curricula; research relative to the use of inquiry-based science; classroom implementation of science programs; and the development of process and inquiry skills. Emphasis will be placed on addressing local needs and resources in the area of science instruction. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field: biology, broad fields science, chemistry, physics, or middle grades science.

MSED 7232 Teaching the Great Ideas in Science
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to enhance students' understanding of the "Great Scientific Premises" that undergird and integrate the science disciplines. Emphasis is placed on hands-on interaction with scientific principles and materials that will enhance the capacity of teachers to support their students' construction of scientific understanding. The course uses the ideas and experiences of both classical and/or contemporary scientists to engage teachers in a reflective opportunity to gain an appreciation of the rich extent of the history and nature of the scientific enterprise and to prepare them to help their students "make sense" of the science they are expected to learn. It is also designed in a way to engage teachers with the National Science Standards as they explore the science that is necessary to be a scientifically literate citizen of the United States. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field: biology, broad fields science, chemistry, physics, or middle grades science.

MSED 7331 Early Adolescent Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of pedagogical theory and practices for integrating contemporary early adolescent/young adult literature into the middle and secondary school curriculum. Course content will focus on making text selections, workshop approaches, literary circles, and reader response theory. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

Cross Listing(s): FRMS 7331.

MSED 7333 Writing Instruction for the Middle and Secondary Schools

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines current research in the teaching of writing. Emphasis will be placed on a study of instructional strategies for prewriting, composing, revising, and editing. The course also examines models for integrating writing across subject areas in the middle and secondary schools. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

MSED 7431 Teaching Geography in the Middle and Secondary Schools

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to assist social studies teachers implement the National Geographic Standards. These standards identify what every public school student should learn. The course will emphasize the benchmarks that have been adopted in order to assist teachers and curriculum specialists develop guidelines for their own classrooms and school systems.

MSED 7432 Teaching Social Studies in the Middle and Secondary Schools

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the place of social education in middle and secondary schools. In a seminar setting, students will analyze problems challenging middle and secondary school social studies educators including the knowledge base of social science education, teaching for active and responsible citizenship, making curricular choices, selecting appropriate instructional techniques, and assessing current trends in middle and secondary school social studies education. Candidates must tailor the course assignments and experiences to their specific grade levels and certification/content field: economics, geography, history, political science, or middle grades social studies.

MSED 7433 Teaching Business Education in the Secondary Schools

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Students will examine current trends, issues, and research related to teaching Business Education in the secondary schools. Emphasis is placed on state and national business education standards, instructional strategies, assessments, and resources that have an impact on student learning. Candidates will examine, analyze, and reflect on current problems challenging business education teachers in the secondary schools.

MSED 7535 Teaching Middle Grades and Secondary Mathematics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth study of current content standards, methods and assessment strategies for teaching middle grades and secondary mathematics. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

MSED 7635 MAT Seminar in Middle Grades and Secondary Education

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The seminar focuses on the importance of reflection and inquiry in the professional development and growth of educators. The course is designed to support teacher candidates as they develop and implement a personalized approach to meaningful and purposeful reflection on their relationships with their students and colleagues as well as their instructional and assessment practices.

Prerequisite(s): A minimum grade of "C" in MSED 6131, and a methods course with a minimum grade of "C".

Corequisite(s): MSED 6799.

MSED 7639 MED Seminar in Middle Grades and Secondary Education

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is a seminar for the MEd in Middle Grades Education and Secondary Education programs. Emphasis is placed on a study of the historical and contemporary research, instruction, and recommended practices for effective middle and secondary schools. Current trends and issues in middle grades and secondary education will be examined. A classroom action research project is included.

Prerequisite(s): A minimum grade of "C" in EDUR 7130 and MSED 8333 or MSED 8331, and an advanced pedagogy course in one's certified concentration area with a minimum grade of "C".

MSED 8231 Trends in Middle and Secondary Science

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to provide an in-depth study of current issues, reforms, and trends in middle grades and secondary science. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field: biology, broad fields science, chemistry, physics, or middle grades science.

MSED 8331 Trends in the Content Areas

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides opportunities to explore a selected political, cultural and/or technological trend as it relates to teaching in the content areas. The specific focus of the course will vary, but the structure and learning goals will remain constant. Students will explore the theoretical foundations of the selected trends as well as pedagogical practices aligned with the trends in their specific certification/content field and grade levels. Candidates must tailor the course assignments and experiences to their specific grade levels and certification/content field.

MSED 8333 Readings and Research in the Content Areas
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides opportunities for students to analyze current research in their certification/content field and grade levels in relation to classroom practice. More specifically students will explore current trends and issues in teaching and learning in the disciplines through intensive reading of scholarly and practitioner journals. Students will select one issue, review current literature that addresses this issue and write a review that summarizes findings from this research and implications for their classroom practice. Issues addressed in the course may include topics such as teaching English Language Learners in content area classrooms, using Web 2.0 technologies effectively and role of discussion in learning content.

MSED 8434 Trends in Middle and Secondary Social Studies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of current trends and issues in social studies curriculum and instruction. An emphasis is placed on an analysis of problems challenging social studies teachers in the middle and secondary schools. Candidates must tailor the course assignments and experiences to their specific grade levels and certification/content field: economics, geography, history, political science, or middle grades social studies.

MSED 8530 Foundations of Teaching Grades 4-12 Mathematics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth analysis of the content and pedagogy of middle grades and secondary mathematics. Emphasis will be placed on a study of the research in middle grades and secondary mathematics curriculum and instruction as well as the historical development of current mathematics content requirements. Candidates must tailor their course assignments and experiences to their specific grade levels and certification/content field.

MUSA Applied Music

MUSA 1100 Applied Music**1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

Prerequisite(s): A minimum grade of "C" in all of the following: MUSC 2512 and MUSC 2514 and MUSC 2334 .

MUSA 1200 Applied Music**2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 2100 Applied Music****1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.****MUSA 2101 Recital****0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 2129 Applied Music - Composition****2 Credit Hours. 1 Lecture Hour. 0 Lab Hours.**

Prerequisite(s): A minimum grade of "C" in MUSC 1311 and MUSC 1332 and MUSC 1514.

MUSA 2200 Applied Music**2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 3101 Junior Recital****0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Prerequisite(s): A minimum grade of "C" in all of the following: MUSC 2334 and MUSC 2512 and MUSC 2514.

MUSA 3129 Intermediate Composition**2 Credit Hours. 1 Lecture Hour. 0 Lab Hours.****MUSA 3811 Applied Music****1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.****MUSA 3812 Applied Music****1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.****MUSA 3821 Applied Music****2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 3822 Applied Music****2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 4111 Senior Recital****0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 4129 Advanced Composition****2 Credit Hours. 1 Lecture Hour. 0 Lab Hours.****MUSA 4300 Applied Music****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 4813 Applied Music****1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.****MUSA 4814 Applied Music****1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.****MUSA 4823 Applied Music****2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 4824 Applied Music****2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 5110 Coaching for Singers****1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

The purpose of this course is to provide career-track singers with an opportunity to work with an expert on such matters as interpretation, diction, and artistic communication.

Cross Listing(s): MUSA 5110G.

MUSA 5110G Coaching for Singers**1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

The purpose of this course is to provide career-track singers with an opportunity to work with an expert on such matters as interpretation, diction, and artistic communication. Graduate students will have additional requirements as assigned by instructor.

Cross Listing(s): MUSA 5110.

MUSA 7100 Applied Music**1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.****MUSA 7191 Recital****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 7192 Composition****1-3 Credit Hours. 0.5-1.5 Lecture Hours. 0 Lab Hours.****MUSA 7199 Applied Conducting****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

N/A.

MUSA 7200 Applied Music**2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.****MUSA 7300 Applied Music****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

MUSC Music

MUSC 1100 Music Appreciation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the development of listening skills, the fundamental elements of music, a historical survey of major periods and styles in Western music, and music in selected non-Western cultures.

MUSC 1311 Introduction to Composition**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Introduction to the development of listening skills, the fundamental elements of music, a historical survey of major periods and styles in Western music, and music in selected non-Western cultures.

MUSC 1315 Guitar Class Non-Major**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Basic elements of guitar performance for non-music majors.

MUSC 1316 Voice Class Non-Major**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Basic elements of vocal performance for non-music majors.

MUSC 1331 Music Theory I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Development of a command of the fundamental elements in music notation and structure, paralleling the work in MUSC 1513. Emphasizes notation, scales, tonality, intervals, harmony, cadences, nonharmonic tones, texture, and melodic organization.

MUSC 1332 Music Theory II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continuation of the manipulation of elements in music notation and structure, paralleling the work in MUSC 1514. Emphasizes voice-leading in two and four voices, harmonic progression and rhythm, the dominant seventh chord, leading-tone seventh chords, and non-dominant seventh chords.

Prerequisite(s): A minimum grade of "C" in MUSC 1331.**MUSC 1333 Music Fundamentals I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Basic music theory with emphasis on note reading, understanding scales and rhythms, simple chord formations and their applications, basic relationships between melody and harmony and reading melodies at sight.

MUSC 1334 Music Fundamentals II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Further study in melodic and harmonic relationships with emphasis on chord symbols, and chord progressions through the study and analysis of musical compositions.

Prerequisite(s): MUSC 1333.**MUSC 1511 Group Piano I****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

The study of keyboard theory and development of functional piano skills at the elementary level with emphasis on harmonization, sight-reading transposition, improvisation, and scales and chords.

MUSC 1512 Group Piano II**1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

Continuation of skills begun in MUSC 1511

Prerequisite(s): A minimum grade of "C" in MUSC 1511.**MUSC 1513 Aural Skills I****1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

Development in aural perception and sight-singing skills to parallel the work in MUSC 1331. Emphasizes melodic and harmonic dictation and sight-singing.

MUSC 1514 Aural Skills II**1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

Development in aural perception and sight-singing skills to parallel the work in MUSC 1332. Emphasizes melodic and harmonic dictation and sight-singing.

Prerequisite(s): A minimum grade of "C" in MUSC 1513.**MUSC 1515 Technology in Music****1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

Introduction to the uses of technology in music, including acoustics, hardware/software, digital keyboards and MIDI sequence recording and editing. Supervised lab work with digital synthesizers and computers.

MUSC 2280 Group Piano Non-Music Majors**1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

Keyboard literature and techniques at the beginning and elementary levels. May be repeated for credit.

MUSC 2311 Jazz Improvisation I**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Theory and techniques of jazz improvisation with emphasis on functional harmony, melodic form, and development of style.

Prerequisite(s): A minimum grade of "C" in MUSC 1332 and MUSC 1514.**MUSC 2312 Jazz Improvisation II****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Theory and techniques of jazz improvisation with emphasis on functional harmony, melodic form, and development of style.

Prerequisite(s): A minimum grade of "C" in MUSC 2311.**MUSC 2333 Music Theory III****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of traditional, chromatic, and twentieth century forms and melodic/harmonic practices. Exercises in composition are included.

Prerequisite(s): A minimum grade of "C" in MUSC 1332.**MUSC 2334 Music Theory IV****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of traditional, chromatic, and twentieth century forms and melodic/harmonic practices. Exercises in composition are included.

Prerequisite(s): A minimum grade of "C" in MUSC 2333.**MUSC 2411 Diction for Singers I****1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

Focuses on the study of the International Phonetic Alphabet and its application to the Italian, English, and Latin languages within the standard vocal literature.

MUSC 2412 Diction for Singers II**1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

Focuses on the study of the International Phonetic Alphabet and its application to the German, French, and Spanish languages within the standard vocal literature.

MUSC 2431 Piano Pedagogy I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the teaching of piano at the elementary level through an examination of beginning methods and materials, teaching techniques, and studio management.

MUSC 2511 Group Piano III**1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

Continuation of skills developed in MUSC 1512 at the intermediate level, with additional work in score reading and accompanying.

Prerequisite(s): A minimum grade of "C" in MUSC 1512.**MUSC 2512 Group Piano IV****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

Continuation of skills developed in Group Piano III. Final Exam serves as the Piano Exit Exam.

Prerequisite(s): A minimum grade of "C" in MUSC 2511.**MUSC 2513 Aural Skills III****1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

Development of aural perception and sight-singing. Emphasis on melodic and harmonic dictation and error detection. Supervised lab sessions for ear training practice.

Prerequisite(s): A minimum grade of "C" in MUSC 1514.**MUSC 2514 Aural Skills IV****1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

Development of aural perception and sight-singing. Emphasis on melodic and harmonic dictation and error detection. Supervised lab sessions of ear training practice.

Prerequisite(s): A minimum grade of "C" in MUSC 2513.**MUSC 2621 Introduction to Music Education****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

History and philosophy of music education, basic teaching methods, lesson planning skills, and familiarity with professional resources and the Georgia Performance Standards. Because this course includes a field experience component, it must be taken on the student's home campus.

Prerequisite(s): A minimum grade of "C" in MUSC 1332 and MUSC 1512.**MUSC 3031 Selected Topics in Music****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics vary with individual professor.

MUSC 3111 Method and Pedagogy, Violin/Viola I**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course emphasizes string techniques in terms of methodology with an organized method of teaching approaches.

MUSC 3112 Method and Pedagogy, Violin/Viola II**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course emphasizes string techniques in terms of methodology with an organized method of teaching approaches which will include practical training and repertoire application.

MUSC 3120 Form and Analysis**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Principles of form in music, including imitative techniques and forms, and techniques of harmonic analysis. Open only to music majors.

Prerequisite(s): A minimum grade of "C" in MUSC 2334.

MUSC 3131 History of Music I**3 Credit Hours. 3 Lecture Hours. 1 Lab Hour.**

A chronological survey of music from antiquity to the end of the Baroque period, emphasizing issues of style, performance practice, musical aesthetics, and cultural context.

Prerequisite(s): HIST 1112.

MUSC 3132 History of Music II**3 Credit Hours. 3 Lecture Hours. 1 Lab Hour.**

A chronological survey of music from the classic period to the present, emphasizing issues of style, performance practice, musical aesthetics, and cultural context.

Prerequisite(s): HIST 1112.

MUSC 3211 Instrumental Methods I**1 Credit Hour. 2 Lecture Hours. 0 Lab Hours.**

Designed for the choral music education student, this course provides an overview of theoretical and practical knowledge of the woodwind and string families. This course is intended for Music majors and students must be admitted to the Music Education program before enrolling in the course.

Prerequisite(s): Admission to the Music Education program.

MUSC 3212 Instrumental Methods II**1 Credit Hour. 2 Lecture Hours. 0 Lab Hours.**

Designed for the choral music education student, this course provides an overview of theoretical and practical knowledge of the brass and percussion families. This course is intended for Music majors and students must be admitted to the Music Education program before enrolling in the course.

Prerequisite(s): Admission to the music education program.

MUSC 3213 Percussion Methods**1 Credit Hour. 2 Lecture Hours. 0 Lab Hours.**

This course emphasizes acquisition of theoretical and practical knowledge of percussion instruments. It includes instructional application through playing and the study of methods and materials. This course is intended for Music majors and students must be admitted to the Music Education program before enrolling in the course.

Prerequisite(s): Admission to the music education program.

MUSC 3215 String Methods**1 Credit Hour. 2 Lecture Hours. 0 Lab Hours.**

This course emphasizes acquisition of theoretical and practical knowledge of string instruments. It includes instructional application through playing and the study of methods and materials. This course is intended for Music majors and students must be admitted to the Music Education program before enrolling in the course.

Prerequisite(s): Admission to the music education program.

MUSC 3216 Voice Class**1 Credit Hour. 2 Lecture Hours. 0 Lab Hours.**

This course is designed to teach the elements of healthy voice production to instrumental majors in the music education program. It includes study of breathing for singing, elements of balanced tone production, an introduction to the International Phonetic Alphabet, and instructional application through singing and study of methods and materials. This course is intended for Music majors and students must be admitted to the Music Education program before enrolling in the course.

Prerequisite(s): Admission to the music education program.

MUSC 3217 Woodwind Methods**1 Credit Hour. 2 Lecture Hours. 0 Lab Hours.**

This course emphasizes acquisition of theoretical and practical knowledge of woodwind instruments. It includes instructional application through playing and the study of methods and materials. This course is intended for Music majors and students must be admitted to the Music Education program before enrolling in the course.

Prerequisite(s): Admission to the music education program.

MUSC 3218 Brass Methods**1 Credit Hour. 2 Lecture Hours. 0 Lab Hours.**

This course emphasizes acquisition of theoretical and practical knowledge of brass instruments. It includes instructional application through playing and the study of methods and materials. This course is intended for Music majors and students must be admitted to the Music Education program before enrolling in the course.

Prerequisite(s): Admission to the music education program.

MUSC 3232 Elementary Methods and Materials in Music**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Designed for the music specialist in the elementary school, with an emphasis on materials and methodology used in preschool through grade eight. Opportunities will be provided for observing, planning, and teaching in the elementary school classroom. Restricted to music majors. Because this course includes a field experience component, it must be taken on the student's home campus.

Prerequisite(s): Admission to the Teacher Education Program.

MUSC 3311 Jazz Improvisation III**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Theory and techniques of Jazz improvisation with emphasis on functional harmony, melodic form, and development of style.

Prerequisite(s): A minimum grade of "C" in MUSC 2312.

MUSC 3312 Jazz Improvisation IV**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Theory and techniques of jazz improvisation with emphasis on functional harmony, melodic form, and development of style.

Prerequisite(s): A minimum grade of "C" in MUSC 3311.

MUSC 3334 Survey of Latin American Music**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survey of Latin American Music covers traditional, popular, and classical music from the region as well as the historic and social contexts of their evolution.

MUSC 3335 History of Rock & Roll**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a survey of the history of rock-and-roll music and its impact on and reflection of the broader culture.

MUSC 3411 Brass Pedagogy**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course is a survey of teaching techniques (studio teaching of instruments).

Prerequisite(s): Admission to the music performance program.

MUSC 3412 Percussion Pedagogy**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course is a survey of teaching techniques (studio teaching of instruments).

Prerequisite(s): Admission to the music performance program.

MUSC 3413 String Pedagogy**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course is a survey of teaching techniques (studio teaching of instruments).

Prerequisite(s): Admission to the music performance program.

MUSC 3414 Woodwind Pedagogy**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course is a survey of teaching techniques (studio teaching of instruments). This course is intended for Music majors and students must be admitted to the Music Education program before enrolling in the course.

Prerequisite(s): Admission to the music performance program.

MUSC 3420 Piano Literature I**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The study of solo piano music from the late Baroque Period through the compositions of Beethoven, with special attention given to representative genres and composers.

MUSC 3421 Piano Literature II**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Covers the principle genres of solo piano music from the early Romantic Period through the Impressionistic Period, with formal and stylistic analysis of specific representative works by the principal composers.

MUSC 3423 Vocal Literature I**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Study of the historical development of the Italian, French, and Spanish song literature, focusing on selected works of representative composers in each stylistic period.

Prerequisite(s): A minimum grade of "C" in MUSC 2411 and MUSC 2412.

MUSC 3424 Vocal Literature II**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Study of the historical development of the German and English song literature, focusing on selected works of representative composers in each stylistic period.

Prerequisite(s): A minimum grade of "C" in MUSC 2411 and MUSC 2412.

MUSC 3432 Piano Pedagogy II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the teaching of piano at the pre-school, adult and intermediate levels.

Prerequisite(s): A minimum grade of "C" in MUSC 2431.

MUSC 3435 Imagine: The Music of the Beatles**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the music of the Beatles in the context of the popular culture of the 1950s and 1960s. While attention will be given to the history and development of the Beatles as a group, the course will focus primarily on the songs themselves.

MUSC 3460 Introduction to Music Industry**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of the recording, entertainment and performing arts industries including an examination of the historical, aesthetic and commercial developments of the music industry in the United States.

MUSC 3470 Music Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Theory and practice in music programming management, including audience analysis and development, publicity, promotions, and marketing tools developed.

MUSC 3610 Orchestration**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Techniques of orchestration; arranging for instrumental and choral groups. Open only to music majors.

Prerequisite(s): A minimum grade of "C" in MUSC 2334.

MUSC 4120 Counterpoint**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Contrapuntal practices of 18th century music. Open only to music majors.

Prerequisite(s): A minimum grade of "C" in MUSC 2334.

MUSC 4211 Marching Band Techniques**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course examines the development of marching band over time. Students are introduced to basic concepts in marching techniques, marching band administration, drill writing, and drumline. Students gain competence in drill writing software, developing a policy and procedures handbook, and administering color guard and majorette techniques.

MUSC 4280 Marching Band Techniques**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Organization and development of a school marching band, including drill writing, scoring and rehearsal techniques. Must have passed Rising Junior Exam.

MUSC 4411 Basic Conducting**1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

A practical course directed toward the cultivation and development of the skills required for students who plan to conduct music ensembles.

Prerequisite(s): A minimum grade of "C" in MUSC 1331.

MUSC 4421 Voice Pedagogy**2 Credit Hours. 2 Lecture Hours. 1 Lab Hour.**

The development of the teaching of singing through the study of its history and the investigation and application of research in vocal production and pedagogy. Supervised teaching of applied lessons and a survey of teaching materials.

Prerequisite(s): A minimum grade of "C" in MUSC 2512 and MUSC 2514.

MUSC 4431 Choral Conducting and Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to provide students with in-depth knowledge of choral conducting techniques and literature. Students will study appropriate conducting gestures specific to choral ensembles while acquiring knowledge of the great monuments of choral literature.

Prerequisite(s): A minimum grade of "C" in MUSC 4411.

MUSC 4432 Instrumental Conducting and Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Development of conducting skills through the study of literature appropriate for all levels of instrumental ensembles.

Prerequisite(s): A minimum grade of "C" in MUSC 4411.

MUSC 4532 Secondary Methods and Materials in Music**3 Credit Hours. 3 Lecture Hours. 1 Lab Hour.**

Designed to provide the music education candidate with rehearsal and teaching skills necessary to function in the secondary music classroom. Through in class instruction and thirty hours of structured field experience, students will learn rehearsal and teaching techniques, management and administration strategies, and develop specific skills related to effective secondary music teaching. Because this course includes a field experience component, it must be taken on the student's home campus.

Prerequisite(s): A minimum grade of "C" in MUSC 4432 or MUSC 4431; admission to the Teacher Education Program.

MUSC 4534 Recording Studio Techniques**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course focuses on the technical and creative investigation of current multi-track recording and mixing techniques. Technical aspects of essential signal processing techniques are covered and their aesthetic implications are actively explored. Students examine these topics through the creation of music in a recording studio using a variety of tools including hardware and software processors and multi-tracking software.

Prerequisite(s): A minimum grade of "C" in MUSC 1515.

MUSC 4535 Digital Audio Workstations**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course covers essential techniques and concepts for the fluent use of Digital Audio Workstations. Students will examine multiple aspects of Digital Audio Workstations including: audio recording, audio editing, signal routing, audio mixing, MIDI, and synthesis techniques using virtual instruments. Technical concepts related to digital audio will also be covered. At the core of the course is an emphasis upon the application of technical knowledge through the creation of musical works.

Prerequisite(s): A minimum grade of "C" in MUSC 1515.**MUSC 4536 Live Sound Reinforcement****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Overview of techniques and tools used in amplification of live sound performance in music and theater. Study of physical properties of sound, fundamentals of acoustics, and current technology and equipment.

MUSC 4611 Seminar in Music Education**1 Credit Hour. 1 Lecture Hour. 1 Lab Hour.**

Designed to provide the music education candidate with skills for administering school music programs, as well as rehearsal, teaching, and assessment skills. Because this course includes a field experience component, it must be taken on the student's home campus.

Prerequisite(s): A minimum grade of "C" in MUSC 4532 and enrollment in Teacher Education Preparation program.**MUSC 4632 Student Teaching Seminar****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Taken concurrently with MUSC 4799, this course addresses ensemble management, student assessment, long-term planning, professional communication, and career preparation.

Corequisite(s): MUSC 4799.**MUSC 4799 Student Teaching in P-12 Music Education****9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Student Teaching in P-12 Music Education is a period of guided music teaching during which the candidate, under the direction of a clinical supervisor, takes increasing responsibility for leading the school music experiences of a given group of learners over a period of consecutive weeks. The candidate engages more or less directly in many of the activities which constitute the wide range of a music teacher's assigned responsibilities. Because this course is a field experience, it must be taken on the student's home campus.

Prerequisite(s): Completion of all degree requirements and admission to the Teacher Education Program.**MUSC 4850 Senior Project****2 Credit Hours. 0 Lecture Hours. 4 Lab Hours.**

Written research document submitted for faculty review to address senior recital program. May include: composer biography, program notes, translations (if applicable), formal analysis, genre parameters or other material, as approved by the department.

MUSC 4891 Special Problems in Music**1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Topics vary with individual professor.

MUSC 4910 Internship**1-5 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Supervised individually designed course project involving off-campus study, work, and/or research. Projects are under the joint supervision of the sponsoring institution and the faculty supervisor.

MUSC 5030 Selected Topics Music Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically announced area in music literature.

Cross Listing(s): MUSC 5030G.**MUSC 5031 Selected Topics in Music****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics vary with individual professor.

Cross Listing(s): MUSC 5031G.**MUSC 5040 Special Topics in Music Industry****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music industry.

MUSC 5231 Music in the Classic Period**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory from the Classic period.

Prerequisite(s): A minimum grade of "C" in MUSC 3132.**Cross Listing(s):** MUSC 5231G.**MUSC 5232 Music in the Romantic Period****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory from the Romantic period.

Cross Listing(s): MUSC 5232G.**MUSC 5233 Music in the Contemporary Period****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends aesthetic and stylistic developments, significant figures, and selected repertory from the Contemporary period.

Cross Listing(s): MUSC 5233G.**MUSC 5234 History of Opera****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory in opera history.

Prerequisite(s): A minimum grade of "C" in MUSC 3131 and MUSC 3132.**Cross Listing(s):** MUSC 5234G.**MUSC 5236 Jazz History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A jazz survey course which emphasizes the historical, musical, and chronological development of jazz music.

Cross Listing(s): MUSC 5236G.**MUSC 5237 Symphonic Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory in symphonic literature.

Prerequisite(s): A minimum grade of "C" in MUSC 3132.**Cross Listing(s):** MUSC 5237G.**MUSC 5239 Selected Topics in Music History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music history.

Cross Listing(s): MUSC 5239G.**MUSC 5332 Jazz Styles and Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of most of the major jazz styles which have been documented in recordings. Emphasis in post-1940's styles of big bands and combos, and in the musical analysis of those jazz styles.

Prerequisite(s): A minimum grade of "C" in MUSC 3132 and MUSC 5236.**Cross Listing(s):** MUSC 5332G.**MUSC 5411 Jazz Pedagogy****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Emphasizes the materials and methods available for the teaching of jazz music at all levels from middle school through university.

Cross Listing(s): MUSC 5411G.**MUSC 5430 Advanced Choral Arranging****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practical experience in arranging for various vocal combinations, score analysis, score reading, and manuscript preparation for publishers.

Prerequisite(s): A minimum grade of "C" in MUSC 2334.**Cross Listing(s):** MUSC 5430G.

MUSC 5431 Advanced Instrumental Arranging**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of issues and techniques in composing arrangements for various types of instrumental ensembles with practical experience.

Prerequisite(s): A minimum grade of "C" in MUSC 2334.**Cross Listing(s):** MUSC 5431G.**MUSC 5432 Advanced Jazz Arranging****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of issues and techniques in composing arrangements for various types of jazz ensembles with practical experience.

Cross Listing(s): MUSC 5432G.**MUSC 5539 Selected Topics in Music Technology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music technology.

Cross Listing(s): MUSC 5539G.**MUSC 5630 Music, Technology and Contemporary Culture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.****Cross Listing(s):** MUSC 5630G.**MUSC 5030G Selected Topics Music Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically announced area in music literature.

Graduate Students must complete an extra project for the course.

Cross Listing(s): MUSC 5030.**MUSC 5031G Selected Topics in Music****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics vary with individual professor. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MUSC 5031.**MUSC 5231G Music in the Classic Period****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory from the Classic period.

Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MUSC 5231.**MUSC 5232G Music in the Romantic Period****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory from the Romantic period.

Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MUSC 5232.**MUSC 5233G Music in the Contemporary Period****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory from the Contemporary period.

Cross Listing(s): MUSC 5233.**MUSC 5234G History of Opera****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory in opera history. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MUSC 5234.**MUSC 5236G Jazz History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A jazz survey course which emphasizes the historical, musical, and chronological development of jazz music. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MUSC 5236.**MUSC 5237G Symphonic Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of major historical trends, aesthetic and stylistic developments, significant figures, and selected repertory in symphonic literature.

Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MUSC 5237.**MUSC 5239G Selected Topics in Music History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music history.

Graduate students must complete an extra project for this course.

Cross Listing(s): MUSC 5239.**MUSC 5332G Jazz Styles and Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of most of the major jazz styles which have been documented in recordings. Emphasis in post-1940's styles of big bands and combos, and in the musical analysis of those jazz styles. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in MUSC 3132 and MUSC 5236 or MUSC 5236G.**Cross Listing(s):** MUSC 5332.**MUSC 5411G Jazz Pedagogy****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Emphasizes the materials and methods available for the teaching of jazz music at all levels from middle school through university. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MUSC 5411.**MUSC 5430G Advanced Choral Arranging****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practical experience in arranging for various vocal combinations, score analysis, score reading, and manuscript preparation for publishers.

Graduate students must complete an extra project for the course.

Cross Listing(s): MUSC 5430.**MUSC 5431G Advanced Instrumental Arranging****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of issues and techniques in composing arrangements for various types of instrumental ensembles with practical experience.

Cross Listing(s): MUSC 5431.**MUSC 5432G Advanced Jazz Arranging****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of issues and techniques in composing arrangements for various types of jazz ensembles with practical experience.

Cross Listing(s): MUSC 5432.**MUSC 5539G Selected Topics in Music Technology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music technology. Graduate students must complete an extra project for this course.

Cross Listing(s): MUSC 5539.**MUSC 5630G Music, Technology and Contemporary Culture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the development of sound technology, the impact of music technology on listeners, performers, and composers, the diversification and globalization of musical styles, and the changing sociological roles of music in contemporary culture from both historical and ethnographic points of view. Students will also explore specific topics of their own interest in a seminar setting. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): MUSC 5630.**MUSC 6111 Method and Pedagogy, Violin/Viola I****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course emphasizes string techniques in terms of methodology with an organized method of teaching approaches.

MUSC 6112 Method and Pedagogy, Violin/Viola II
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

This course emphasizes string techniques in terms of methodology with an organized method of teaching approaches which will include practical training and repertoire application.

MUSC 6131 Music Reference Tools and Resources
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of basic and advanced reference sources and tools relating to music, both printed and on-line; methods for locating, evaluating, and citing manuscript and printed musical sources, including critical editions; resources for finding music-related materials on the Internet; and tools for dealing with music reference materials in foreign languages.

MUSC 6689 Topics in Music**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

A study of topics from selected areas of instrumental music, vocal music, piano music, or music education.

MUSC 6750 Graduate Internship**4 Credit Hours. 0 Lecture Hours. 4 Lab Hours.****MUSC 7039 Selected Topics in Music Pedagogy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music pedagogy.

MUSC 7092 Selected Topics in Music**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics vary with individual professor.

MUSC 7231 History and Philosophy of Music Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of historical and philosophical currents which have shaped current music education practices.

MUSC 7232 Research in Music Learning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a presentation of quantitative and qualitative research methods, with emphasis on connecting research to music learning and performance contexts. Students will develop skills in design, data interpretation, and application to practice.

MUSC 7239 Selected Topics in Music Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music education.

MUSC 7330 Chamber Music Analysis and Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination, discussion, and analysis of selected chamber music literature from the Baroque to the present.

MUSC 7331 Advanced Analytical Techniques**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Techniques for analyzing form and other stylistic elements of music, emphasizing larger and more complex works; overview of major analytical methodologies; issues in interpreting published analytical research; combining analytical and historical research.

MUSC 7339 Selected Topics in Music Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music theory.

MUSC 7432 Choral Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to provide students with in-depth knowledge of choral literature. Students will study the major genres from the Pre-Renaissance to the present with emphasis on the mass, motet, requiem, and oratorio.

MUSC 7436 Wind Ensemble Literature Before 1950**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survey of the historical development of wind band literature and ensembles up to 1950 with respect to composers, composition, performers, instrumentation, and events.

MUSC 7437 Wind Ensemble Literature After 1950**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survey of the historical development of wind band literature and ensembles after 1950 with respect to composers, composition, performers, instrumentation, and events.

MUSC 7530 Digital Audio Montage**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Explores digital audio theory and practice, sound recording techniques, sound and music representation, sound transformation, and compositional methods of morphological montage through the creation and performance of musical works in the electronic medium.

MUSC 7533 Sound Design and Processing**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Examines sound design and processing through the use of the SuperCollider 3 programming language for musical digital signal processing. Students will explore fundamentals of object-oriented computer programming and musical digital signal processing through the creation and performance of musical works in the electronic medium and the creation of their own audio synthesis and transformation software.

MUSC 7534 Interactive Media**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Examines the use of interactivity in multimedia. Students will learn high-level programming concepts, algorithmic design, and digital signal processing principles using Cycling '74s Max software.

MUSC 7536 Audiovisual Composition**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Explores the creation of cross-modal compositions, performance systems, and tools constructed at their core as audiovisual amalgamations. The course is grounded in the history of visual music and current threads that diverge from this historical foundation. Largely project-based, this course gives students the opportunity to create interactive multimedia, intermedia, and transmedia works that pull other modalities into a musical content.

MUSC 7610 Music Technology Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course explores a wide variety of topics in the music technology area. Topics shift per semester. Topics are explored through lectures and hands-on application.

MUSC 7630 Seminar in Advanced Conducting**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Refinement of conducting and rehearsal techniques including issues related to preparation, gesture, blend and balance, intonation and diction, error detection, pedagogy, and rehearsal strategies. Includes supervised rehearsal and performance practicum. May be repeated for credit toward the degree.

MUSC 7633 Advanced Score Reading Techniques**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Score study techniques and discussion of issues in preparation for conducting across all areas of band, choral, orchestral, and mixed ensembles.

MUSC 7634 Music and the Brain**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course investigates aspects of music performance, perception, understanding and skill development through a cognitive lens. Course materials will be drawn from recent neurological and behavioral research, as well as from popular press.

MUSC 7639 Selected Topics in Conducting**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Specialized study of a specifically-announced area in music conducting.

MUSC 7891 Special Problems in Music**1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Topics vary with individual professor.

MUSC 7931 Music Education Final Project
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.
 Planned Project, written or practical, directed by the student's project advisor.

MUSC 7932 Music Technology Final Project
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.
 Planned project directed by the student's project advisor.

MUSE Music Ensemble

MUSE 1100 Recital Attendance
0 Credit Hours. 1 Lecture Hour. 0 Lab Hours.

MUSE 3100 Large Ensemble
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

MUSE 3114 Chamber Music Ensemble
1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3210 University Band
1 Credit Hour. 0 Lecture Hours. 3-5 Lab Hours.
 MUSE courses are not listed in the catalog.

MUSE 3211 Wind Symphony
1 Credit Hour. 0 Lecture Hours. 3-5 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3212 Marching Band
1 Credit Hour. 0 Lecture Hours. 3-10 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3213 Symphonic Wind Ensemble
1 Credit Hour. 0 Lecture Hours. 3-5 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3214 Jazz Ensemble
1 Credit Hour. 0 Lecture Hours. 3-4 Lab Hours.

MUSE 3215 Jazz Combo
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3216 Brass Ensemble
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3217 Percussion Ensemble
1 Credit Hour. 0 Lecture Hours. 3-4 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3218 Woodwind Ensemble
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3219 Pep Band
1 Credit Hour. 0 Lecture Hours. 1-8 Lab Hours.
 Ensemble to support athletic and other events. Membership includes woodwind, brass, and drumset.

MUSE 3311 University Singers
1 Credit Hour. 0 Lecture Hours. 3-4 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3312 Southern Chorale
1 Credit Hour. 0 Lecture Hours. 3-5 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3313 Women's Chorus
1 Credit Hour. 0 Lecture Hours. 3-5 Lab Hours.
 A select choral ensemble for women open to majors and non-majors who demonstrate superior ability in the audition process.

MUSE 3314 Opera Theatre
1 Credit Hour. 0 Lecture Hours. 2-5 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3315 Armstrong University Chorale
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

MUSE 3317 Armstrong University Singers
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

MUSE 3320 Armstrong Wind Ensemble
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

MUSE 3321 Savannah Winds
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

MUSE 3411 Orchestra
1 Credit Hour. 0 Lecture Hours. 3-5 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3414 String Ensemble
1 Credit Hour. 0 Lecture Hours. 3-4 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3511 Electronic Music Ensemble
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 3514 Piano Ensemble
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.
 MUSE courses do not have course descriptions in the catalog.

MUSE 6114 Chamber Music Ensemble
1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.
 None. MUSE courses do not have course descriptions in the catalog.

MUSE 6210 University Band
1 Credit Hour. 0 Lecture Hours. 3-5 Lab Hours.
 MUSE courses are not listed in the catalog.

MUSE 6211 Wind Symphony
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6212 Marching Band
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6213 Symphonic Wind Ensemble
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6214 Jazz Ensemble
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6215 Jazz Combo
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6216 Brass Ensemble
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6217 Percussion Ensemble
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6218 Woodwind Ensemble
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6219 Pep Band
1 Credit Hour. 0 Lecture Hours. 1 Lab Hour.
 Ensemble to support athletic and other events. Membership includes woodwind, brass, and percussion.

MUSE 6311 University Singers
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6312 Southern Chorale
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6313 Women's Chorus
1 Credit Hour. 0 Lecture Hours. 3-5 Lab Hours.
 A select choral ensemble for women open to majors and non-majors who demonstrate superior ability in the audition process.

MUSE 6314 Opera Theatre
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6411 Orchestra
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

MUSE 6414 String Ensemble
1 Credit Hour. 0 Lecture Hours. 1 Lab Hour.

MUSE 6511 Electronic Music Ensemble
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.
 None. MUSE courses do not have course descriptions in the catalog.

MUSE 6514 Accompanying
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

NMLI Nonprofit Mgnt, Lead Inno

NMLI 7339 Community Development
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course examines the history and theory behind the practice of community organizing, civic engagement, and public participation. Provides students with practical and effective community organization skills and civic engagement strategies.

NMLI 7432 Nonprofit Administration
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course examines the management of nonprofit organizations, with a focus on areas of management most different from the public sector, such as legal requirements, ethics, board governance, strategic management, and financial management.

NMLI 7652 Board Governance and Executive Leadership
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course provides an introduction to the fundamentals of governance, trusteeship, and executive leadership in nonprofit organizations. The course critically examines the principal models, processes, and practices used in governing nonprofit organizations and the relationships between the governing boards and executive leaders of such organizations.

NMLI 7653 Foundations of the Nonprofit Sector
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course surveys the history, scope and role of the nonprofit sector. Special attention is given to the economic, political and philanthropic theories of the nonprofit sector.

NMLI 7654 Strategic Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course examines the principal models, processes, and practices used in strategic management, familiarizing students with an essential management skill. The course focuses on the key internal and external factors that drive strategic management decisions within nonprofit and governmental organizations, including leadership, external resources, and stakeholder involvement.

NMLI 7655 Resource Development and Grant Writing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course introduces the tools, techniques, and strategies associated with the principles of successful fundraising for nonprofit organizations. The class also introduces students to the fundamentals of grant writing.

NMLI 7656 International Non-Governmental Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course introduces international nonprofit/non-governmental organizations and explores contemporary challenges these organizations face including issues of accountability, governance, effectiveness, and fundraising.

NMLI 7657 Theory and Practice of Philanthropy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course examines the theoretical framework for institutional philanthropy in the United States. The course explores the strategies, tools, and techniques for the role strategic philanthropy in both programming and policymaking. Provides students with insight into the work of philanthropy.

NTFS Nutrition and Food Science

NTFS 2514 Professional Practice Strategies
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.
 Presents an overview of the career opportunities in nutrition, food science and dietetics. Focuses on the development of personal and professional skills required for success in the profession.

NTFS 2515 Professional Etiquette
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.
 This course considers an introduction to professional etiquette and common courtesies in the field of nutrition and food science including effective verbal, nonverbal and virtual communication skills. The impact of diversity and cultural awareness in the workplace will be discussed. Special emphasis will be placed upon taking initiative, accepting and giving constructive criticism, and integrating internal attitudes with external behaviors. Students will also utilize these skills through active involvement in nutrition and food science professional organizations.
Prerequisite(s): NTFS 2514.

NTFS 2530 Nutrition and Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 The basic principles of nutrition and their application to health and wellness. The interrelationship between personal nutrition and health maintenance throughout the life cycle is included.

NTFS 2534 Introductory Food Science
3 Credit Hours. 0,1 Lecture Hours. 0,4 Lab Hours.
 Develops basic understanding of the principles of food preparation. Applies principles to food preparation for individuals, families and commercial food services.

NTFS 3534 Human Nutrition
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 The fundamental principles of human nutrition and their application to food selection are discussed. Emphasis is placed upon the recommended dietary allowances and other dietary guidelines which promote health maintenance and disease prevention.
Prerequisite(s): A minimum grade of "C" in CHEM 1211K.

NTFS 3535 Life Cycle Nutrition
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Investigates the role of nutrition and dietary factors on the growth, development and maintenance of health in individuals from birth through aging.
Prerequisite(s): A minimum grade of "C" in NTFS 2530 or NTFS 3534.

NTFS 3536 Meal Management
3 Credit Hours. 0,1 Lecture Hours. 0,4 Lab Hours.
 Principles of nutrition and food science are integrated with the management process in menu planning and quality meal service.
Prerequisite(s): Prior or concurrent enrollment with a minimum grade of "C" in NTFS 2534 and NTFS 3534 and ServSafe Manager Certification.

NTFS 3537 Advanced Food Science
3 Credit Hours. 0,1 Lecture Hours. 0,4 Lab Hours.
 Considers the chemical, physical, and biological properties of food ingredients. Emphasis is placed on investigating the relationship between preparation methods, proportions of ingredients and final product quality.
Prerequisite(s): A minimum grade of "C" in NTFS 2534 and NTFS 3534 and CHEM 3402 and BIOL 2240 and ServSafe Manager Certification.

NTFS 3538 Quantity Food Systems Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a general knowledge base of quantity food systems administration with a focus on leadership and managerial roles in financial, human resource, and procurement responsibilities. Knowledge and skills are developed in this course to prepare students for administrative positions in quantity food production and service and to prepare them for the application of quantity food production and service principles in a quantity food service facility.

Prerequisite(s): A minimum grade of "C" in ACCT 2030 and NTFS 3536.

NTFS 3630 Sports Nutrition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a basic understanding of the importance of nutrition in physical activity and sport performance. Topics will include energy metabolism during exercise, fluid intake and performance, common nutritional deficiencies for athletes/exercisers, and the role of nutritional supplements and ergogenic aids in physical activity.

Prerequisite(s): A minimum grade of "C" in NTFS 2530 or NTFS 3534.

NTFS 3631 Sustainable Foods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores factors that influence the local 'food system', including farming methods, food production and industrialization, distribution, economics, and politics. Also included in this course is a critical review of the current sustainable food issues of hunger and nutrition, food justice and sovereignty, fair trade, labor issue, farm-to-school/university, community supported agriculture, organic foods, GMO and cloned foods, and food and water safety in the food supply chain. Students participate in a service learning project with the local community garden, the local farmers market, and/or several local farmers to understand the real world application of sustainable foods.

NTFS 3730 Quantity Food Practicum**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Food science theories and principles are applied in an institutional foodservice facility. Food service production and techniques are developed in this course as are skills in the application of sanitation regulations.

Prerequisite(s): A minimum grade of "C" in NTFS 3538 and ServSafe Manager Certification.

NTFS 4195 International Studies Abroad in Health and Kinesiology**3-9 Credit Hours. 3-9 Lecture Hours. 0 Lab Hours.**

This course offers students the opportunity to examine health, nutrition and food science, or kinesiology practices in a foreign country through travel abroad. Classroom instruction will be combined with on-site experiences to provide a realistic learning experience.

Prerequisite(s): Junior or Senior status.

NTFS 4533 Applied Nutrition Therapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Investigates the application of nutrition principles in the treatment of chronic diseases in humans. Course content focuses on nutrition screening, assessment, and management of metabolic and endocrine disorders including obesity, metabolic syndrome, and diabetes; cardiovascular ailments including hypertension, hyperlipidemia, and atherosclerosis; hematologic conditions including anemia, and other diseases including cancer and stroke. Evidence-based nutrition research is utilized to discern the facts and fallacies associated with current topics comprising complementary and alternative medicine, supplements, and fad diets. Disease-specific information highlighting dietary strategies and nutrition intervention to promote optimal health and wellness are an integral component of the course.

Prerequisite(s): NTFS 3535.

NTFS 4534 Medical Nutrition Therapy I**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Investigates the role and benefits of nutritional support and therapy in the metabolic and pathophysiological changes associated with disease in humans. Teaches the application and documentation of the nutritional care process to the needs of patients. Emphasis is placed upon energy in-balance, drug nutrient interactions, metabolic disorders, and gastrointestinal, hepato-biliary, endocrine, and cardiovascular diseases. Students will demonstrate the skills needed to apply the principles of medical nutrition therapy to clinical situations through laboratory experiences.

Prerequisite(s): A minimum grade of "C" in all of the following: KINS 2533 and NTFS 3535 and NTFS 3536 and prior or concurrent enrollment in NTFS 4536.

NTFS 4535 Community Nutrition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the role of nutritionists in the delivery of nutrition services through community agencies and health and wellness programs. Planning, implementation, monitoring and evaluation of community-based programs are emphasized. The role of government and the impact of the legislative process on the provision of services is examined.

Prerequisite(s): A minimum grade of "C" in NTFS 2530 or NTFS 3534.

NTFS 4536 Metabolic Nutrition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Considers the principles of nutrition science with special emphasis on integration of macro and micronutrient.

Prerequisite(s): A minimum grade of "C" in BCHM 3200 and KINS 2511 and KINS 2512 and KINS 2531 and KINS 2532 and NTFS 3534 or permission of instructor.

NTFS 4537 Experimental Food Science**3 Credit Hours. 0,1 Lecture Hours. 0,4 Lab Hours.**

Considers the effects of composition, handling, and preparation techniques on food product quality. Emphasis is placed on basic concepts of research methodology, statistical analysis, and preparation of detailed technical reports.

Prerequisite(s): A minimum grade of "C" in NTFS 3537 and STAT 1401.

NTFS 4538 Medical Nutrition Therapy II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Investigates the role and benefits of nutritional support and therapy in the metabolic and pathophysiological changes associated with disease in humans. Teaches the application and documentation of the nutritional care process to the needs of patients. Emphasis is placed upon sepsis, burns, trauma, cancer, immune and neurological disorders, hypertension, anemia, pulmonary, bone, and renal diseases, soft tissue disorders and diseases as well as adaptive feeding techniques and specialized equipment, parenteral and enteral nutrition, and complementary/alternative nutrition and herbal therapies. Students will demonstrate the skills needed to apply the principles of medical nutrition therapy to clinical situations through laboratory experiences.

Prerequisite(s): A minimum grade of "C" in NTFS 4534.

NTFS 4539 Issues and Trends in Food Science**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of current trends and issues in the field of food science and technology. Issues related to product development, marketing and regulations and standards will be addressed.

Prerequisite(s): A minimum grade of "C" in NTFS 3537.

NTFS 4610 Nutrition and Food Science Senior Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Provides nutrition and food science seniors in the Community Nutrition and Food Science/Food Systems Administration emphases with a colloquium in which to prepare and deliver presentations in trends and issues in the field of nutrition and food science in a seminar forum. The course also includes preparation in the process of gaining employment. Resume writing, portfolio compilation and review, and interviewing skills will be discussed.

Prerequisite(s): A minimum grade of "C" in NTFS 2514 and Senior status.

NTFS 4611 Dietetics Senior Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Provides nutrition and food science seniors in the dietetics emphasis with a colloquium in which to prepare and deliver presentations in trends and issues in the field of dietetics. The course also includes the process of preparing applications for dietetics internships. Resume writing, portfolio compilation, and interviewing skills will be discussed.

Prerequisite(s): A minimum grade of "C" in NTFS 2514 and Senior status and Admission to the Dietetics Emphasis in the B.S. Nutrition/Food Science program.

NTFS 4630 Cultural Foods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the relationship between food and nutrition, history, geography, culture and traditions, religion, communication, and acculturation. This course includes the study of cultural parameters and current issues that have shaped and continue to influence foodways - food availability, farming and food production practices, economics, politics, globalization, and sustainability. Students will also examine their own heritage and family dynamics to better understand their personal food, nutrition, and health beliefs and practices.

NTFS 4899 Directed Individual Study**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides the student with the opportunity to investigate an area of interest under the direction of a faculty mentor. Permission of instructor.

NTFS 6110 Culinary Skills**1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

This course provides students with an understanding and application of the concepts of the basic principles of cooking, baking, and kitchen operations. In conjunction with the Georgia Southern Dietetic Internship, this course provides the knowledge and skills for direct application in supervised practice experiences and other food and nutrition settings.

Prerequisite(s): Acceptance in the Georgia Southern Dietetic Internship or permission of the instructor.

NTFS 7331 Applied Food Science**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Considers basic principles of food science, including their sensory and financial evaluation, for direct application in food and nutrition settings.

Prerequisite(s): Admission to the MS in Nutrition and Foods program.

NTFS 7333 Research Methods in Nutrition and Foods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the scientific method and its application to nutrition and foods research. Emphasis will be placed upon experimental design and statistical analysis, regulations and ethics, and proposal writing.

NTFS 7334 Applied Medical Nutrition Therapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an advanced focus on medical nutrition therapy to help students successfully apply the Nutrition Care Process to individuals from all life stages and disease states. In conjunction with the Georgia Southern Dietetic Internship, this course provides the knowledge for direct application and experience in the clinical nutrition setting.

Prerequisite(s): Acceptance in the Georgia Southern Dietetic Internship.

NTFS 7335 Public Health & Community Nutrition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a focused and critical review of concepts applicable to public health and community nutrition - nutritional epidemiology; community needs assessment; public policy; federal, state, and local nutrition programs; program planning and management; nutrition requirements and services for infants, children, adolescents, adults and elderly; and food security & food supply in the U.S. Further, the role of nutrition education in improving public health and its application in developing nutrition intervention programs will be discussed. This course includes an emphasis on the role of the Registered Dietitian Nutritionist in health promotion and disease prevention in the public arena.

NTFS 7336 School Nutrition Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a focused, critical review and analysis of concepts applicable to school nutrition administration - legislation and regulations; organizational leadership and management; human and financial resource management; menu planning; sustainability; facility design; procurement; food production; program planning, implementation, and evaluation; marketing; and nutrition education. This course includes a special emphasis on the role of the Registered Dietitian in school nutrition administration. In conjunction with the Georgia Southern Dietetic Internship, this course provides the knowledges and skills for the direct application and experience in the school nutrition setting.

Prerequisite(s): Acceptance into the Georgia Southern University Dietetic Internship.

NTFS 7337 Macronutrient Metabolism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines macronutrients at an advanced level with respect to their requirements, metabolism, and function for optimal health.

Prerequisite(s): Undergraduate coursework in Human Anatomy and Physiology and Biochemistry.

Cross Listing(s): KINS 7337.

NTFS 7338 Micronutrient Metabolism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course considers micronutrient metabolism in sports nutrition at an advanced level with respect to the metabolism, function, and requirements of micronutrients for physical activity.

Prerequisite(s): A minimum grade of "C" in KINS 7337 and acceptance into the Georgia Southern University Dietetic Internship.

NTFS 7339 Energy Balance for Weight Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course analyzes the importance of energy balance in weight management as well as investigates genetic, metabolic, environmental factors that contribute to overweight and obesity. Physiological and psychological consequences of overweight and obesity as well as the roles of diet, behavior, and exercise in its prevention and treatment will be discussed. Special emphasis will be placed on the application of weight management theory to the development, presentation, and analysis of weight loss and weight maintenance protocols.

Prerequisite(s): A minimum grade of "C" in KINS 7238 and acceptance into the Georgia Southern University Dietetic Internship.

NTFS 7430 Health Behavior in Nutrition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a focused and critical review of concepts applicable to working with clients in nutrition education and nutrition counseling settings to promote behavior change. This course includes a special emphasis on theories of health behavior change and on promoting health behavior change through motivational interviewing.

NTFS 7431 Nutrition Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students critically review theory, strategies, and techniques to enhance the effectiveness of nutrition education. Students gain skills in translating evidence-based science into formats appropriate for various audiences, creating learning objectives and assessing learning outcomes. Use of new pedagogy methods and digital education platforms will be explored.

NTFS 7611 Graduate Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course provides the student with an in-depth literature review and discussion of contemporary topics in the field of nutrition and foods. Students will present their comparative analysis.

Prerequisite(s): Admission to the Masters of Nutrition and Foods.**NTFS 7612 Professional Development****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

In this course, students take a comprehensive examination. The comprehensive examination will consist of essay and multiple-choice questions taken from a pool of questions from each of the Graduate Nutrition and Foods core curriculum courses. This course also addresses issues related to a student's professional development and preparation for the registration examination for dietitians.

Prerequisite(s): Students will be deemed eligible to take comprehensive examination during their final semester of study if they have cumulative graduate-level 3.0 GPA and earned a C or better in required courses covered in the examination.

NTFS 7613 Dietetic Internship Orientation**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course provides students with opportunities for skill development for completing supervised practice experience in accordance with the Accreditation Council for Education in Nutrition and Dietetics (ACEND) requirements.

Prerequisite(s): Admission to the Georgia Southern University Dietetic Internship.**NTFS 7790 Practicum in Nutrition and Dietetics****1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Permits the student to receive minimum 1200 hours supervised practice experience in accordance with Accreditation Council for Education in Nutrition and Dietetics (ACEND) requirements. The Internship Director establishes the practicum schedule providing sufficient opportunity for the student to demonstrate the ACEND core competencies needed for entry-level practice as a registered dietitian nutritionist. Individual and group meetings and on-line learning models are incorporated to enhance supervised practice learning. Recommend dietetic interns enroll in 2-credits Fall and Spring semester reflecting 32-40 hour per week supervised practice experience.

Prerequisite(s): Acceptance into the Georgia Southern University Dietetic Internship.

NURS Nursing

NURS 3101 Skills and Essentials of Nursing Practice**5 Credit Hours. 3 Lecture Hours. 6 Lab Hours.**

Building on a sound foundation derived from the liberal arts, sciences and nursing, this integrated theory/practicum course explores evidence based fundamental concepts and skills related to the provision of safe and competent nursing care for culturally diverse populations. The practicum component provides students the opportunity to integrate theory with clinical practice, using the nursing process with adult patients, to develop clinical reasoning via simulated and experiential learning opportunities in a variety of clinical settings. The course framework incorporates the Quality and Safety Education for Nursing (QSEN), the Essentials of Baccalaureate Nursing Education for Professional Practice, and the current American Nurses' Association Nursing: Scope and Standards of Practice (2015).

Prerequisite(s): Accepted in Nursing Program.**NURS 3102 Health Assessment****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

This course focuses on the application of interviewing and physical exam techniques for the health assessment of the adult population. The didactic and experiential components allow students the opportunity to learn and practice interviewing/communication skills and physical exam techniques to assess a clients' wellbeing, health and illness, and safety from a health promotion focus. Emphasis is on the acquisition and application of learning normal assessment findings, as well as recognizing and differentiating abnormal findings when caring for clients.

Prerequisite(s): Accepted in Nursing Program.**NURS 3103 Professional Nursing Practice****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course is for the beginning nursing student. Major concepts, providing a foundation for professional nursing practice, which are used throughout the curriculum, are introduced and explored. Emphasis is on the acquisition of basic nursing concepts for the performance of safe and appropriate therapeutic and caring nursing practice for a culturally diverse population. The course framework for professional nursing practice and professional role activities is developed from the current American Nurses' Association: Nursing: Scope and Standards of Practice and the Quality and Safety Education for Nursing (QSEN).

Prerequisite(s): Accepted in Nursing Program.**NURS 3104 Pharmacology I****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The course provides the student with an introduction to the basic principles of pharmacology and other therapeutic modalities appropriate to culturally diverse populations across the lifespan. Ethical, legal, and teaching responsibilities regarding medication management are delineated. Emphasis is placed on roles and responsibilities of the nurse in collaboration with the multidisciplinary team to facilitate health promotion and safe administration of pharmaceuticals. An introduction to the pharmacokinetic and pharmacodynamics of drug classifications and select medications are addressed.

Prerequisite(s): Accepted in Nursing Program.**NURS 3105 Pharmacology II****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The course builds from Pharmacology I, providing students with the assessment and management of medications for a diverse population of adults with chronic and acute illness. Ethical, legal, and teaching responsibilities regarding medication management are delineated. Emphasis is placed on roles and responsibilities of the nurse in collaboration with the multidisciplinary team to facilitate health promotion and safe administration of pharmaceuticals. Correlating diseases and disorders to common medication treatment plans is initiated at this level.

Prerequisite(s): A minimum grade of "C" in NURS 3101, NURS 3102, NURS 3103, NURS 3104.**NURS 3107 Adult Health Nursing I****7 Credit Hours. 4 Lecture Hours. 9 Lab Hours.**

This course builds on a previously acquired foundation derived from the liberal arts, sciences and nursing to apply the nursing process to the holistic care of culturally diverse adult patients and families who are experiencing simple to chronic alterations in health. Clinical experiences provide students with the opportunity to develop critical thinking skills and implement appropriate evidence based therapeutic nursing interventions towards the goal of restoring, promoting and maintaining the health of patients in a variety of geographical settings.

Prerequisite(s): A minimum grade of "C" in NURS 3101, NURS 3102, NURS 3103, NURS 3104.

NURS 3108 Mental Health Nursing**5 Credit Hours. 3 Lecture Hours. 6 Lab Hours.**

This course promotes mental health as a dynamic construct occurring on a continuum. Students strengthen their knowledge of and appreciation for the interaction of the mind, body, and spirit in psychiatric/mental health nursing as well as all other nursing specialties. The roles of the professional nurse in risk reduction for mental health disorders, health promotion, and recovery are examined in both didactic and clinical settings. Utilizing a health promotion framework and the American Nurses' Association's Scope and Standards of Practice, students incorporate theories and frameworks from the liberal arts, sciences, and nursing to apply the nursing process in providing mental health nursing care to individuals, families, groups, and the community. Students learn the role of the baccalaureate nurse on interdisciplinary teams in mental healthcare. Emphasis is on developing therapeutic communication skills and collaborative relationships that support individuals to achieve or return to optimal wellness and function.

Prerequisite(s): A minimum grade of "C" in NURS 3101, NURS 3102, NURS 3103, NURS 3104.

NURS 3150L Prof Role Trans:Comm Lab**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3197 Professional Nursing Practice****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to enhance and facilitate the development of the RN student to the role of a BSN prepared professional nurse. The focus is on developing personal and professional growth to promote better advocacy, critical thinking, educator skills, effective communication, and leadership abilities in a complex healthcare environment. Course content includes concepts from historical contributions and theories that have guided the profession, to promoting professional philosophies, visions, and practices to help prepare for future trends in healthcare. Topics relate to culture and diversity, professional ethics, political and legal issues in nursing, and technology. Students will apply knowledge of standards of practice, evidence-based practice, and caring science to course topics.

Prerequisite(s): Admission to the RN-BSN program.

NURS 3297 Nursing Research Application**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide the registered nurse with an overview of the major research concepts as applied to the profession of nursing, to scholarship, and to clinical practice. Analysis, critique, and interpretation of qualitative and quantitative research approaches, including ethical implications, for evidence-based nursing practice will be examined. Emphasis is placed on how to critique, analyze, and apply published and empirical research findings to evidence-based nursing practice.

NURS 3300L Health Assess Promo Well Lab**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3304L Professional Nursing Prac-Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3306L Transitional Concepts Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3310L Nurs Health Promo Lifespan Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3320L Health Assess Well Indiv Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3321L Healt Assm of the Well Ind Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3330 Leadership in Nursing Care****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Leadership role of the professional nurse in the management of health care.

NURS 3334L Skills & Esntls of Nurs Pr Lab**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3340L Family Health Promotion Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3344L Skills/Essen Of Nurs Prac Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3345L Adult Health I Lab****0 Credit Hours. 0 Lecture Hours. 9 Lab Hours.****NURS 3346L Adult Health I Lab****0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.****NURS 3350L Health Prom Women & Child Lab****0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

Corequisite(s): NURS 3360L.

NURS 3352 Pharmacology/Pathophys I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

pharmacology and pathophysiology with emphasis on implications for nursing practice using the concepts of inflammation and immunity, fluid and electrolytes and perception and coordination.

Prerequisite(s): A minimum grade of "C" in BIOL 2081 and BIOL 2082.

NURS 3354 Pharmacology/Pathophys II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Pharmacology and pathophysiology with emphasis on implications for nursing practice using the concepts of oxygenation and metabolism.

Prerequisite(s): A minimum grade of "C" in BIOL 2081 and BIOL 2082 and BIOL 2275.

NURS 3360L Health Main & Rehab Lab**0 Credit Hours. 0 Lecture Hours. 9 Lab Hours.**

Corequisite(s): NURS 3350L.

NURS 3375 Adult Health II**5 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Nursing care of the adult with alterations in oxygenation and metabolism in a variety of clinical settings.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in NURS 3354.

NURS 3397 Health Assessment**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a study of the advanced knowledge and skills beyond the Associates' degree in Nursing, designed to enhance health assessment for nursing practice in the care of individuals across the lifespan. Theory and skills essential to completing a comprehensive and holistic health history and physical examination are emphasized. In addition, the holistic delivery of care will include cultural, spiritual, nutritional, alternative, complementary therapies, and health promotion for the delivery of safe and person-centered care. The importance of comprehensive and accurate documentation as a tool for effective communication amongst the interdisciplinary team is reviewed.

NURS 3425L Children's Health Lab**0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.****NURS 3450L Health Care of Families Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 3535L Mental Health Lab****0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Corequisite lab with NURS 3535.

NURS 3536L Mental Health Lab**0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.****NURS 4004L Health Assessment Lab****0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 4005L Pop Focus Com Nsg/GI Soc Lab****0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

NURS 4106 Pharmacology III**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The final course of this trilogy continues with emphasis on roles and responsibilities of the nurse in collaboration with the multidisciplinary team to facilitate health promotion and safe administration of pharmaceuticals for a diverse population of adults and children. Ethical, legal, and teaching responsibilities regarding medication management are delineated and expand to the concepts of care in the community settings. The students are expected to address medication reconciliation and crisis situations that may arise.

Prerequisite(s): A minimum grade of "C" in NURS 3105, NURS 3107, NURS 3108.

NURS 4109 Women's and Children's Nursing**6 Credit Hours. 4 Lecture Hours. 6 Lab Hours.**

This course concentrates on health promotion, disease prevention, and health risk reduction of children and women from diverse populations. A family centered focus is used to guide the student's understanding of the childbearing family from preconception through labor and delivery and care of the neonate, as well as children and their families. Care and health restoration of the woman and family with an at-risk pregnancy is also addressed. The role of the nurse as practitioner, educator, collaborator in acute care and various community settings is underscored. The framework for professional practice and professional role activities is developed from the current American Nurses Association's Nursing: Scope and Standards of Practice.

Prerequisite(s): A minimum grade of "C" in NURS 3105 and NURS 3107 and NURS 3108.

NURS 4110 Community Health Nursing**5 Credit Hours. 3 Lecture Hours. 6 Lab Hours.**

This course provides the student with a foundation of community nursing roles and essential skills for entry level public health nursing with a focus on population health and wellness. Knowledge and value of human diversity are held as essential concepts as students apply the nursing process with individuals, families, aggregates, and communities. Theories and concepts from public health and nursing science are applied to risk reduction, disease prevention, and health promotion. The impact of political systems and regulatory agencies on health disparities are examined at the global, national, regional and local levels.

Prerequisite(s): A minimum grade of "C" in NURS 3105 and NURS 3107 and NURS 3108.

NURS 4111 Adult Health Nursing II**7 Credit Hours. 4 Lecture Hours. 9 Lab Hours.**

This course builds on a previously acquired foundation derived from the liberal arts, sciences and nursing to apply the nursing process to the holistic care of culturally diverse adult patients and families who are experiencing complex alterations in health. Clinical experiences provide students with the opportunity to develop critical thinking skills and implement appropriate evidence based therapeutic nursing interventions towards the goal of restoring, promoting and maintaining the health of patients in a variety of geographical settings.

Prerequisite(s): A minimum grade of "C" in NURS 4106 and NURS 4109 and NURS 4110.

NURS 4112 Leadership & Management Capstone**6 Credit Hours. 3 Lecture Hours. 9 Lab Hours.**

The focus of this course is to prepare students to assume a leadership role in the management of nursing care in multidisciplinary healthcare environments. The principles of critical thinking and evidence based nursing practice are utilized in the care of groups of clients and families with Health/Illness variations within a culturally diverse and complex healthcare delivery system. Course content includes management and leadership theories and skills, change strategies, healthcare technology, and role transition strategies to assist the new professional nurse. The framework for professional practice and professional role activities is developed from the American Nurses Association Nursing: Scope and Standards of Practice.

Prerequisite(s): A minimum grade of "C" in NURS 4106 and NURS 4109 and NURS 4110.

NURS 4113 Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The focus of this course is on the research process and enhancement of critical thinking skills. Students learn to critique, analyze, and apply research findings to health promotion of persons, families, groups, and communities. The relationship of nursing research to nursing theory and practice is explored.

Prerequisite(s): A minimum grade of "C" in NURS 3101 or NURS 4201.

NURS 4114 Critical Analysis**1 Credit Hour. 0 Lecture Hours. 3 Lab Hours.**

This course facilitates the application, analysis, and synthesis of essential nursing knowledge and skills for use in professional practice. The framework for professional practice and professional role activities is developed from the current ANA, Nursing Scope and Standards of Practice and the AACN, Essentials of Baccalaureate Nursing Education.

Prerequisite(s): A minimum grade of "C" in NURS 4106 and NURS 4109 and NURS 4110.

NURS 4115 Nursing and Service Learning in Costa Rica**3 Credit Hours. 0 Lecture Hours. 9 Lab Hours.**

This course is a 4 week course with 10 days study in Costa Rica. The course consists of lecture, supervised field/clinical observations, service learning, course-related excursions, and cultural and historical activities. The course integrates transcultural health and service learning to provide students with a deeper and more meaningful experience. Students receive foot-care training and education to provide care to vulnerable population to improve quality of health outcomes. Students engage in experiential cultural learning to gain understanding of the interdependent nature of the contemporary world, to develop an appreciation for different cultures, and to help students sharpen their skills as critical thinkers and effective communicators. The outcome of the course is to enrich students' personal growth, self-awareness, and appreciation for cultural differences. The course is open to pre#nursing, nursing, health related, and other majors.

NURS 4116 Honors Project I**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Independent exploration of nursing problems and practice issues under the guidance of a faculty mentor.

NURS 4117 Honors Project II**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Implementation and evaluation of the project with a selected population under the guidance of a faculty member.

NURS 4118 Honors Project III**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Presentation of the honor's project to a selected group.

NURS 4119 Independent Study-Undergraduate**6 Credit Hours. 0-6 Lecture Hours. 0-18 Lab Hours.**

The student, in consultation with the professor, selects a topic and submits a proposal for supervised independent study.

NURS 4120 Special Topics-Undergraduate**6 Credit Hours. 0-6 Lecture Hours. 0-18 Lab Hours.**

The professor offers a course in a selected topic for qualifying students.

NURS 4121 Strategies for Success in Professional Nursing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This elective course provides an opportunity for students to develop strategies for success in nursing. Learning style, study and testing techniques to enhance academic and professional performance are explored.

Prerequisite(s): Permission of instructor.**NURS 4122 Foundations of Healthcare Informatics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to information technologies and systems that support healthcare delivery. Emphasis will be placed on utilizing health information technology to support decision-making, improve communication, and manage knowledge.

Prerequisite(s): Permission of instructor.**NURS 4123 Legal and Ethical Issues in Nursing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the legal and ethical rights, responsibilities, and obligations of the practicing nurse in a changing health environment.

Prerequisite(s): Permission of instructor.**NURS 4124 Gerontology in the 21st Century****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explore Normal aging, theories of aging, and the effect society has on the increasing geriatric population.

Prerequisite(s): Permission of instructor.**NURS 4125 Vulnerable Populations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of vulnerable populations and the role of the nurse in the health care of the populations.

Prerequisite(s): Permission of Instructor.**NURS 4126 International Nursing Issues and Trends****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the influence of culture, economics, politics, and technology on global health.

Prerequisite(s): Permission of Instructor.**NURS 4127 Introduction to Forensic Nursing and the Law****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an introduction to the principles of forensic nursing and the legal issues related to nursing practice.

Prerequisite(s): Permission of Instructor.**NURS 4128 Complementary and Integrative Health Approaches****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of complementary and integrative health approaches used in holistic health practices and healing to include: natural products, mind, body, spirit practices, and energy therapies will be presented. Safety considerations and evidenced-based practice guidelines will be discussed. Integration of complementary therapies into nursing care of those with chronic diseases as well as a method of health promotion and disease prevention will be explored. The framework for professional practice and professional role activities is developed from the current American Nurses Association Nursing: Scope and Standards of Practice.

Prerequisite(s): Permission of instructor.**NURS 4129 Multiculturalism in Health Care****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores multicultural factors within a healthcare context.

Prerequisite(s): Permission of instructor.**NURS 4130 Home Health Nursing****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

Therapeutic nursing interventions of clients in the home setting.

Prerequisite(s): Permission of instructor.**NURS 4131 Population Health Care Strategies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Overview of the levels of prevention, epidemiological principles and their impact on health promotion and disease prevention. A major focus is primary prevention relative to exercise/activity. Emphasis is placed on the clinical application of activity for improving health.

Prerequisite(s): Junior/Senior level or permission of instructor.**NURS 4132 Critical Care****3 Credit Hours. 1 Lecture Hour. 6 Lab Hours.**

Nursing care of the adult client in critical care settings with life threatening alterations in health. Emphasis is placed on the role of the professional nurse in the restorations and maintenance of health with clients and their families experiencing critical illness.

Prerequisite(s): Permission of instructor.**NURS 4133 Perioperative Nursing****3 Credit Hours. 1 Lecture Hour. 6 Lab Hours.**

Explores the role of nursing in the perioperative setting.

Prerequisite(s): Permission of instructor.**NURS 4134 Nursing Perspectives: Then, Now, and the Future****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analyzes the influences of significant historical nursing figures through present day as it influences the future of nursing.

Prerequisite(s): Permission of instructor.**NURS 4135 Women and Leadership in Nursing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores historical and contemporary perspectives and attitudes of women as nurses and leaders.

Prerequisite(s): Permission of instructor.**NURS 4136 Nursing Practice in the Military****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examine the social, political, environmental, and global impact of military warfare on nursing practice in context of nursing leadership, practices and traditions.

Prerequisite: Permission of instructor.**NURS 4137 Pediatric Nursing Externship****3 Credit Hours. 0 Lecture Hours. 9 Lab Hours.**

Nursing care in the complex pediatric client in the acute care setting.

Prerequisite(s): Permission of instructor.**NURS 4138 Maternal/Infant Nursing Externship****3 Credit Hours. 0 Lecture Hours. 9 Lab Hours.**

Nursing care of the complex obstetric and neonatal client in the acute care setting.

Prerequisite(s): Permission of the instructor.**NURS 4139 Medical-Surgical Oncology Nursing Externship****3 Credit Hours. 0 Lecture Hours. 9 Lab Hours.**

Nursing care of the complex oncological client in the acute care setting.

Prerequisite(s): Permission of the instructor.**NURS 4140 Medical-Surgical Neuroscience Nursing Externship****3 Credit Hours. 1 Lecture Hour. 6 Lab Hours.**

Nursing care of the complex neurological client in the acute care setting.

Prerequisite(s): Permission of the instructor.**NURS 4141 Medical-Surgical Complex Medical Nursing Externship****3 Credit Hours. 0 Lecture Hours. 9 Lab Hours.**

Nursing care of the client with co-morbid conditions in the acute care setting.

Prerequisite(s): Permission of instructor.**NURS 4142 Health Promotion Through the Life Span****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The professional nurse's role in population-focused healthcare for individuals, families, and communities through the lifespan.

Prerequisite(s): Permission of instructor.

**NURS 4201 Skills and Essentials of Nursing Practice
5 Credit Hours. 3 Lecture Hours. 6 Lab Hours.**

Building on a sound foundation derived from the liberal arts, sciences and nursing, this integrated theory/practicum course explores evidence based fundamental concepts and skills related to the provision of safe and competent nursing care for culturally diverse populations. The practicum component provides students the opportunity to integrate theory with clinical practice, using the nursing process with adult patients, to develop clinical reasoning via simulated and experiential learning opportunities in a variety of clinical settings. The course framework incorporates the Quality and Safety Education for Nursing (QSEN), the Essentials of Baccalaureate Nursing Education for Professional Practice, and the current American Nurses Association Nursing: Scope and Standards of Practice (2015).

NURS 4202 Health Assessment

4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.

This course focuses on the application of interviewing and physical exam techniques for the health assessment of the adult population. The didactic and experiential components allow students the opportunity to learn and practice interviewing/communication skills and physical exam techniques to assess a clients' wellbeing, health and illness, and safety from a health promotion focus. Emphasis is on the acquisition and application of learning normal assessment findings, as well as recognizing and differentiating abnormal findings when caring for clients. The framework for professional practice and professional role activities is developed from the current American Nurses Association Nursing: Scope and Standards of Practice.

NURS 4203 Professional Nursing Practice

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is for the beginning nursing student. Major concepts, providing a foundation for professional nursing practice which are used throughout the curriculum, are introduced and explored. Emphasis is on the acquisition of basic nursing concepts for the performance of safe and appropriate therapeutic and caring nursing practice for a culturally diverse population. The course framework for professional nursing practice and professional role activities is developed from the current American Nurses' Association: Nursing: Scope and Standards of Practice and the Quality and Safety Education for Nursing (QSEN). The curriculum framework meets the Commission on Collegiate Nursing Accreditation: Essentials of Baccalaureate Nursing Education.

NURS 4204 Comprehensive Pharmacology

5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.

The course provides the student with a foundation of the basic principles of pharmacology and other therapeutic modalities appropriate to culturally diverse populations across the lifespan. Ethical, legal, and teaching responsibilities regarding medication management are delineated. Emphasis is placed on roles and responsibilities of the nurse in collaboration with the multidisciplinary team to facilitate health promotion and safe administration of pharmaceuticals. An introduction to the pharmacokinetic and pharmacodynamics of drug classifications providing students with the assessment and management of medications for a diverse population of adults with chronic and acute illness. Correlating diseases and disorders to common medication treatment plans is emphasized.

NURS 4207 Adult Health Nursing I

7 Credit Hours. 4 Lecture Hours. 9 Lab Hours.

This course builds on a previously acquired foundation derived from the liberal arts, sciences and nursing to apply the nursing process to the holistic care of culturally diverse adult patients and families who are experiencing simple to chronic alterations in health. Clinical experiences provide students with the opportunity to develop critical thinking skills and implement appropriate evidence based therapeutic nursing interventions towards the goal of restoring, promoting and maintaining the health of patients in a variety of geographical settings.

Prerequisite(s): A minimum grade of "C" in NURS 4201 and NURS 4202 and NURS 4203.

NURS 4208 Mental Health Nursing

6 Credit Hours. 3 Lecture Hours. 9 Lab Hours.

This course promotes mental health as a dynamic construct occurring on a continuum. Students strengthen their knowledge of and appreciation for the interaction of the mind, body, and spirit in psychiatric/mental health nursing as well as all other nursing specialties. The roles of the professional nurse in risk reduction for mental health disorders, health promotion, and recovery are examined in both didactic and clinical settings. Utilizing a health promotion framework and the American Nurses' Association's Scope and Standards of Practice, students incorporate theories and frameworks from the liberal arts, sciences, and nursing to apply the nursing process in providing mental health nursing care to individuals, families, groups, and the community. Students learn the role of the baccalaureate nurse on interdisciplinary teams in mental healthcare. Emphasis is on developing therapeutic communication skills and collaborative relationships that support individuals to achieve or return to optimal wellness and function.

Prerequisite(s): A minimum grade of "C" NURS 4201 and NURS 4202 and NURS 4203 and NURS 4204.

NURS 4209 Women's & Children's Nursing

6 Credit Hours. 4 Lecture Hours. 6 Lab Hours.

This course concentrates on health promotion, disease prevention, and health risk reduction of children and women from diverse populations. A family centered focus is used to guide the student's understanding of the childbearing family from preconception through labor and delivery and care of the neonate, as well as children and their families. Care and health restoration of the woman and family with an at-risk pregnancy is also addressed. The role of the nurse as practitioner, educator, collaborator in acute care and various community settings is underscored. The framework for professional practice and professional role activities is developed from the current American Nurses' Association Nursing: Scope and Standards of Practice.

NURS 4210 Community Health Nursing

5 Credit Hours. 3 Lecture Hours. 6 Lab Hours.

This course provides the student with a foundation of community nursing roles and essential skills for entry to level public health nursing with a focus on population health and wellness. Knowledge and value of human diversity are held as essential concepts as students apply the nursing process with individuals, families, aggregates, and communities. Theories and concepts from public health and nursing science are applied to risk reduction, disease prevention, and health promotion. The impact of political systems and regulatory agencies on health disparities are examined at the global, national, regional and local levels.

Prerequisite(s): A minimum grade of "C" NURS 4201 and NURS 4202 and NURS 4203 and NURS 4204 and NURS 4207 and NURS 4208 and NURS 4209.

NURS 4211 Adult Health Nursing II

7 Credit Hours. 4 Lecture Hours. 9 Lab Hours.

This course builds on a previously acquired foundation derived from the liberal arts, sciences and nursing to apply the nursing process to the holistic care of culturally diverse adult patients and families who are experiencing complex alterations in health. Clinical experiences provide students with the opportunity to develop critical thinking skills and implement appropriate evidence based therapeutic nursing interventions towards the goal of restoring, promoting and maintaining the health of patients in a variety of geographical settings.

Prerequisite(s): A minimum grade of "C" in NURS 4201 and NURS 4202 and NURS 4203 and NURS 4204 and NURS 4207.

NURS 4212 Leadership and Management Capstone
6 Credit Hours. 3 Lecture Hours. 9 Lab Hours.

The focus of this course is to prepare students to assume a leadership role in the management of nursing care in multidisciplinary healthcare environments. The principles of critical thinking and evidence based nursing practice are utilized in the care of groups of clients and families with Health/Illness variations within a culturally diverse and complex healthcare delivery system. Course content includes management and leadership theories and skills, change strategies, healthcare technology, and role transition strategies to assist the new professional nurse. The framework for professional practice and professional role activities is developed from the American Nurses' Association, Nursing: Scope and standards of practice, (3rd ed.).

Prerequisite(s): A minimum grade of "C" in NURS 4201 and NURS 4202 and NURS 4203 and NURS 4204 and NURS 4207 and NURS 4208 and NURS 4209 and NURS 4211.

NURS 4214 Critical Analysis

1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

This course facilitates the application, analysis, and synthesis of essential nursing knowledge and skills for use in professional practice. The framework for professional practice and professional role activities is developed from the current ANA, Nursing Scope and Standards of Practice and the AACN, Essentials of Baccalaureate Nursing Education.

Prerequisite(s): A minimum grade of "C" in NURS 4201 and NURS 4202 and NURS 4203 and NURS 4204 and NURS 4207 and NURS 4208 and NURS 4209 and NURS 4211.

NURS 4215L Home Health Nursing Lab

0 Credit Hours. 0 Lecture Hours. 1 Lab Hour.

NURS 4217L Critical Care Lab

0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.

NURS 4218L Perioperative Nursing Lab

0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.

NURS 4224L Med-Surg Onc Nurs Extern Lab

0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.

NURS 4225L Med-Surg Onc Nurs Extern Lab

0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.

NURS 4226L Med-Surg Comp Nurs Extern Lab

0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.

NURS 4301 Conceptual Basis of Nursing

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course provides an introduction to the conceptual basis of professional nursing. The concepts of person, nursing, health, environment, health promotion, human caring, communication, ethical principles, critical thinking, empowerment, research, cultural sensitivity, and healthcare technology are explored and applied to specific case situations. The student is exposed to the historical aspects of nursing and healthcare, with emphasis on the rural environment, as well as evidenced-based nursing practice, patient safety and quality, healthcare policy, and financial implications in the current healthcare arena. Healthcare delivery systems, barriers to healthcare, and legal aspects of nursing are discussed. The ANA Scope and Standards of Practice are introduced in this course with specific emphasis on caring and ethics.

Prerequisite(s): Admission to the RN-BSN program or Permission of the Program Director.

NURS 4302 Health Assessment

3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.

Focuses on refinement of the application of interviewing and physical exam techniques for the health assessment of the adult population. The didactic and experiential components allow students the opportunity to learn and practice interviewing/communication skills and physical exam techniques to assess a clients' wellbeing, health, illness, and safety with a health promotion focus. Emphasis is on the acquisition and application of learning normal assessment findings, as well as recognizing and differentiating abnormal findings when caring for clients. The framework for professional practice and professional role activities is developed from the current American Nurses' Association Nursing: Scope and Standards of Practice.

Prerequisite(s): Admission to the RN-BSN Program.

NURS 4303 Complementary Therapeutic Modalities

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course introduces culturally specific therapeutic modalities that are complementary to western health care. These therapeutic modalities are examined relative to their combination with scientific therapies and professional and lay healers. Ethical, legal, and teaching responsibilities are elaborated. Emphasis is placed on the roles and responsibilities of the nurse in collaboration with the client and the multi-disciplinary team to facilitate health promotion.

Prerequisite(s): Admission to the RN-BSN program or Permission of the Program Director.

NURS 4310 Community Health Nursing

5 Credit Hours. 3 Lecture Hours. 6 Lab Hours.

This course provides the student with a foundation of community nursing roles and essential skills for entry to level public health nursing with a focus on population health and wellness. Knowledge and value of human diversity are held as essential concepts as students apply the nursing process with individuals, families, aggregates, and communities. Theories and concepts from public health and nursing science are applied to risk reduction, disease prevention, and health promotion. The impact of political systems and regulatory agencies on health disparities are examined at the global, national, regional and local levels. 60 hours of clinical is included.

Prerequisite(s): Admission to the RN-BSN program.

NURS 4311 Complex Nursing Concepts

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course provides an opportunity for thorough analysis of complex concepts relative to nursing such as person, environment, health, holistic nursing, caring, rurality, spirituality, and power. Multiple theoretical models are analyzed: Health Promotion, Caring, Transcultural Nursing and others. Case study analysis and other modes, including fieldwork, are used to apply models to life events such as birth, death and changes in health status. Attention is given to the availability and use of community resources for individuals and families experiencing dynamic change and complex health events. Additionally, considerable attention is given to the impact of social, economic, cultural, legal, and ethical variables on the experience of profound life events.

Prerequisite(s): Admission to the RN-BSN program.

NURS 4312 Nursing Leadership and Management

5 Credit Hours. 3 Lecture Hours. 6 Lab Hours.

The focus of this course is to prepare students to assume a leadership role in the management of nursing care in multidisciplinary healthcare environments. The principles of critical thinking and evidence based nursing practice are utilized in the care of groups of clients and families with Health/Illness variations within a culturally diverse and complex healthcare delivery system. Course content includes management and leadership theories and skills, change strategies, healthcare technology, and role transition strategies to assist the new professional nurse. The framework for professional practice and professional role activities is developed from the American Nurses' Association, Nursing: Scope and standards of practice, (3rd ed.). 60 hours of clinical is included.

Prerequisite(s): Admission to the RN-BSN program.

NURS 4313 Nursing Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The focus of this course is on the research process and enhancement of critical thinking skills. Students learn to critique, analyze, and apply research findings to health promotion of persons, families, groups, and communities. The relationship of nursing research to nursing theory and practice is explored.

Prerequisite(s): Admission to the RN-BSN program.

NURS 4314 Critical Analysis of Nursing Concepts**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course facilitates the synthesis and application of evidence based care using policy, politics, and ethical principles to guide discussion and critical discourse. Students will engage in seminar discussion, critical discourse, case analysis, and ethical applications.

Prerequisite(s): A minimum grade of "C" in: NURS 4301 and NURS 4302 and NURS 4303 and NURS 4310 and NURS 4311 and NURS 4312 and NURS 4313.

NURS 4341 Population Focused Nursing**5 Credit Hours. 4 Lecture Hours. 3 Lab Hours.**

This course is designed to aid the public health nurse in developing and/or revitalizing skills essential in population-based practice in conjunction with clinical/preventive skills already obtained in the workforce. Emphasis will be on conducting community assessments, planning and implementing appropriate interventions based assessment findings, presenting health data to groups, facilitating the development of community coalitions, and collaboration with community partners for effective change in health policy.

Prerequisite(s): Permission of instructor.

NURS 4345L Adult Health II Lab**0 Credit Hours. 0 Lecture Hours. 9 Lab Hours.****NURS 4346L Adult Health II Lab****0 Credit Hours. 0 Lecture Hours. 9 Lab Hours.****NURS 4355L Women & Children's Health Lab****0 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Therapeutic nursing interventions to promote health and prevent illness of women and children in a variety of clinical settings.

NURS 4356L Women & Children's Health Lab**0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.****NURS 4420 Nursing and Health Restoration****9 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

Health restoration of clients experiencing acute health problems.

Corequisite(s): NURS 4420L.

NURS 4420L Nurs & Health Restoration Lab**0 Credit Hours. 0 Lecture Hours. 12 Lab Hours.**

Corequisite(s): NURS 4420.

NURS 4425 Children's Health**5 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Health promotion, maintenance and restoration as the foundation for nursing care of children in a variety of settings.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in NURS 3352 or NURS 3354.

NURS 4430L Health Restor Mental Hlth Lab**0 Credit Hours. 0 Lecture Hours. 3 Lab Hours.****NURS 4435L Mental Hlth Restoration Lab****0 Credit Hours. 0 Lecture Hours. 4 Lab Hours.****NURS 4440L Population Focused Nurs Lab****0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.****NURS 4441L Population Focused Nurs Lab****0 Credit Hours. 0 Lecture Hours. 6 Lab Hours.****NURS 4450L Prof Nursing Practicum Lab****0 Credit Hours. 0 Lecture Hours. 9 Lab Hours.****NURS 4451L Profession Nurs Lead & Mangmt****0 Credit Hours. 0 Lecture Hours. 9 Lab Hours.****NURS 4470L Nurs & Pop Focused Prac Lab****0 Credit Hours. 0 Lecture Hours. 9 Lab Hours.****NURS 4480L Prof Nurs Practicum Lab****0 Credit Hours. 0 Lecture Hours. 9 Lab Hours.****NURS 4497 Community Health Nursing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to examine the concepts and principles of community and population health nursing. The course will provide an overview of health issues that transcend borders, class, race, ethnicity, and culture. Emphasis is placed on roles, levels of prevention, principles of epidemiology, public health policy, and disaster preparedness.

NURS 4597 Leadership & Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the leadership roles and management functions of professional registered nurses within the structure of an organization. The management process provides the foundational structure for the course, while the theoretical framework for this course is established through exploration of leadership styles, organizational theory, and management theory. Quality assurance and the provision of evidence-based, patient-centered care and collaborative relationships are emphasized. The impact of political and legislative processes, the integration of informatics, and the legal and ethical issues in management are also discussed.

Corequisite(s): NURS 4798.

NURS 4797 Community Health Nursing Clinical**2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Application of concepts and principles of community and population health nursing through practice of the role of the baccalaureate prepared registered nurse. A total of 60 hours of clinical experience in an approved community setting is required. NURS 4497 Community Health Nursing must be taken concurrently.

Corequisite(s): NURS 4497.

NURS 4798 Leadership & Management Clinical**2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Application of concepts and principles of leadership and management in the role of a professional registered nurse within the structure of an organization. A total of 60 hours of clinical experience in an approved setting is required. NURS 4597 Leadership & Management must be taken concurrently.

Corequisite(s): NURS 4597.

NURS 6106 Chronic Care Management and Advanced Health Assessment Capstone**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Complete Chronic Care Management Guide for focus population. Collaborate with network partners to support implementation of Chronic Care Management Program. Clinical time will be applied and will encompass research utilization, designing a funding application and/or support program related to focus area/s for future program implementation and completion of resources to support long term Chronic Care Management Services.

Prerequisite(s): Minimum grade of "B" in: NURS 6103 and NURS 6105.

NURS 7090 Selected Topics Nursing**6 Credit Hours. 0-6 Lecture Hours. 0-36 Lab Hours.**

Provides a mechanism for offering courses on selected topics in nursing.

NURS 7110 Scholarly Writing at the Graduate Level**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Focuses on evidence-based knowledge, skills, and attitudes for scholarly writing development. This online course examines the processes of translating and integrating scholarship into practice as well as the dissemination of evidence-based findings to diverse audiences through scholarly writing. Emphasis will be placed on advanced information searches, analytical reasoning and writing strategies relevant to the practice of advanced professional nursing, scholarly writing in the form of a manuscript using peer-reviewed journal guidelines, the generation of complex scholarly writing, and appropriate citation format according to the American Psychological Association (APA).

NURS 7121 Theoretical Basis for Clinical Scholarship**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course explores the scientific underpinnings and theories from nursing and related disciplines in the application to clinical practice. The student is prepared for the implementation and integration of evidence-based practice. The framework for professional practice and professional role activities is developed from the current American Nurses' Association Nursing: Scope and Standards of Practice.

Prerequisite(s): Admission to the BSN-DNP.**NURS 7122 Research Design and Dissemination****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course is designed to enhance your ability to understand and critique nursing research applicable to advanced nursing practice. This course is intended to prepare individual students to participate as a member of a clinical research team. Current professional and practice standards/guidelines provide the foundation for this course. The framework for professional practice and professional role activities is developed from the American Nurses' Association Nursing: Scope and Standards of Practice.

Prerequisite(s): Admission to the BSN-DNP Program.**NURS 7123 Psychodynamics of Health****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Family theoretical frameworks are used to explore the influence of psychological, cultural, and social aspects of rural/urban life on health. Health care problems and issues of concern to advanced practice nursing providing care to rural and urban families will be compared and contrasted. Techniques for screening at-risk families to facilitate early case finding and strategies for health maintenance and health promotion are included.

NURS 7128 Epidemiology**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course introduces the basic principles and methods of epidemiology, with an emphasis on clinical judgment and application to clinical practice for the advanced practice nurse (APN). Epidemiology is studied in relation to the changing health care system and environmental hazards. Principles and methods of epidemiologic investigation, appropriate summaries and displays of data, and the use of classical statistical approaches to determine patterns of health, health promotion, and disease prevention within the environment are examined. The framework for professional practice and professional role activities is developed from the current American Nurses' Association Nursing: Scope and Standards of Practice.

NURS 7129 Role Transition for APRN**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course explores the scientific underpinnings that provide the foundation for advanced practice nursing and the multiple roles of the advanced practice registered nurse in the evolving healthcare environment.

NURS 7130 Health Policy Concerns in Delivery Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines how the advanced practice nurse can obtain and use knowledge of the American healthcare system to explore economically and politically feasible policy changes that could improve the efficiency and effectiveness of delivery of healthcare. Ethical inquiry addresses access to healthcare and the disposition of scarce resources. This course is intended to prepare the future advanced practice nurse to be a member of an interprofessional team to advocate for matters of access and delivery of healthcare issues. The framework for professional practice and professional role activities is developed from the American Nurses' Association Nursing: Scope and Standards of Practice (2010).

NURS 7135 Informatics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course prepares the APRN to utilize informatics and health care technologies in the management of individuals, groups and organizations for the improvement of patient outcomes. The course will introduce and explore the use of information technology and applications used by health care professionals to support health in clinical practice, education, research, and administration. This is an online course.

Prerequisite(s): Admission to graduate nursing program.**NURS 7136 Theoretical Perspectives of Teaching and Learning in Nursing Education****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the theoretical underpinnings that provide the foundation for teaching and learning in nursing education. A broad base of theoretical perspectives in developmental psychology and education as applied to the needs of learners are covered. The role of the nurse educator is explored to meet the teaching needs of diverse learners in diverse learning environments designers and strategies to assess learning experiences from the standpoint of learner and instructor are investigated. Course includes exploring the nurse educator role as a leader in the academic community and cultivation of teaching, scholarship and service activities.

NURS 7137 Curriculum Design and Evaluation in Nursing Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the processes of curriculum design and program development and in nursing education. The elements of the philosophical and contextual foundation of a curriculum, the application of professional standards and implementation and evaluation of both a curriculum and an educational program are explored.

NURS 7138 Teaching Strategies and Methods in Nursing Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores a broad array of creative classroom and clinical learner-centered teaching strategies, particularly those that promote critical thinking and facilitate active student learning. Frameworks, tools, and experiences to select, evaluate, and use teaching strategies appropriate to a variety of learning environments in nursing education are explored. An assessment of learning experiences from the standpoints of self, learner and instructor as well as appropriate assessment strategies to address teaching and learning issues and situations are addressed. Course content will include a focus on the use of technology in classroom and clinical nursing education.

Prerequisite(s): A minimum grade of "B" in NURS 7136.**NURS 7139 Assessment, Measurement and Evaluation in Nursing Education****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the examination of a range of assessment methods, techniques, devices, and strategies and ways to determine appropriate assessments for measuring student learning and curricular goals in both theoretical and clinical applications.

Prerequisite(s): A minimum grade of "B" in NURS 7138.

NURS 7141 Pathophysiology and Differential Diagnosis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The advanced concepts of pathophysiology that alter and/or disrupt body system functioning in the adult and child patient are explored. Clinical findings and diagnostic approaches are emphasized. Current and emerging biomedical research is integrated and lays the foundation for advanced practice nursing. Having knowledge of pathophysiology concepts provide the foundation for determining differential diagnosis related to patient complaints and physical findings.

NURS 7142 Advanced Pharmacology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Pharmacotherapeutic principles for advanced nursing management of patients across the lifespan will be explored. The legal, professional and evidence-based dimensions of prescribing are addressed.

NURS 7143 Advanced Health Assessment
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Advanced health assessment builds on undergraduate assessment skills and knowledge across the lifespan in diverse populations. Recognition of pathological signs and symptoms associated with illness and assessment of health promotion needs are emphasized.

Prerequisite(s): A minimum grade of "B" in NURS 7141.

Corequisite(s): NURS 7710.

Cross Listing(s): NURS 7710.

NURS 7234 Primary Care Clinical 3: Adult Health
3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.

This course requires the application of theoretical concepts relative to the provision of health care to the adult and older client within the scope of practice of the nurse practitioner. Group discussions will provide the opportunity for student learning synthesis while incorporating transcultural strategies for the client, family and community. A total of 180 hours of clinical experience in a rural/urban ambulatory primary care setting providing care to the adult and older population is required.

Prerequisite(s): NURS 5230G and NURS 5210G and NURS 6134 and NURS 6135.

Corequisite(s): NURS 7243.

NURS 7532 Chronic Care Management I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Exploration and Evaluation of Chronic Care Conditions across the lifespan with a specific focus on conditions affecting clients of managed care eligibility and chronic diseases. Local, Regional, State and National evaluation of prevalent Chronic Care Conditions, their demographic, cultural and economic dispositions and practice standards.

Prerequisite(s): Acceptance into the Graduate School at Georgia Southern University and Completion of a Bachelor's Degree from an accredited college.

NURS 7542 Chronic Care Management II
4 Credit Hours. 2 Lecture Hours. 6 Lab Hours.

In this course students will begin to develop expertise in the care of patients with chronic illness through exploration of the various models of chronic care management. They will assess patient needs and develop an interdisciplinary care plan that includes patient resources, a teaching plan, and means of evaluation. Ethical issues, quality improvement, and patient safety for this population will be explored. The course includes 90 hours of clinical experiences in a variety of health care settings in both inpatient and outpatient environments. Clinical time may be applied and can encompass networking, plan development, and outcome evaluations with collaborative partners.

Prerequisite(s): A minimum grade of "B" in all of the following: NURS 7141, NURS 7142, NURS 7143, NURS 7532, NURS 7710.

NURS 7543 Chronic Care Management Capstone
4 Credit Hours. 2 Lecture Hours. 6 Lab Hours.

The CCM capstone course provides 90 hours of clinical experiences in a variety of health care settings in both inpatient and outpatient environments. This course allows students to synthesize and apply theoretical, evidence based interventions from the knowledge gained in all required courses. A special emphasis is placed on vulnerable populations who suffer from two or more chronic medical conditions. Learning activities will provide an opportunity for application of the learning experience and will include topics necessary to prepare students to assume leadership roles within healthcare environments. Components of insurance reimbursement and interprofessional collaboration will be discussed.

Prerequisite(s): A minimum grade of "B" in all of the following: NURS 7141, NURS 7142, NURS 7143, NURS 7710, NURS 7532, NURS 7542.

NURS 7710 Advanced Health Assessment Clinical
1 Credit Hour. 0 Lecture Hours. 6 Lab Hours.

Advanced health assessment- clinical course requires precepted hours in a primary care setting to refine undergraduate assessment skills across the lifespan in diverse populations. Oral, written, and electronic documentation and communication is developed. Campus visits may be required.

Prerequisite(s): A minimum grade of "B" in NURS 7141.

Corequisite(s): NURS 7143.

NURS 7720 Clinical Specialty Practicum
3 Credit Hours. 0 Lecture Hours. 9 Lab Hours.

This course emphasizes the enhancement of clinical proficiency through focused and sustained clinical experiences designed to strengthen patient care delivery skills as well as understanding of organizational dynamics. The clinical experiences afford the student the opportunity to focus on a population of interest or a specific clinical role. Teaching strategies and methods focusing on high quality and safe nursing practices will be applied in field experiences under the direct supervision of qualified nurse preceptors. 135 contact hours.

Prerequisite(s): A minimum grade of "B" in NURS 7136 and NURS 7137.

NURS 7721 Nursing Education Capstone
3 Credit Hours. 0 Lecture Hours. 9 Lab Hours.

This capstone educational experience course provides an opportunity to integrate the role of the nursing educator in a real-world context. Student-centered educational activities will be developed that incorporate pedagogy, instructional design, curriculum development, and assessment of learner outcomes within a nursing course under the guidance of an experienced nurse educator. 135 contact hours.

Prerequisite(s): A minimum grade of "B" in all of the following: NURS 7136, NURS 7137, NURS 7138, NURS 7720.

NURS 7890 Independent Study - Graduate
6 Credit Hours. 0-6 Lecture Hours. 0-36 Lab Hours.

Allows the graduate student the opportunity to investigate an area of interest under the direction of a faculty member.

Prerequisite(s): Permission of instructor.

NURS 8235 FNP I - Pediatrics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores the role of the family nurse practitioner in the provision of primary health care to the pediatric client in ambulatory care settings. Emphasis is placed on health maintenance/promotion and the management of pediatric health within a transcultural, rural/urban, family and community context.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.

Corequisite(s): NURS 8721.

NURS 8236 FNP II - Women's Health**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the role of the nurse practitioner in the provision of primary health care to women in rural/urban ambulatory care settings who present for gynecological and prenatal care. Emphasis is placed on health maintenance/promotion and the management of women's health concerns within the transcultural context of family/community.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 8722.**NURS 8237 FNP III - Adult and Gerontology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the role of the Family Nurse Practitioner in the provision of primary health care to the adult and gerontological client in a rural/urban ambulatory care setting. Emphasis is placed on health maintenance/promotion and the management of adult health within the trans-cultural context of family/community.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 8723.**NURS 8314 Vulnerable Populations****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course explores the role of the psychiatric mental health nurse practitioner in the provision of specialty health care to vulnerable populations with psychiatric/mental health conditions in rural/urban care settings such as prisons, shelters, emergency departments and various community agencies. Emphasis is placed on prevention, system assessment, program development, and population management utilizing translational research in context of the community as well as advocacy and policy development as it relates to mental health.

NURS 8331 An Interprofessional Collaboration Approach for Patients with Multiple Chronic Conditions 1**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to introduce students to collaborative practice among various disciplines of study in order to care for vulnerable persons with multiple chronic conditions.

NURS 8332 An Interprofessional Collaboration Approach for Patients with Multiple Chronic Conditions 2**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide students an opportunity to collaborate together in interprofessional teams to utilize professional competencies to provide appropriate care to persons with multiple chronic conditions in theoretical situations.

Prerequisite(s): A minimum grade of "B" in NURS 8331.**NURS 8333 Interprofessional Collaboration for Patients with Multiple Chronic Conditions with Practicum 1****3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course will provide students the opportunity to work using interprofessional teams in the clinical setting to address the health status of vulnerable persons with multiple chronic conditions.

Prerequisite(s): A minimum grade of "B" in NURS 8332.**NURS 8334 Interprofessional Collaboration for Patients with Multiple Chronic Conditions with Practicum 2****3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.**

This course will allow students to use the theoretical concepts learned from previous courses to care for persons with multiple chronic conditions in authentic situations seen in the clinical environment.

NURS 8335 PMHNP I - Mental Health Care of the Individual**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the role of the psychiatric mental health nurse practitioner in the provision of specialty health care to individuals, with psychiatric/mental health conditions in rural/urban care settings. Emphasis is placed on assessment, diagnosis and treatment and the management of mental health, as well as health maintenance/promotion across the lifespan within a transcultural context across settings.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 8724.**NURS 8336 PMHNP II - Care of the Individual and Family with Substance Abuse****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course explores the role of the psychiatric mental health nurse practitioner in the provision of specialty health care to individuals and families with substance use disorders. Advanced nursing care across the treatment spectrum is addressed, including prevention, acute care, and recovery/long term care. Emphasis is placed on assessment, diagnosis and treatment and the management of mental health, as well as health maintenance/promotion within a transcultural context in groups, families and community.

Prerequisite(s): Minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 8725.**NURS 8337 PMHNP III - Complex Mental Health Care of Special Populations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the role of the psychiatric mental health nurse practitioner in the provision of specialty psychiatric care to vulnerable populations such as children, elders and individuals with special needs including psychiatric/mental health conditions in rural/urban care settings. Emphasis is placed on assessment, diagnosis and treatment, especially of those with complex needs, as well as health maintenance/promotion within a transcultural, community context.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 8726.**NURS 8431 AC I - Adult and Gerontology Acute Care I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This foundational course provides an introduction into the role of the acute care nurse practitioner, selected health conditions and special considerations for the older adult. Through advanced nursing assessment, diagnosis, and management, episodic acute and chronic deviations occurring across the continuum of acute care settings common to the adult and geriatric populations are examined. Health promotion and disease prevention, quality and patient safety concepts are integrated.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 8727.**NURS 8432 AC II - Adult and Gerontology Acute Care II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

There is continued focus on advanced practice assessment, diagnosis and management of acute exacerbations of chronic disease states as well as comorbid and complex conditions across the continuum of acute care settings in the adult and geriatric population. Health promotion and disease prevention, quality and patient safety concepts are integrated. NURS 8728 must be taken concurrently.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 8728.**NURS 8433 AC III - Adult and Gerontology Acute Care III****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The final course of the AG-ACNP program, continues to focus on the role of the advanced practice nurse leading interprofessional teams in the care of patients with significant alterations in health including acute and critical illnesses. Continued focus on advanced nursing assessment, diagnosis, and management of highly complex adult-gerontological patients in high acuity settings. Health promotion and disease prevention, quality and patient safety concepts are integrated.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 8729.

NURS 8520 Capstone Practice and Professional Issues
2 Credit Hours. 1 Lecture Hour. 0 Lab Hours.

The Capstone Professional Issues course is the culmination of advanced assessment, practice and management of diverse populations across the lifespan. This course will also focus on the multiple regulatory, practice, ethical and legal dimensions of APRN practice. The APRN student will complete 90 hours of clinical experience in a variety of rural/urban health care settings based on the student's current APRN clinical track.

Prerequisite(s): Graduate Core, Advanced Practice, and Specialty Courses.

NURS 8531 PC I - Adult and Gerontology Primary Care I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focus is on primary care management of adult clients experiencing minor health deviations. Emphasis is placed on the health promotion and disease prevention needs of clients. Discussion includes nursing theoretical bases, critical thinking skills and scientific inquiry for care of adults in a variety of clinical settings. Selected roles of the Adult Nurse Practitioner are addressed within the course. The framework for professional practice and professional role activities is developed from the American Nurses' Association Nursing: Scope and Standards of Practice.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8731.

NURS 8532 PC II - Adult and Gerontology Primary Care II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The framework for professional practice and professional role activities is developed from the current American Nurses' Association Nursing: Scope and Standards of Practice. Focus is on primary care management of adult-geriatric clients with an emphasis on identification of major chronic deviations from health and wellness. Application of nursing theoretical frameworks, critical thinking skills and scientific inquiry is a major focus in the health promotion and restoration of clients to their optimum level of wellness. Facets of advanced nursing practice as well as professional standards are integrated.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8732.

NURS 8533 PC III - Adult and Gerontology Primary Care III
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This final course provides an opportunity for synthesis of knowledge and evidenced based practice in Primary Care settings providing care to clients with a variety of health issues. A case study focus with emergent client presentations is utilized in much of the didactic discussion to assist the student in refining knowledge and decision-making skills. Another major focus of the course is on preparation and assimilation of Nurse Practitioner competencies, roles and function. The Advanced Practice Roundtable Seminar allows discussion of the multiple regulatory, practice, ethical and legal dimensions of advanced nursing practice.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8733.

NURS 8721 FNPC I - Pediatric Clinical
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.

This course requires the application of theoretical concepts relative to the provision of health care to the pediatric client within the scope of practice of the family nurse practitioner. Students will complete 180 precepted clinical hours in a pediatric primary care setting.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8235.

NURS 8722 FNPC II - Women's Health Clinical
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.

This course requires the application of theoretical concepts relative to the provision of primary health care to the female client within the scope of practice of nurse practitioner. Group discussions will provide the opportunity for student learning synthesis while incorporating transcultural strategies for the client, family, and community. A total 180 hours of clinical experience in a primary care obstetrical/gynecological setting providing care to women experiencing reproductive or lifestyle concerns and pregnancy or gynecological conditions is required.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8236.

NURS 8723 FNPC III - Adult and Gerontology Clinical
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.

This course requires the application of theoretical concepts relative to the provision of healthcare to the adult/gerontological client within the scope of practice of the Family Nurse Practitioner. Group discussion will provide the opportunity for students learning synthesis while incorporating transcultural strategies for the client, family, and community. A total of 180 hours of clinical experience in a rural or urban ambulatory primary care setting providing care to the adult population is required.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8237.

NURS 8724 PMHNPC I - Mental Health Care of the Individual Clinical
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.

This course requires the application of advanced practice nursing models with clients that have complex psychiatric illnesses or are at high risk with focus on care of the individual. Collaborative process in therapy, consultation, and planned change with use of assessment, diagnostics, individual therapy modalities, and the utilization of pharmacotherapeutics. The nursing process and therapeutic alliance for medication compliance will be emphasized. A total of 180 hours of clinical experience in a mental health setting is required.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8335.

NURS 8725 PMHNPC II - Care of the Individual and Family with Substance Abuse Clinical
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.

This course requires students to apply advanced practice nursing models with clients with substance use and related disorders. Collaborative process in therapy, consultation, and planned change with use of assessment, diagnostics, individual and group therapy modalities, and the utilization of pharmacotherapeutics. A total of 180 hours of clinical experience in a mental health setting incorporating substance abuse services is required.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8336.

NURS 8726 PMHNPC III - Complex Mental Health care of Special Populations Clinical
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.

This course explores the role of the psychiatric mental health nurse practitioner in the provision of specialty psychiatric care to vulnerable populations such as children, elders and individuals with special needs including psychiatric/mental health conditions in rural/urban care settings. Emphasis is placed on assessment, diagnosis and treatment, especially of those with complex needs, as well as health maintenance/promotion within a transcultural, community context.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8337.

**NURS 8727 ACC I - Adult and Gerontology Acute Care Clinical I
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.**

Application of theoretical and clinical concepts through practice of the role of the advance practice registered nurse within the scope of practice of the adult-gerontology acute care nurse practitioner. A total of 180 hours of clinical experience in an approved acute care setting providing care to the adult and gerontology population is required. NURS 8431 Adult-Gerontology Acute Care I must be taken concurrently.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8431.

**NURS 8728 ACC II - Adult and Gerontology Acute Care Clinical II
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.**

Application of theoretical and clinical concepts through practice of the role of the advance practice registered nurse within the scope of practice of the adult-gerontology acute care nurse practitioner with a focus on acute and complex, comorbid conditions. A total of 180 hours of clinical experience in an approved acute care setting providing care to the adult and gerontology population is required. NURS 8432 Adult-Gerontology Acute Care II must be taken concurrently.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8432.

**NURS 8729 ACC III - Adult and Gerontology Acute Care Clinical III
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.**

Application of theoretical and clinical concepts through practice of the role of the advance practice registered nurse within the scope of practice of the adult-gerontology acute care nurse practitioner with a focus on high acuity and critical illness. A total of 180 hours of clinical experience in an approved acute care setting providing care to the adult and gerontology population is required. NURS 8433 Adult-Gerontology Acute Care III must be taken concurrently.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8433.

**NURS 8731 PCC I - Adult and Gerontology Primary Care Clinical I
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.**

Focus is on primary care management of adult clients experiencing minor health deviations. Emphasis is placed on the health promotion and disease prevention needs of clients. Discussion includes nursing theoretical bases, critical thinking skills and scientific inquiry for care of adults in a variety of clinical settings. Selected roles of the Adult Nurse Practitioner are addressed within the course. The framework for professional practice and professional role activities is developed from the American Nurses' Association Nursing: Scope and Standards of Practice.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8531.

**NURS 8732 PCC II - Adult and Gerontology Primary Care Clinical II
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.**

The framework for professional practice and professional role activities is developed from the current American Nurses' Association Nursing: Scope and Standards of Practice. Focus is on primary care management of adult-geriatric clients with an emphasis on identification of major chronic deviations from health and wellness. Application of nursing theoretical frameworks, critical thinking skills and scientific inquiry is a major focus in the health promotion and restoration of clients to their optimum level of wellness. Facets of advanced nursing practice as well as professional standards are integrated.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8532.

**NURS 8733 PCC III - Adult and Gerontology Primary Care Clinical III
2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.**

This final course provides an opportunity for synthesis of knowledge and evidenced based practice in Primary Care settings providing care to clients with a variety of health issues. A case study focus with emergent client presentations is utilized in much of the didactic discussion to assist the student in refining knowledge and decision-making skills. Another major focus of the course is on preparation and assimilation of Nurse Practitioner competencies, roles and function. The Advanced Practice Roundtable Seminar allows discussion of the multiple regulatory, practice, ethical and legal dimensions of advanced nursing practice.

Prerequisite(s): A minimum grade of "B" in BSN-DNP Core courses.
Corequisite(s): NURS 8533.

**NURS 9101 Theoretical Basis for Clinical Scholarship
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course explores the scientific underpinnings and theories from nursing and related disciplines in the application to clinical practice. The student is prepared for the implementation and integration of evidence-based practice. The framework for professional practice and professional role activities is developed from the current American Nurses' Association Nursing: Scope and Standards of Practice.

Prerequisite(s): Admission to the BSN-DNP.

**NURS 9102 Research Design and Dissemination
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course is designed to enhance your ability to understand and critique nursing research applicable to advanced nursing practice. This course is intended to prepare individual students to participate as a member of a clinical research team. Current professional and practice standards/guidelines provide the foundation for this course. The framework for professional practice and professional role activities is developed from the American Nurses' Association Nursing: Scope and Standards of Practice.

Prerequisite(s): Admission to the BSN-DNP Program.

**NURS 9103 Psychodynamics of Health
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Holistic and humanistic family theoretical frameworks are used to explore evidence based nursing practice in the recognition, assessment, management and/or referral of individuals experiencing emotional, psychobiopharmacokinetic, developmental and psychiatric disorders. Health care problems and issues of concern to advanced practice nursing providing care to rural and urban families will be compared and contrasted.

**NURS 9104 Pathophysiology and Differential Diagnosis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The advanced concepts of pathophysiology that alter and/or disrupt body system functioning in the adult and child patient are explored. Having knowledge of pathophysiology concepts provide the foundation for determining differential diagnosis (es) related to patient complaints and physical findings.

**NURS 9105 Advanced Pharmacology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Builds upon the pharmacological knowledge base of the student in an advanced practice nursing major. Pharmacology and pharmacotherapeutics for selected drug classifications and prototype drugs used in primary care settings are explored. Selected primary care disorders are discussed related to appropriate pharmacological management.

**NURS 9107 Epidemiology
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course provides an introduction to the principles of epidemiology and transcultural healthcare competence, with an emphasis on clinical judgment, as applied to patient populations served by advanced practice nurses (APN). Emphasis is placed on preparing APNs to utilize the principles of epidemiology to assist vulnerable populations in achieving a higher level of wellness within their cultural and environmental contexts.

NURS 9109 Role Transition for APRN**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The course explores the theoretical and scientific underpinnings that provide the foundation for the advanced practice nurse (APN) in the Doctor of Nursing Practice role. A variety of advanced practice role-related topics will be covered that highlight leadership, scholarship, advocacy, evidence based practice, and professional development. Practice issues, settings, and models of care will be examined along with influencing factors.

NURS 9110 Health Policy Concerns in Delivery Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The relationship of economics to policy development and to health outcomes are examined from regional, state, national, and global perspectives. Students will explore the American governmental superstructure of the healthcare system, relevant laws and regulations, and its influence on practice. Fundamental principles of micro and macroeconomics are related to healthcare delivery systems. Quantitative decision-making models are examined, compared, and contrasted with intangible aspects of decision-making and policy development. Ethical inquiry addresses access to healthcare and utilization and dispersion of scarce resources.

NURS 9113 Biometrics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course provides foundation for the application of statistical analysis to investigate underlying relationships in health care data relevant to advanced practice nursing. Students will gain an understanding of when and why to use biostatistical techniques as well as how to apply them with confidence and interpret their output, using statistical computer software.

NURS 9123 Biomedical Ethics**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course is designed to present ethical principles preparing the Advanced Practice Registered Nurse (APRN) to guide patients, families, and communities through the complex maze of ethical dilemmas. Students will use evidence-based nursing and interprofessional literature to analyze ethical dilemmas that arise in practice. Through the philosophical study of morality as applied to biomedical ethics in current health care systems, APRNs will be able to help people arrive at culturally sensitive and individually appropriate solutions that focus on protecting vulnerable individuals and restoring health.

NURS 9124 Outcomes Management**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Course Provides the foundation to conduct comprehensive outcomes management initiatives to improve health care. Theoretical models, analytic methods, and evaluation strategies will be explored and critiqued as they relate to outcomes management. Connections between nursing-sensitive outcomes, outcomes management strategies, and patient population characteristics in healthcare systems will be emphasized.

NURS 9125 Role Transition for DNP Prepared APRN's**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The course explores the theoretical and scientific underpinnings that provide the foundation for the advanced practice nurse (APN) role. A variety of advanced practice role-related topics will be covered that highlight leadership, scholarship, advocacy, evidence based practice, and professional development.

NURS 9143 Population Focused Collaborative Initiative**3 Credit Hours. 2 Lecture Hours. 6 Lab Hours.**

Course prepares the APN to investigate a vulnerable population in collaboration with health care partner. The student will develop the ability to assume a consultant role in procuring fiscal resources to improve health care outcomes for diverse populations.

NURS 9144 Leadership and Management in Practice Transformation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an opportunity for the student to develop leadership skills important to the practice environment of the advanced practice nurse and to affect health care outcomes. Content includes leadership theory, power as a leadership asset, personnel management, change theory, conflict management, marketing, communication, group dynamics, and strategic planning. The dynamic interactions of health care organizations and regulatory/funding organizations will be analyzed. Attention will be given to the legal, ethical, and cultural aspects of leadership.

NURS 9152 Psychiatric Mental Health III**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course explores the role of the psychiatric mental health nurse practitioner in the provision of specialty health care to individuals and families with substance use disorders. Advanced nursing care across the treatment spectrum is addressed, including prevention, acute care, and recovery/long term care. Emphasis is placed on assessment, diagnosis and treatment and the management of mental health, as well as health maintenance/promotion within a transcultural context in groups, families and community.

Prerequisite(s): Minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 9752.**NURS 9232 Ethics, Policy and Advocacy for the Health of Vulnerable Populations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This elective course will focus on the advanced practice nurse as a leader in addressing the needs of vulnerable populations from the perspective of health. Special considerations will be given to issues of social justice, equity, advocacy, legal and ethical challenges encountered in clinical practice, decision-making and implementation of policy and procedures that affect the most vulnerable. The health ethics, policy and advocacy specific to DNP projects will be encouraged.

NURS 9233 Special Considerations in Gerontology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This elective course will focus on the role of the advanced practice registered nurse (APRN) as an advocate and leader in addressing the needs of older adults in vulnerable situations. Special focus will be given to issues of frailty, isolation, neglect, abuse, capacity versus competence, caregiver strain and other topics encountered in clinical practice by the APRN. The role of ethics, policy and advocacy specific to the gerontology population will be discussed.

NURS 9234 Foundations of Complementary and Integrative Health Care**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This elective provides a review of evidence-based theory and research approaches to complementary and integrative health practices. Appropriate for all health care students interested in traditional, complementary and integrative approaches to primary acute and tertiary care.

NURS 9235 Integrative Interventions in Mind Body Health and Healing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of the stress system as it relates to health, illness, and the human experience. Concepts including allostasis, allostatic load, and resilience, along with the physiology of relaxation response will be presented, with the evidence supporting clinical and interprofessional applications. Selfcare practices will be presented and encouraged.

NURS 9236 Mindfulness for Health Care Providers**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The use of mindfulness-based interventions in healthcare is expanding rapidly, as is the empirical evidence base supporting the benefits of mindfulness for both patients and providers. This interprofessional course provides students with a strong foundation in the history, theory, science, practice, and clinical application of mindfulness with the patient/client populations across the lifespan and in various contexts. Students will actively engage in experiencing and exploring the core of mindfulness for professional and personal use.

NURS 9752 Psychiatric Mental Health Clinical III**2 Credit Hours. 0 Lecture Hours. 12 Lab Hours.**

Application of advanced practice nursing models with clients with substance use and related disorders. Collaborative process in therapy, consultation, and planned change with use of assessment, diagnostics, individual and group therapy modalities, and the utilization of pharmacotherapeutics. A total of 180 hours of clinical experience in a mental health setting incorporating substance abuse services is required.

Prerequisite(s): Minimum grade of "B" in BSN-DNP Core courses.**Corequisite(s):** NURS 9152.**NURS 9931 Clinical Project I****3 Credit Hours. 0 Lecture Hours. 18 Lab Hours.**

In this course, DNP students will design a clinical scholarship project within their interest and expertise aimed at improving health care outcomes. The clinical project will actualize the DNP competencies inherent to the advanced practice nursing role. Oversight of this clinical project will be provided by the DNP Project Team Chair and Members.

Prerequisite(s): Completion of Graduate and Specialty Core with a "B" or better.**NURS 9932 Clinical Project II****3 Credit Hours. 0 Lecture Hours. 18 Lab Hours.**

In Clinical Project 2, the DNP student will implement the project designed in Clinical Project 1. The focus is on implementation and data collection.

Prerequisite(s): A minimum grade of "B" in NURS 9931.**NURS 9933 Clinical Project III****3 Credit Hours. 0 Lecture Hours. 18 Lab Hours.**

In Clinical Project 3 students will evaluate the outcomes of a clinical scholarship project implemented in DNP Clinical Project 2. Findings will be disseminated in a professional format.

Prerequisite(s): A minimum grade of "B" in NURS 9932.

PBAD Public Administration

PBAD 2231 Introduction to Public Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a comprehensive overview of the history of public administration, its development as a field, and a survey of the critical theories and normative issues within public administration and the implication for practice.

PBAD 3331 Applied Public Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the historical and theoretical development of public sector management. The course also introduces performance management tools of contemporary public managers, including strategic planning, goal setting, project management, and performance management systems.

PBAD 3333 The Policy Process and Democracy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the frameworks, theories, and models used to explain how issues are conceptualized and brought to government and then subsequently designed, selected, and implemented. This includes an investigation into politics, focusing on how actors and issue networks interact and exercise power within the policy process.

PBAD 3334 Introduction to Public and Nonprofit Financial Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides students with the basics of financial management applicable to public and nonprofit organizations.

PBAD 3431 Public Budgeting**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course serves as an introduction to public sector budgeting providing students with practical knowledge about how the public sector budget process works, an overview of the technical aspects of public budgeting and various theories of budgeting.

PBAD 3731 Public Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys the topic of public policy including the historical foundations and theories of the field. Emphasis is placed on the significance of public policy in addressing pressing social issues and the social, economic, political, and cultural contexts of public policy.

PBAD 3732 Policy Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the evidence-based methods used to create, implement, and study substantive public policy problems. This includes an investigation into the process of policy analysis, as well as the tools frequently employed at each step. The intent is to improve the quality of policy-making by critically examining the design and relevance of policies, their implementation and execution, and their impact on households, communities, and the society at large.

PBAD 3733 Contemporary Policy Issues**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This class explores a number of core substantive policy areas that represent a substantial part of contemporary U.S. policy-making. It offers a comprehensive overview of each topic area that and then probes more deeply into each topic. This includes an overview of the major policies and programs within each area, how they came into effect, and current or likely reforms in terms of effectiveness, efficiency, equity, ethics, or political feasibility.

PBAD 4031 Selected Topics in Public and Nonprofit Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines specific topics in public and nonprofit management not addressed by other courses. May be repeated once as topics change.

PBAD 4231 Administrative Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course serves as an introduction to administrative law providing students with practical knowledge about administrative law procedures, how administrative law fits into the constitutional and legal framework, and the role of administrative law in policy. This course is designed to introduce students to decision-making based on a public agency's operating rules.

PBAD 4232 Public Service Values and Ethics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course investigates ethical concerns found in the public and nonprofit sectors, including the underlying values and norms that comprise these sectors. An emphasis is placed on the relationship between democracy and administrative decision-making, a focus on accountability, and the role of ethical actors in the resolution of value conflicts.

PBAD 4233 Human Capital Management for Administrators**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on human resources management in a public sector context. Particular emphasis is placed on the past developments of and future challenges in the field. Topics such as employee recruitment, selection, and compensation, as well as more contemporary issues such as diversity management are addressed.

PBAD 4234 IT and E-government for Public Managers
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines organizational societal value structures and the ways in which technology creates rapid change and new alternatives in values. The impact of e-government initiatives and social media on the way governments interact with the public is explored.

PBAD 4235 Research Methods and Evaluation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course familiarizes students with the basic approaches to social research as applied in public and service settings. Emphasis is placed on techniques for organizing and presenting data for policy and management decision-making.

PBAD 4331 Leadership & Managerial Innovation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to the literature on the successful leadership of people and groups in public service organizations. In order to lead well, managers need expertise in multiple areas, including personality, motivation, group behavior, power, leadership, decision-making, and change management. This course also examines the meaning and significance of managerial innovation.

PBAD 4334 Policy and Markets
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This class explores the rationales and explanations for government intervention in correcting social problems including political, moral and ethical, and market or economic rationales. Special emphasis is placed on collective action, market failures, and externalities as the predominant justification for public policy.

PBAD 4791 Field Internship in Public Administration
3-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

The internship in public administration is designed to provide students with meaningful experiences in public service organizations. Students are approved to intern in a public or nonprofit organization, serving in positions that allow them to gain exposure to the management of these organizations. No more than three credit hours can be counted towards completion of the Minor in Public Administration.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in PBAD 2231.

PBAD 7030 Selected Topics in Public and Nonprofit Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines specific topics in public and nonprofit management not addressed by other courses. May be repeated once as topics change.

PBAD 7130 Ethics for Public Service Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the experiences, approaches, and strategies for confronting and solving the complex problems facing public and nonprofit organizations. An emphasis is placed on accountability and responsibility of public servants, the methods of moral reasoning and their connection to behavior, specific ethical concerns of public organizations, and ethical decision-making.

PBAD 7133 Administrative Law
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the intersection of public administration and the law, giving particular attention to U.S. Supreme Court decisions pertaining to the constitutional and statutory authority of agencies, rulemaking, policy enforcement, administrative transparency, judicial deference, judicial review, and the law of public employment. Extensive attention will be given to both the relationship between courts and modern administrators and the ways in which elements of administrative law and the practice of public administration can be integrated.

PBAD 7134 Advanced Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides the key insights and skills necessary to manage and lead in public service organizations. It focuses on contemporary practices of public and nonprofit management such as cross-sector collaborations, networks, negotiations, and other technical skills needed to lead in the twenty-first century.

PBAD 7230 Budgeting in Public Service Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines both the politics and techniques used in formulating and implementing budgets by governmental and nonprofit organizations. It provides a bridge between budgeting theory and practice and its relationship to the administrative processes of control, management, and planning. Attention is also given to understanding the complexities of designing a tax system that conforms to principles of good tax policy.

PBAD 7232 Financial Management in Public Service Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides a theoretical and practical introduction to financial analysis and management in public service organizations. Topics include processes, tools and methods used in financial planning and control of public and nonprofit organizations, including cost estimation, strategies for long-term and short-term investing, and financial statement analysis utilizing critical performance indicators.

PBAD 7233 Information Technology for Public Service Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides a guide to the electronic delivery of government information and services and the management of information technology in the public sector. Topics include the digital divide, information security, privacy, transparency and accountability issues, and evaluation of government's use of social media in the provision of service to citizens.

PBAD 7235 Leadership of Public Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the extensive literature on successful leadership broadly and its existence within and application to public service organizations more specifically. Particular attention is given to identifying strong leadership practices and distilling principles of exemplary leadership. This include emphasis on conceptual, technical, and human skills.

PBAD 7330 Intergovernmental Relations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the interaction between the federal, state, and local levels of government in the United States. Special attention is given to the constitutional and fiscal relationships between these levels of government and the historical evolution of the nature of the relationships. The concept of federalism and its relationship to effective intergovernmental relations is also examined.

PBAD 7331 Local Government Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the political and administrative processes of municipalities, counties, and other units of local government in the United States. Special focus is placed on the role and responsibilities of the city/county manager, enhancing manager-council effectiveness, managing citizen engagement, and implementing innovative service delivery strategies.

PBAD 7333 Social Equity, Diversity, and Inclusion
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the ways in which differences in demographic characteristics affect the work of public and nonprofit managers, and explains how gender, race, nationality, religion, sexual orientation, and other dimensions of diversity influence organizational behaviors and outcomes. Special attention is given to social equity, diversity and inclusion, representative bureaucracy, and implementing culturally competent strategies to address the challenges of serving an increasingly diverse public.

PBAD 7335 Urban Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the problems confronting public managers in large municipalities and the unique responsibilities of urban governments. Special attention will be paid to policy areas such as transportation, housing, social welfare, public safety, and infrastructure management.

PBAD 7336 Comparative Public Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines public administration through two differing viewpoints—domestic and international. Special attention is paid to the unique problems and circumstances surrounding domestic and international governments and how they relate to and differ from each other.

PBAD 7337 Environmental Management and Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of environmental and natural resource management in the United States. Particular attention is paid to the topics of federalism and cooperation. Issues of regional importance are also covered, including water quality and availability, regulation and monitoring compliance, sustainable growth, and management within overlapping jurisdictions.

PBAD 7338 Managing Economic Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the strategies, tools, and techniques used by local, state, and national governments to generate economic growth in and revitalization of economically-depressed areas as well as maintaining economic growth in stable areas.

PBAD 7430 Public Human Resource Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the functions, policies, and techniques of human resource management in public and nonprofit organizations.

PBAD 7431 Organizational Behavior**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines human behavior in organizations, with a focus on practical application of theories related to the management of individuals and groups within public service organizations.

PBAD 7530 Research Methods For Public Service Organizations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines quantitative techniques for public administration. Emphasis will be placed on understanding and using techniques appropriate to categorical analysis and the simple linear model. Students will also be exposed to research design, measurement, and the use of computer program packages appropriate to the public and nonprofit sectors.

PBAD 7531 Public Program Evaluation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the design and implementation of policy and program evaluation in public and nonprofit organizations. Special attention is given to developing logic models, selecting appropriate research designs, and monitoring agency operations through performance measurement. The mechanics of benefit and cost effectiveness analysis are examined. Various evaluation methods are used in assessing the efficiencies and effectiveness of programs.

Prerequisite(s): A minimum grade of "B" in PBAD 7530.

PBAD 7532 Public Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines how public policy is developed, implemented, and evaluated with special attention being given to policy formulation, analysis, and interpretation.

PBAD 7533 Geographic Information Systems and Public Planning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the practice of urban, regional, and state planning with focus on the use of geographic information system (GIS) applications for state and local decision-making. Includes an introduction to the scope, theories, and politics of planning.

PBAD 7631 Foundations of Public Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course surveys the field of public administration and explores the historical foundations and theories of public administration as well as the diverse political, social, and economic contexts within which they exist.

PBAD 7638 Capstone Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students will prepare to sit for the comprehensive examination by undergoing a review of the major theories underlying the field of Public Administration. This course also addresses issues related to a student's professional development.

PBAD 7651 Organization Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the theoretical basis of organization development (OD) and demonstrates how OD technologies can be applied to public and nonprofit organizations for improving organizational quality and performance.

PBAD 7730 Internship in Public Administration**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course requires students to intern in a professional capacity with a public service organization. The internship requires a minimum of 300 hours working in the organization and as approved by the MPA internship coordinator.

PBAD 7731 Local Government Practicum**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides students experience conducting research and policy analysis for local government. Projects are proposed by municipalities within Georgia and students are allowed to choose projects aligned with their interests. Students work individually, or in pairs on larger projects, under the direction of the course instructor. This course expands research skills, enriches understanding of local government policy processes, and exposes participants to issues they are likely to face when employed in local government.

PBAD 7890 Directed Reading**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A structured set of readings and assignments mutually designed by the student and the instructor on a specific area of public administration.

PBHS Public History

PBHS 7710 Internship in Public History**1-3 Credit Hours. 0-3 Lecture Hours. 0-3 Lab Hours.**

Individually designed project involving off-campus study and research in an appropriate agency, requiring at least one term for completion, during which time the student is under the joint supervision of the sponsoring agency and a faculty supervisor. Graded on a S or U basis.

PBIS Positive Behav Interventi Supp

PBIS 8130 Administration in Positive Behavior Interventions and Supports**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to develop the skills necessary to organize, supervise, equip, staff and provide specialized leadership and services for school wide implementation of Positive Behavior Intervention and Supports.

PBIS 8131 Critical Issues in Positive Behavior and Supports
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Candidates will identify and address a series of critical issues in Positive Behavior Interventions and support from the standpoint of how such issues impact on the practice of discipline in their classroom, school, and system. Historical and current research will be reviewed as they relate to identified issues. Discussions of methods for addressing such issues within the context of the public schools will be a major focus of the course.

PBIS 8839 Data Methods in Positive Behavior Intervention and Support
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to provide an in-depth study of the methodology involved in collecting, reviewing, and decision making using various school data platforms. Provides students with a foundation of skills which will allow them to conduct data-driven decisions in PBIS. In addition, a major goal of this course is to facilitate the development of critical thinking skills which will enable candidates to make reflective decisions based upon the data provided in their schools and districts.

PECI Physical Edu, Curr & Ins

PECI 5070G Theo/Meth of Strngth & Cond
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

The efficacy of methods and models of sports training in activities requiring intensive strength and conditioning programs.

PECI 7000 Global Sport History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course studies the development of sport across a number of cultures and explores its impact on societies. This course will assist the physical educator to predict future trends.

PECI 7100 Cultural Aspects of Sports
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will examine the role of sport and physical activity in society with an emphasis on its relationship to cultural diversity and issues, both historical and contemporary. Emphasis is placed on issues which affect the teacher, student/athlete, coach, administrator, and sports fan.

PECI 7200 Movement Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of fundamental movement concepts and skill themes with an emphasis on promoting desirable self-concepts and realistic self-images in young children.

PECI 7300 Physical Activity in Youth
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth examination of the personal, social, and environmental determinates of physical activity patterns that explain the rising obesity rates and related health issues in youth.

PECI 7400 Adaptive Physical Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will assist the physical educator in curriculum and development that will promote participation and learning outcomes for students with disabilities in general physical education classes and sports with necessary accommodations and modifications. Curriculum and program development, legislative considerations, and various instructional strategies will be presented.

PECI 7500 Instr Strat/Design Hlt/Phys Ed
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Investigates the specific foundation of teaching methods, content, organization, and evaluation of health and physical education programs in schools. This course will examine interdisciplinary teaching models that can be used as guides for organizing content, collaborating with others, and creating meaningful activities that impact student learning.

PECI 7600 Oper/Mang Phys Ed & Sport Prog
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Planning, designing, and managing sports events, facilities, and programs.

PECI 8000 Theory/Meth-Strength & Cond
3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.

The efficacy of methods and models of sports training in activities requiring intensive strength and conditioning programs.

PECI 8800 Perform Eval & Exercise Trng
3 Credit Hours. 1 Lecture Hour. 4 Lab Hours.

PHIL Philosophy

PHIL 2010 Introduction to Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Basic themes, problems, and representative figures in philosophy, and may address issues such as religion, ethics, reality, and ways of knowing.

PHIL 2020 Critical Thinking
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is an introduction to the concepts and skills necessary for identifying, evaluating, and constructing good arguments. Topics will include strategies that are used to strengthen or weaken an argument, spot fallacious ways of reasoning, and identify hidden assumptions. The course also studies the basic elements of deductive reasoning.

PHIL 2030 Introduction to Ethics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An examination of the most influential moral philosophies, such as those originating in Aristotle, Kant, and Mill. Moral theories may be applied to the analysis of a range of contemporary moral issues in a variety of areas such as technology, environmental relations, or medicine.

PHIL 3030 Selected Topics in Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on a special topic or theme as chosen by the instructor. May be repeated for additional credit when topics change.

PHIL 3100 Ancient Greek and Roman Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Emphasis on the Pre-Socratics, Plato, and Aristotle. May also address thinkers such as the Stoics, Epicureans, Skeptics, and Neo-Platonists.

PHIL 3120 Medieval Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Major thinkers from Europe, North Africa, and the Middle East, including notable figures such as Augustine, Aquinas Ibn Sina, and Maimonides.

PHIL 3130 Early Modern Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The modern rationalist tradition and its rival empirical tradition, with emphasis on Descartes, Spinoza, Leibniz, Hobbes, Locke, Berkeley, and Hume.

PHIL 3140 Nineteenth Century Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of nineteenth century thinkers and their ideas regarding the nature of reality, knowledge, truth, God, society, and humanity. Possible representative figures are: Kant, Hegel, Marx, Schopenhauer, James, Keirkegaard, and Nietzsche in addition to others.

PHIL 3150 Contemporary Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Twentieth century schools and trends in philosophy as exhibited by such figures as Heidegger, Whitehead, Moore, Wittgenstein, Sartre, and Ayer. **Prerequisite(s):** Completion of ENGL 1101.

PHIL 3170 Postmodernism
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the philosophical response to the modernist philosophical tradition that led to significant changes in Western discourse on politics, aesthetics, and science.

PHIL 3200 Technology, Society and Human Values**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A philosophical exploration of the formative impact of technology on the character of modern culture and human values. The study of competing descriptions and definitions of technology as well as questions regarding effective human control of technology, the moral neutrality of technology, and the effects of technology on conceptual paradigms, language, politics, economics, sciences, education, art, and religion.

Prerequisite(s): Completion of ENGL 1101.**PHIL 3230 Modern Political Thought****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course in modern political thought is concerned with the differentiation of politics as an activity distinct from, and independent of, religion. Political thinkers in the modern period are distinguished by their turn to scientific and other modern modes of rationality as foundations for the analysis of politics. Central concerns include delineating the rights and powers of the individual and establishing a secular basis for a just society.

Cross Listing(s): POLS 3230.**PHIL 3232 Philosophy of Law****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of major topics in the philosophy of law, all of which concern the relationship of law to morality and justice—including the nature of law in general; the importance of the rule of law and of limiting the rule of law; and some theory and practice of criminal law.

Cross Listing(s): POLS 3232.**PHIL 3330 Philosophy of Art****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A critical study of philosophical theories about the nature of art drawing from both traditional and contemporary thinkers. Topics include defining and evaluating art, describing the creative process, the significance of art in society, censorship, the connection between art and politics, and the relationship between art and commercialism.

PHIL 3332 Contemporary Moral Problems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course in applied ethics which provides a philosophic discussion of the most salient ethical problems of the day. Typically the course will cover such topics as abortion, animal rights, euthanasia, capital punishment, and suicide.

PHIL 3334 Environmental Ethics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the moral relations between human beings and their natural environment. The course examines theories of valuing nature, applies ethical analysis to environmental problems, and explores the underlying causes of environmental degradation.

Prerequisite(s): PHIL 2010.**PHIL 3531 Theory of Knowledge****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the main theories concerning the nature of knowledge and belief. Topics will include problems of skepticism, the reliability of perception and memory, and the sources of justification.

PHIL 3532 Metaphysics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the main theories concerning the nature of reality. Topics will include what things exist, the nature of space, time, matter, self, freedom, infinity, and God.

PHIL 3635 Existentialism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the existentialist movement in philosophy from its origins to the present, showing how and why the movement began, what its authors advocate, and how it has been assessed by contemporary critics. Readings will include selections from Kierkegaard, Jaspers, Heidegger, Sartre, and others.

PHIL 4130 Feminist Philosophy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the main topics in Feminist Philosophy to include the adversary method and the 'maleness' of philosophy; dualities of mind and body, male and female, self and other; women's ways of knowing; caring and maternal thinking; and ecofeminism. Feminist philosophy addresses these ideals and assumptions in the western philosophic traditions that have oppressed women and other subordinate groups.

PHIL 4233 Symbolic Logic**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Fundamentals of propositional and predicate logic. Emphasis will be placed on construction of proofs in formal systems.

PHIL 4433 The Irish Philosophical Tradition**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the history of Irish Philosophy, from the Irish Augustine, a seventh-century monk, to contemporary philosophers working in Ireland today. Special emphasis is placed on the Irish contribution to Empiricism in the work of Robert Boyle, William Molyneux, and George Berkeley.

PHIL 4434 Focus on the Philosopher**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The work of a great philosopher warrants a more detailed study than a survey course can allow. This advanced course is a detailed, semester-long study of the work of an important philosopher. The philosophers covered may vary from semester to semester, and from instructor to instructor.

PHIL 4532 Philosophy of Emotions**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to help students understand the nature of emotions, and to enable students to become better equipped to understand their own emotions. Students will study and critically evaluate the major contemporary theories of emotion as well as historical accounts of emotion.

PHIL 4533 Philosophy of Mind**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the most important questions in the philosophy of mind. The course will ask what minds are, whether statements about minds can be replaced by or reduced to statements about brains, what consciousness is, and whether there can be artificial intelligence.

PHIL 4534 Philosophy of Film**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Investigates philosophical issues via the medium of film. Topics may include philosophical issues represented in film, the cinematic experience, as well as the effectiveness of film as a philosophical medium.

PHIL 4632 Philosophy of Religion**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Major problems arising in the encounter between philosophy and religious belief (reason and faith). Emphasis varies among topics such as the nature and validity of religious experience and belief, the problem of evil, the meaning and status of religious language, and arguments regarding God's existence.

PHIL 4790 Internship**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is for advanced majors who want work experience in fields related to Philosophy and Religious Studies such as academia, law, medicine, and for profit and not for profit business. Must have permission of the Chair and secure a faculty mentor who will sponsor the project.

PHIL 4800 Independent Study**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Offered on demand. The student, with the advice and permission of the supervising professor, selects the topic and submits a prospectus for department approval before the semester in which the course is to be taken. Transient students may take this course only with permission of the department head.

PHIL 5030 Selected Topics in Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on a special topic or theme as chosen by the instructor. May be repeated for additional credit when topics change. .

Cross Listing(s): PHIL 5030G.

PHIL 5030G Selected Topics in Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on a special topic or theme as chosen by the instructor. May be repeated for additional credit when topics change. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): PHIL 5030.

PHIL 6030 Selected Topics in Philosophy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on a special topic or theme as chosen by the instructor. May be repeated for additional credit when topics change. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

PHIL 7100 Professional & Applied Ethics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Training in professional ethics in the workplace. Emphasis on specific ethical issues and dilemmas that arise in particular professional contexts; ethical theory, including central notions such as social justice, merit, individual liberty, freedom of communication, privacy informed consent, confidentiality, utility, the work ethic and collective responsibility and logical reasoning, including logical fallacies.

PHLD Public Health Leadership

PHLD 9130 Public Health Research Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides theoretical and applied concepts, techniques, procedures, and technologies used in scientific inquiry and reporting for applied health services delivery, systems, health administrative and managerial research.

PHLD 9131 Leadership Foundations and Strategies for Health Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will examine the role of leaders in improving health organizations and the relationship between situational leadership strategy, organizational culture, communication, and performance. Theoretical foundations, strategies and processes of leadership are explored and synthesized through critical thinking, self and group assessment.

PHLD 9133 Health Organization Communication
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the delivery and exchange of messages within health organizations. Contexts will include conflict, negotiating, networks, channel selection, knowledge management, risk communication and public relations.

PHLD 9231 Health Informatics and Decision Making
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on the fundamental concepts of managing information as an asset in public health and healthcare delivery contexts. Emphasis will be placed on converting data into information and converting information into decision support models.

PHLD 9331 Health Policy, Regulation and Ethics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores the policy, legal and ethical issues found in the healthcare system, and investigates the healthcare professional as decision-maker, leader and moral agent.

Prerequisite(s): A minimum grade of "B" in PUBH 8134.

PHLD 9333 Health Organization Strategic and Contingency Planning

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will examine the concepts, processes, and integration of management information systems, financial, human resource, and marketing plans into an organizational strategic planning system with emphasis on contingency planning as a major context and application.

PHLD 9334 Financial Management of Public Health Organizations and Programs

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the structure and functioning of the finance components of the Public Health System using Federal Basis Generally Accepted Accounting Principles (FGAAP). It will provide Dr.P.H. students with the theory, concepts, and tools necessary to make better decisions regarding the acquisition and deployment of resources, and promoting the financial well-being of public health organizations. The course will discuss the following topics: financial goals; time value analysis; financial risk and return, debt and equity financing; capital decisions; cost of capital; capital investment decisions; business valuation; and leasing decisions. Students will apply the material learned in real world (case) settings and, in the process, gain an appreciation of the value of spreadsheets in financial decisions.

PHTH Physical Therapy

PHTH 7101 Functional Anatomy of the Cardiopulmonary System
5 Credit Hours. 3 Lecture Hours. 4 Lab Hours.

The development, anatomy, physiology and imaging of the cardiopulmonary system as it relates to physical therapy practice. Also includes anatomy, physiology and imaging of the back and scapulothoracic regions.

PHTH 7111 Intro to Pathophysiology 1
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Basic histopathology, pathophysiology, pharmacology, imaging and selected medical and surgical interventions of the cardiovascular and pulmonary systems.

PHTH 7131 Basic Cardiopulmonary Patient Care
6 Credit Hours. 4 Lecture Hours. 4 Lab Hours.

Fundamental physical therapy examination, evaluation, and intervention for persons with cardiovascular and/or pulmonary dysfunction. Also includes the use of physical agents, electrotherapy and other selected therapeutic modalities.

PHTH 7161 Phys Therapy Practice Issues 1
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

Discussions of professional socialization, cultural issues in health care, legal and ethical aspects of health care, psychosocial aspects of illness, quantitative terminology in clinical practice and clinical documentation.

PHTH 7181 Clinical Practicum 1
1 Credit Hour. 0 Lecture Hours. 4 Lab Hours.

Preparation for and exposure to healthcare settings related to acute care through didactic, laboratory and half-day, on-site observational experiences.

PHTH 7202 Functional Anatomy of Axial and Appendicular Regions
6 Credit Hours. 4 Lecture Hours. 4 Lab Hours.

Gross anatomy, physiology, kinesiology, and imaging of the axial and appendicular regions.

Prerequisite(s): A minimum grade of "B" in PHTH 7101.

PHTH 7212 Intro Pathophysiology 2
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Histopathology, pathophysiology, pharmacology, imaging and selected surgical interventions of the musculoskeletal system.

Prerequisite(s): A minimum grade of "B" in PHTH 7111.

PHTH 7232 Basic Orthopedic Patient Care**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

Fundamentals of physical therapy care of persons with musculoskeletal dysfunction. Includes clinical reasoning and documentation.

Prerequisite(s): A minimum grade of "B" in PHTH 7131.**Corequisite(s):** PHTH 7232L.**PHTH 7232L Basic Orthopedic Patient Care Lab****4 Credit Hours. 0 Lecture Hours. 8 Lab Hours.**

Fundamental patient/client manual skills including basic examination and treatment for patients/clients with musculoskeletal dysfunction.

Prerequisite(s): A minimum grade of "B" in PHTH 7131.**Corequisite(s):** PHTH 7232.**PHTH 7262 Evidence-based Practice 1****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Skill development for assessing rehabilitation research, including methodology, statistical analyses and other quality indicators.

Prerequisite(s): A minimum grade of "B" in PHTH 7161.**PHTH 7282 Clinical Practicum 2****1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

Exposure to health care settings through on-site observational experiences.

PHTH 7303 Functional Anatomy of the Nervous System**4 Credit Hours. 2 Lecture Hours. 4 Lab Hours.**

The development, anatomy, physiology and imaging of the central and peripheral nervous systems as related to physical therapy practice.

Prerequisite(s): A minimum grade of "B" in PHTH 7202.**PHTH 7313 Intro Pathophysiology 3****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

The pathophysiology of the neuromuscular and integumentary systems.

Prerequisite(s): A minimum grade of "B" in PHTH 7212.**PHTH 7333 Basic Neurologic and Integumentary Patient Care****8 Credit Hours. 6 Lecture Hours. 4 Lab Hours.**

Fundamental physical therapy skills including examination, evaluation and intervention in persons with neuromuscular and integumentary dysfunction.

Prerequisite(s): A minimum grade of "B" in PHTH 7232.**PHTH 7363 Evidence-based Practice 2****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Students will learn procedures for implementing evidence-based practice.

Prerequisite(s): A minimum grade of "B" in PHTH 7262.**PHTH 7383 Clinical Practicum 3****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

A one-week full-time clinical exposure to patient care in a physical therapy setting, which may include specialty clinics, long-term care facilities, hospitals, and school systems.

Prerequisite(s): A minimum grade of "B" in PHTH 7282.**PHTH 7390 Phys Ther Case Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Simulated clinical experiences with the management of specific cases from referral to discharge.

Prerequisite(s): A minimum grade of "B" in PHTH 7232.**PHTH 7502 Clinical Medicine 2****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on metabolic disorders, autoimmune diseases, and the clinical perspective of the aging individual with an emphasis on geriatric disorders, including orthopedic, neurologic, and cardiopulmonary disorders and amputation.

PHTH 7532 Adv Exam Eval Intrvnt Pt 2**8 Credit Hours. 6 Lecture Hours. 8 Lab Hours.**

Advanced techniques in evaluating, assessing, designing and implementing appropriate treatment strategies for the middle aged and elderly adults with neurological, musculoskeletal, cardiopulmonary and medical conditions. Problem-solving case studies approach for linkage to other courses this term.

PHTH 7682 Adv Exam Eval & Inter II-Mcg**10 Credit Hours. 0 Lecture Hours. 40 Lab Hours.**

Ten week full-time clinical field experience in general, acute care, rehabilitation, or other specialty settings. Demonstration of the ability to integrate information from all didactic and clinical components of the curriculum in patients with all physical therapy diagnoses, including multiple diagnoses.

Prerequisite(s): A minimum grade of "B" in PHTH 7532.**PHTH 8400 Evidence-based Practice 3****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of evidence-based practice to the physical therapy clinical setting.

Prerequisite(s): A minimum grade of "B" in PHTH 7363.**PHTH 8481 Supervised Clinical Educ 1****8 Credit Hours. 0 Lecture Hours. 32 Lab Hours.**

Eight weeks of full-time clinical affiliation in general care settings providing an opportunity for students to practice in the clinical setting the skills learned in all preceding courses.

Prerequisite(s): A minimum grade of "B" in PHTH 7333.**PHTH 8491 Patient Care Synthesis 1****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Patient case construction and presentations integrating didactic and clinical information based on experiences in PHTH 8481 - Supervised Clinical Education I.

Prerequisites: A minimum grade of "B" in PHTH 7333.**Corequisites:** PHTH 8481.**PHTH 8501 Clinical Medicine 1****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the pathophysiology, medical differential diagnosis and pharmacological and surgical treatment of medical diseases and disorders.

Prerequisite(s): A minimum grade of "B" in PHTH 8481.**PHTH 8531 Advanced Patient Care 1: Geriatrics****8 Credit Hours. 6 Lecture Hours. 4 Lab Hours.**

Advanced physical therapy examination and intervention for problems commonly seen in but not limited to geriatric rehabilitation. Topics include stroke and other neurologic disorders, as well as orthopedic injuries and disorders, including amputation.

Prerequisite(s): A minimum grade of "B" in PHTH 8481.**PHTH 8561 Implmt Life Concppts Phy Ther 1****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Discussion of clinical implications and healthcare issues from a lifespan approach.

Prerequisite(s): A minimum grade of "B" in PHTH 8481.**PHTH 8602 Clinical Medicine 2****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the pathophysiology, medical differential diagnosis and pharmacological and surgical treatment of medical diseases and disorders.

Prerequisite(s): A minimum grade of "B" in PHTH 8501.**PHTH 8632 Advanced Patient Care 2: Adults****8 Credit Hours. 6 Lecture Hours. 4 Lab Hours.**

Advanced physical therapy intervention including spinal and pelvic dysfunction. Includes an introduction to sports physical therapy.

Prerequisite(s): A minimum grade of "B" in PHTH 8531.

PHTH 8662 Implement of Lifespan Concepts 2
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Continued discussion of clinical perspectives and healthcare issues form a lifespan perspective.

Prerequisite(s): A minimum grade of "B" in PHTH 8561.

PHTH 9001 Special Topics in Physical Therapy
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

These courses address a number of topics relevant to contemporary physical therapy practice or research.

Prerequisite(s): A minimum grade of "B" in PHTH 8531.

PHTH 9500 Leadership & Management in Physical Therapy 1
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Introduction to leadership topics in physical therapy and practical application of management strategies specific to physical therapy settings. Management topics include but are not limited to quality improvement, healthcare law, and payment policies.

Prerequisite(s): A minimum grade of "B" in PHTH 8632.

PHTH 9501 Leadership and Management in Physical Therapy 2
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

Introduction to the practical application of management strategies specific to physical therapy settings, including but not limited to budget and finance, employment law and workplace behaviors.

Prerequisite(s): A minimum grade of "B" in PHTH 9882.

PHTH 9551 Therapeutic Exercise 1
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.

This lab course emphasizes the application of musculoskeletal physical therapy exercise principles in a variety disorders common to older adults.

Prerequisite(s): A minimum grade of "B" in PHTH 7232L.

PHTH 9562 Therapeutic Exercise 2
1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.

This lab course emphasizes the application of musculoskeletal physical therapy exercise principles in a variety of adolescent and adult disorders.

Prerequisite(s): A minimum grade of "B" in PHTH 9551.

PHTH 9703 Clinical Medicine 3
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Continued study of the pathophysiology, medical differential diagnosis and pharmacological and surgical treatment of medical diseases and disorders.

Prerequisite(s): A minimum grade of "B" in PHTH 8602.

PHTH 9733 Advanced Patient Care 3: Pediatrics
6 Credit Hours. 6 Lecture Hours. 4 Lab Hours.

Advanced physical therapy examination, evaluation and intervention in children with neurologic, orthopedic, genetic, and other chronic disorders.

Prerequisite(s): A minimum grade of "B" in PHTH 8632.

PHTH 9763 Implement of Lifespan Concepts 3
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.

Continued discussion of clinical perspectives and healthcare issues from a lifespan perspective.

Prerequisite(s): A minimum grade of "B" in PHTH 8662.

PHTH 9804 Clinical Medicine 4
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

Integration of the medical concepts in the examination and treatment of medically complex patients.

Prerequisite(s): A minimum grade of "B" in PHTH 9703.

PHTH 9834 Advanced Patient Care 4: Complex Patients
2 Credit Hours. 1 Lecture Hour. 2 Lab Hours.

Integration of patient care skills in the physical therapy management of critically ill and complex patients. Also includes neurodiagnostics.

Prerequisite(s): A minimum grade of "B" in PHTH 9733.

PHTH 9882 Supervised Clinical Educ 2
10 Credit Hours. 0 Lecture Hours. 40 Lab Hours.

Eleven-week full-time clinical field experience in general, acute care, rehabilitation, or other speciality settings. Demonstration of the ability to integrate information from all didactic and clinical components of the curriculum in patients with all physical therapy diagnoses, including multiple diagnoses.

Prerequisite(s): A minimum grade of "B" in PHTH 9733.

PHTH 9900 Leadership & Management in PT
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to the practical application of management strategies specific to physical therapy settings, including finance, personnel management, quality assurance, and accreditation/licensure processes with an emphasis on hospital, private practice, rehabilitation and home care settings.

Prerequisite(s): Satisfactory completion of PHTH 9882.

PHTH 9904 Physical Therapy Project 4
1 Credit Hour. 1-99 Lecture Hours. 1-99 Lab Hours.

Completion of a research project as part of the project advisor's ongoing research activities.

Prerequisite(s): Satisfactory completion of PHTH 9903.

PHTH 9983 Supervised Clinical Educ 3
10 Credit Hours. 0 Lecture Hours. 40 Lab Hours.

Eleven-week full-time clinical field experience with demonstration of the ability to independently evaluate and treat complex patients as would be appropriate for a new graduate working at the facility.

Prerequisite(s): Satisfactory completion of PHTH 9882.

PHTH 9992 Patient Care Synthesis 2
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Writing, presenting and discussing case studies developed based on experiences in Supervised Clinical Education 2 and 3.

Prerequisite(s): Satisfactory completion of PHTH 9882.

PHYS Physics

PHYS 1010 The Physics Of Sports
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Fundamental concepts, laws, and theories of physics as they relate to a variety of sports, including volleyball, soccer, tennis, golf, and more. For non-science majors interested in the concepts underlying the mechanics of the skills and movements involved in a variety of physical activities. Includes in-class demonstrations and activities.

Prerequisite(s): A minimum grade of "C" in MATH 1111.

PHYS 1111K Introductory Physics I
4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

An introductory course which will include mechanics (kinematics, dynamics, work and energy, momentum and collisions, and rotational motion and statics), and may also include thermodynamics and waves. Elementary algebra and trigonometry will be used. Laboratory exercises supplement the lecture material.

Prerequisite(s): A minimum grade of "C" or better in MATH 1112 or MATH 1113, or prior or concurrent enrollment in MATH 1441 or MATH 1501.

PHYS 1112K Introductory Physics II
4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.

An introductory course which will include electrostatics, electric current and circuits, and electromagnetism, and may also include optics and modern physics. Elementary algebra and trigonometry will be used. Laboratory exercises supplement the lecture material.

Prerequisite(s): A minimum grade of "C" or better in PHYS 1111K.

PHYS 1135 How Things Work**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is a non-mathematical course designed for liberal arts students. Fifty-one objects in our everyday world are examined to answer the question "How do they work?". As a result concepts of physics that everyone uses daily are revealed in an interesting and understandable manner.

PHYS 1149 Environmental Physics**4 Credit Hours. 0,4 Lecture Hours. 0 Lab Hours.**

A general course on the physical basis of environmental science. Emphasis is placed on the identification and effective amelioration of both natural and man-made hazards to the earth's biosphere. Topics include greenhouse effects, ozone, acid rain, energy production and water disposal, radiation hazards, noise pollution and disruptive natural phenomena.

PHYS 1210 Survey of Physics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is an introductory survey physics course designed for freshman physics majors, which includes a math review, introduction to programming and graphing, reading scientific papers and review of basic physics concepts. Students will discuss physics research topics with current faculty.

PHYS 2211K Principles of Physics I**4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

An introductory course which will include material from mechanics, thermodynamics and waves. Elementary differential calculus will be used. This course has a laboratory component that requires a lab kit.

Prerequisite(s): Completion of MATH 1441.**PHYS 2212K Principles of Physics II****4 Credit Hours. 0,3 Lecture Hours. 0,3 Lab Hours.**

An introductory course which will include electrostatics, electric current and circuits, and electromagnetism, and may also include optics and modern physics. Elementary calculus will be used. Laboratory exercises supplement the lecture material.

Prerequisite(s): A minimum grade of "C" in PHYS 2211K.**PHYS 3130 Sound Waves and Acoustics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the production, transformation, reflection, absorption, and general effects of vibration and sound.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.**PHYS 3131 Optics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Geometric, physical, and quantum optics in which the general principles of wave optics and several optical devices are studied.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.**Cross Listing(s):** ASTR 3131.**PHYS 3149 Methods of Theoretical Physics****4 Credit Hours. 0,3 Lecture Hours. 0,2 Lab Hours.**

Presents a discussion of methods for solving the equations that arise in all of the major areas of physics.

Prerequisite(s): Prior or concurrent enrollment in MATH 3230 and a minimum grade of "C" in PHYS 2212K.**PHYS 3520 Problem Solving in Physics****2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Improves the ability of Physics majors to rapidly consolidate and inter-relate knowledge of their physics courses by familiarization with the techniques of rapid characterization and solution of problems and by in-class practice of rapid problem-solving.

Prerequisite(s): PHYS 3537.**PHYS 3536 Modern Physics I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Historical development of modern physics including topics on special theory of relativity, early models of the atom, atomic radiations and interaction of electrons with matter.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.**PHYS 3537 Modern Physics II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of modern physics topics including atomic and molecular physics and nuclear physics.

Prerequisite(s): PHYS 3536.**PHYS 3539 Introduction to Biophysics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The physics of living organisms with emphasis on physical support, movement, sensory perception and the physical properties of plant and animal processors at the molecular and organismic levels of organization. Permission of instructor required.

PHYS 3542 Analog Electronics**4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

A course in intermediate electronics with emphasis on topics of interest to students in physics. Discusses electronic instruments, transducers, diodes and power supplies. Amplifier behavior, the operational amplifier and wave shaping circuits are covered in detail. Discrete electronic devices are also discussed.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.**PHYS 3543 Digital Electronics****4 Credit Hours. 3 Lecture Hours. 3 Lab Hours.**

Presents the concepts and application of digital electronics. Digital logic concepts and techniques are presented. Flip-flops and counting circuits are studied extensively resulting in a discussion of digital instrument development. The principles of operation, general architecture and some applications of the microprocessor (the Intel 8085) are discussed.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.**PHYS 3558 Introduction to General Relativity****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the metric description of different spacetimes that describe flat and various curved geometries so as to derive the laws of mechanics for planets, stars, black holes, etc. The course also introduces a very simple model of the expanding universe and briefly introduces cosmology.

Prerequisite(s): PHYS 3537.**Cross Listing(s):** ASTR 3558.**PHYS 3630 Undergraduate Seminar****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

This course will consist of formal colloquia on topics of interest to the program as presented by visiting lecturers, local faculty, and students. All physics majors must attend a set number of seminars for one semester. Course may be repeated up to a maximum of 3 credit hours to be counted toward the BS/BA in Physics. The students will prepare journal reports on the presented topics.

PHYS 3790 Teaching Internship in Physics**1-2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The internship allows students to investigate teaching practices in physics. The student will participate in an introductory workshop immediately prior to the start of the semester, intern in a PHYS 1113 and/or PHYS 1114 laboratory, and meet with the faculty mentor one hour each week throughout the semester. 1 credit hour per laboratory section in which the student interns.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K .**Cross Listing(s):** ASTR 3558.**PHYS 4131 Quantum Optics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Involves theories related to laser spectroscopy, nonlinear optics, laser pulse propagation, laser cooling and various effects in laser spectroscopy related to quantum interference.

Prerequisite(s): A minimum grade of "C" in PHYS 3536.

PHYS 4232 Properties of Materials**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the properties of semiconductors, magnetic materials and superconductors. Particular emphasis will be placed on semiconductors with regard to developing an understanding of light emitting diodes, diode lasers and quantum well devices.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.**PHYS 4332 Principles of Lasers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the basic principles of laser oscillation, construction and operation of the most common laser systems, based on the rate equation and laser cavity theory. This course also provides practical experience in the use of many laser systems and in laser radiation safety.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K.**PHYS 4421 Advanced Physics Lab I****2 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

A laboratory course where the student will learn classical laboratory techniques, computer data acquisition, statistical analysis of data and proper reporting of results.

Prerequisite(s): A minimum grade of "C" in PHYS 3536.**PHYS 4422 Advanced Physics Lab II****2 Credit Hours. 0 Lecture Hours. 6 Lab Hours.**

This is a laboratory course where students will learn how to critically read scientific literature, develop a research proposal, conduct experimental physics research, and present a research project.

Prerequisite(s): A minimum grade of "D" in PHYS 4421.**PHYS 4790 Internship in Physics****1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The internship allows physics majors to work in a professional setting related to their chosen concentration. Students can earn between one and six credits for internships approved by their academic advisor and the Physics Internship Director. Students must complete a minimum of 5 hours of on-site work per week for each credit hour earned. Students must maintain contact with the Physics Internship Director through the course of the internship work, and must give an oral presentation at the end of the semester. Internship credits can be used for elective credit only and may not substitute for specific degree requirements. Requires permission of Physics Internship Director.

PHYS 5090 Selected Topics in Physics**2-5 Credit Hours. 0-5 Lecture Hours. 0-6 Lab Hours.**

A course allowing for investigation of selected topics in Physics; it will be taught on a one-time basis. Lecture only course can be for two, three, or five credit hours. For laboratory courses, one credit hour will be given for every three hours spent working in lab.

Prerequisite(s): A minimum grade of "C" in PHYS 1112K or PHYS 2212K.**Cross Listing(s):** ASTR 5090, ASTR 5090G, PHYS 5090G.**PHYS 5151 Classical Mechanics****5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

Provides physics majors and student of applied mathematics and engineering with the fundamentals of analytical mechanics.

Prerequisite(s): Prior or concurrent enrollment in MATH 3230 and a minimum grade of "C" in PHYS 2212K.**Cross Listing(s):** PHYS 5151G.**PHYS 5152 Classical E and M Theory****5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

Provides physics majors and students of applied mathematics and engineering with the fundamentals of electromagnetic field theory.

Prerequisite(s): PHYS 5151.**Cross Listing(s):** PHYS 5152G.**PHYS 5530 Thermal Physics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course in classical thermodynamics and kinetic theory.

Prerequisite(s): MATH 2242 and a minimum grade of "C" in PHYS 2212K.**Cross Listing(s):** PHYS 5530G.**PHYS 5536 Studies in Physics for Secondary Teachers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to acquaint the student with some of the problems encountered in high school physics presentations.

Prerequisite(s): MATH 1113.**Cross Listing(s):** PHYS 5536G.**PHYS 5557 Quantum Mechanics****5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

A study of the basic postulates of quantum mechanics with solutions to Schrodinger's wave equation for simple applications: the techniques of calculating position, energy and momentum with operators and the elements of perturbation theory with application to atomic spectra.

Prerequisite(s): PHYS 3536, PHYS 3537, and MATH 3230.**Cross Listing(s):** PHYS 5557G.**PHYS 5890 Physics Research Experience****1-4 Credit Hours. 0,3 Lecture Hours. 0 Lab Hours.**

An independent physics research experience in which a student will investigate a research question under the direction of a faculty member. Students will be expected to maintain a laboratory notebook, prepare a written summary of the research, and give an oral presentation at the end of the experience. Permission of instructor is required.

Cross Listing(s): PHYS 5890G, ASTR 5890, ASTR 5890G.**PHYS 5090G Selected Topics in Physics****2-4 Credit Hours. 0-5 Lecture Hours. 0-6 Lab Hours.**

A course allowing for investigation of selected topics in Physics; it will be taught on a one-time basis. Lecture only course can be for two, three, or five credit hours. For laboratory courses, one credit hour will be given for every three hours spent working in lab. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in PHYS 1112K or PHYS 2212K.**Cross Listing(s):** ASTR 5090, ASTR 5090G, PHYS 5090.**PHYS 5151G Classical Mechanics****5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

Provides physics majors and students of applied mathematics and engineering with the fundamentals of analytical mechanics. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in PHYS 2212K and completion of MATH 3230.**Cross Listing(s):** PHYS 5151.**PHYS 5152G Classical E and M Theory****5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

Provides physics majors and students of applied mathematics and engineering with the fundamentals of electromagnetic field theory. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Completion of PHYS 5151.**Cross Listing(s):** PHYS 5152.**PHYS 5530G Thermal Physics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course in classical thermodynamics and kinetic theory. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): MATH 2242 and a minimum grade of "C" in PHYS 2212K.**Cross Listing(s):** PHYS 5530.

PHYS 5536G Studies in Physics for Secondary Teachers**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to acquaint the student with some of the problems encountered in high school physics presentations. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Completion of MATH 1113.**Cross Listing(s):** PHYS 5536.**PHYS 5557G Quantum Mechanics****5 Credit Hours. 5 Lecture Hours. 0 Lab Hours.**

A study of the basic postulates of quantum mechanics with solutions to Schrodinger's wave equation for simple applications: the techniques of calculating position, energy and momentum with operators and the elements of perturbation theory with application to atomic spectra. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): Completion of PHYS 3536, PHYS 3537, and MATH 3230.**Cross Listing(s):** PHYS 5557.**PHYS 5890G Physics Research Experience****1-4 Credit Hours. 0-3 Lecture Hours. 0 Lab Hours.**

An independent physics research experience in which a student will investigate a research question under the direction of a faculty member. Students will be expected to maintain a laboratory notebook, prepare a written summary of the research, and give an oral presentation at the end of the experience. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do. Permission of instructor required.

Cross Listing(s): ASTR 5890, ASTR 5890G, PHYS 5890.**PHYS 6131 Solid State Materials****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the physical and chemical properties of solids. Topics may include: periodic structure, symmetry of crystals, diffraction, reciprocal lattice, chemical bonding, lattice dynamics, phonons, thermal properties, and free electron gas. Bloch theorem, band structure, nearly free electron approximation, tight binding method, Fermi surface, semiconductors, electrons, holes, impurities, optical properties, excitons, and magnetism will be introduced.

Prerequisite(s): A minimum grade of "C" in MATH 2242.**PHYS 6132 Applied Optics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course offers an introduction to laboratory optics, optical principles, and optical devices and systems. The course covers a wide range of topics, including: polarization properties of light, reflection and refraction, coherence and interference, Fraunhofer and Fresnel diffraction, holography, imaging and transforming properties of lenses, spatial filtering, and two-lens coherent optical processor. In addition, this course covers: optical properties of materials, lasers, electro-optic, acousto-optic and liquid-crystal light modulators, optical detectors, optical waveguides and fiber-optic communication systems. Students engage in extensive oral and written communication exercises.

Prerequisite(s): A minimum grade of "C" in MATH 2242.**PHYS 6133 Photonics, Plasmonics and Metamaterials****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course offers an introduction into theory and models related to photonics and electronics of photonic crystals, plasmonic metal nanostructures, metal-dielectric metamaterials and metasurfaces, localized scatterers and emitters. Students will improve their overall understanding of how these methods and models apply to practical systems related to spectroscopy, imaging, excitation and control over condensed, chemical and biological nano- and microstructures. The course covers a broad range of topics including: dielectric properties of materials in relation to their electronic structure, propagation and emission of radiation in strongly inhomogeneous and anisotropic materials, introduction into plasmonics, properties of photonic crystals and metamaterials, Mie theory of light scattering and near-fields at micro and nanoparticles, optical forces and tweezers, energy and momentum transfer in light-matter interactions and others.

PHYS 6231 Thin-Film Coating**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover the physics and chemistry of thin film coating. Topics covered will include thermal, optical, electric, and mechanical properties of multilayer metallic coatings and coating manufacturing techniques. Special topics will be given by experts from local coating industry.

Prerequisite(s): A minimum grade of "C" in PHYS 6237.**PHYS 6237 Applied Quantum Mechanics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to review Schrodinger's theory of quantum mechanics for application in modern devices and systems. Topics covered are quantum statistics, multi-electron atoms, molecules, one and two dimension system, and neon particle system. Calculation techniques introduced are matrix diagonalization, perturbation theory, variational method, time-dependent perturbation theory to apply to optical absorption, and nonlinear optical properties of materials.

PHYS 6730 Master of Science in Physical Science Internship**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is the required internship for the Masters of Science in Physics Science degree. Students will apply their skills and knowledge to a current problem in a professional setting, either on campus or at the site of a participating sponsor.

PHYS 7090 Selected Topics in Physics**1-6 Credit Hours. 0-6 Lecture Hours. 0-6 Lab Hours.**

A course allowing for investigation of selected topics in Physics.

PHYS 7330 Principles and Practice of Pre-clinical Drug Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces key issues and aspects of developing a new small molecule or biological drug, with focus on the guidelines from regulatory agencies on the data required for the Investigational New Drug (IND) application. Major issues in Pharmacology, Toxicology, Safety Pharmacology, Pharmacokinetics and Chemistry, Manufacturing and Control (CMC) sections of the IND submission process are described. Practices of laboratory animal efficacy models, pharmacokinetics models, toxicology study protocols, master batch record generation and the concepts of Good Laboratory Practice (GLP)/Good Manufacturing Practices (GMP) will be covered, with particular emphasis on the Code of Federal Regulations Title 21 part 58, 210 and 211.

PHYS 7630 Graduate Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will consist of formal seminars and informal sessions on current topics of interest to the program as presented by visiting lecturers, local researchers, and students. All MS-APS students must attend a set number of seminars each term they are enrolled in the program. Thesis track students in their final semester will prepare a comprehensive presentation on their thesis research as well as submit a report reviewing the topics covered during the seminar series.

PHYS 7999 Thesis**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Results of an individual, independent research project will be presented as a thesis in partial fulfillment of the Master of Science in Physical Science degree. The thesis requires defense of the design, execution, analysis, and interpretation of the research project.

POLS Political Science

POLS 1101 American Government**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys government and politics, with additional attention to the government and the Constitution of Georgia. Topics include the constitutional structure of American government, the role of non-governmental institutions such as interest groups and mass media, the role of governmental institutions such as Congress and the Presidency, the operation of major political process such as elections and policy making, and the interaction between institutions and processes. Satisfies the Georgia Constitution and U.S. Constitution requirements.

POLS 1150 World Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Comparative political systems with emphasis on the variety of world politics. Differences in government structure, policy, and political traditions. Democratization, modernization, nationalism, the future of the nation state, the end of the Cold War, and the potential of developing nations.

POLS 1200 Ethics/Morals in Government**2-3 Credit Hours. 2-3 Lecture Hours. 0 Lab Hours.**

Ethics of citizenship, policy-making, and governance. Classical and modern theories of justice, with emphasis on collective goods and individual rights. Three credit option requires student research on distributive justice and public policy.

POLS 2101 Introduction to Political Science**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the concepts that are considered in the systematic study of politics, such as justice, equality, regimes, and democracy. This course will examine the concepts and approaches by which political scientists explore politics theoretically and in applied settings. Required of all majors and minors in political science.

Prerequisite(s): A minimum grade of "C" in POLS 1101.**POLS 2130 Introduction to Political Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is part of a two-course foundation for Political Science majors. In Introduction to Political Science, students were introduced to the who, what, when, where, and why of Political Science. In this course, students will learn the how; in other words, how Political Scientists use the concepts, tools, and approaches available to them to understand the political world. Students will learn the tools of research design and both qualitative and quantitative techniques that are actively used in the discipline. Additionally, students will learn how the writing process unfolds from puzzle to final manuscript and presentation. The final goal of this course is to create an original, independent research design that can be completed in an upper-level Political Science course for presentation at a professional conference and/or publication in a professional journal. Required of all majors in political science.

Prerequisite(s): A minimum grade of "C" in POLS 2101.**POLS 3101 Moot Court I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Legal argumentation and decision making including writing briefs, research, and forensic skills.

Prerequisite(s): A minimum grade of "C" in POLS 1101 or permission of the instructor.**POLS 3102 Moot Court II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of Moot Court I, for those ready for a second semester of moot court study and competition.

Prerequisite(s): A minimum grade of "B" in POLS 3101.**POLS 3132 Asian Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the diversities across and within South, Southeast, and East Asia. It analyzes the following key themes: nationalism, colonialism, regime change, economic development, civil society and social movements, political conflict, and ethno-religious pluralism.

Cross Listing(s): INTS 3132.**POLS 3133 Latin American Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the major domestic and international factors in comparative Latin American political systems. Special attention and detail is given to the challenges of development and democratization.

Cross Listing(s): LAST 3133.**POLS 3134 Middle East Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines political change and economic development of the Middle East in the last century, focusing on colonialism, radical Islam, oil politics, Arab nationalism, the Arab-Israeli conflict, and the U.S. role in the Middle East.

Cross Listing(s): INTS 3134.**POLS 3135 Legislative Behavior****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The ability of elected bodies whether they are local, state, regional, or national to represent the preferences of their constituents is linked to the ability of elected officials, their staffs, and the executive agency administrators to manage change in an arena of inadequate information. This course will examine decision making, agenda setting, elections, and institutional arrangements with a particular concern for the mechanisms legislatures have for processing information. Students will become familiar with the three contemporary approaches to the study of legislatures: historical, behavioral, and formal.

POLS 3136 The Presidency**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analysis of the political, constitutional, behavioral, symbolic and policy roles of the President. Attention is also paid to the linkages between the Presidency and the other government and political institutions.

POLS 3137 Judicial Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students analyze and evaluate judicial politics by examining the actors, institutions, processes, and procedures that contribute to the formulation, administration, and adjudication of the law.

Prerequisite(s): A minimum grade of "C" in POLS 1101.**POLS 3138 Constitutional Law: Government Powers****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the constitutional development of the national government through landmark Supreme Court decisions. Topics include: judicial power, separation of power, federalism, and interstate commerce.

POLS 3139 Constitutional Law: Civil Liberties and Civil Rights**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the study of the Bill of Rights through landmark Supreme Court decisions. Topics include freedom of speech, press, and religion, the right to privacy, rights of the accused, search and seizure law, and equal protection of the law.

POLS 3140 Intro to the Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a thorough overview of the principles and concepts of the major areas of law, including: contracts, property, torts, criminal law, civil litigation, business law and ethics.

POLS 3230 Modern Political Thought**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course in modern political thought is concerned with the differentiation of politics as an activity distinct from, and independent of, religion. Political thinkers in the modern period are distinguished by their turn to scientific and other modern modes of rationality as foundations for the analysis of politics. Central concerns include delineating the rights of powers of the individual and establishing a secular basis for a just society.

Cross Listing(s): PHIL 3230.**POLS 3231 Environmental Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines important topics in United States environmental protection policy-making. It does so within the institutional context of American politics, including the congressional, presidential, administrative, judicial, intergovernmental, and constituency components of decisions relating to environmental protection. These decisions will be examined using the focus of the regionally important aspects of environmental quality such as water, air, and land resources.

POLS 3232 Philosophy of Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of major topics in the philosophy of law, all of which concern the relationship of law to morality and justice including: the nature of law in general; the importance of the rule of law and of limiting the rule of law; and some theory and practice of criminal law.

Cross Listing(s): PHIL 3232.**POLS 3233 Politics and The Media****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A comprehensive overview of the institutions and processes of the mass media in American politics. Emphasis is given to the history and role of the mass media in the United States and to the use of the media in covering news events as well as in political campaigns.

POLS 3234 Introduction to the European Union**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will introduce students to the history, institutions, policies, and cultures of the European Union and its member states.

Cross Listing(s): EURO 3234, INTS 3234.**POLS 3235 Women and Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the relationship of women to political life and to political theory-building. Focuses on political socialization, behavior, and institutional impact based on gender, using a comparative cross-national approach.

POLS 3236 International Relations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to the basic concepts of international relations, including those of war and peace, power, foreign policy, international organization, markets, demography, ecology, and the impact of information technology. Students will be provided with the necessary concepts, theories, and methods used in the discipline including quantitative analysis in order to gain a better understanding of the nature and problems of international relations.

Prerequisite(s): POLS 1101 or POLS 2101.**Cross Listing(s):** INTS 3236.**POLS 3237 African American Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A basic appreciation of the nature, processes, structures, and functions of African American politics in the domestic and international arena and how they differ from dominant assumptions, theories, approaches, and models of American politics. Focus is on how to seek and maintain empowerment.

POLS 3239 Human Rights in International Relations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore the vulnerability of various political minorities to human rights abuses at the global level and provide an assessment of the roles of states, international organizations, and non-governmental organizations in human rights issues.

Cross Listing(s): INTS 3239.**POLS 3330 State and Local Government****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the forms of organizations, the functions, and the operations of the 50 state governments. Special attention will be given to the growing problems in the urban areas such as the interplay of politics, pressure groups, and community power structures.

POLS 3331 Introduction to Bureaucratic Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the socio-political impacts of modern bureaucracies, how modern bureaucracy has emerged as a "fourth branch" of federal government (including historical development), and its ability to influence policy making with particular emphasis on implementation.

POLS 3332 Political Parties and Elections**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A comprehensive overview of the institutions and processes that connect the public to government institutions. Course emphasis is given to the history and structure of the political parties in the United States and the electoral process and voting at and below the presidential level.

POLS 3333 Southern Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the changing political conditions and trends within the eleven states of the American South since WWII. Students will examine the events which led to the unique political environment one encounters in the South. The primary focus will be on the political environment, but also on social, cultural, and economic variables as they relate to the political system.

POLS 3334 Film and Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Considers how the art of film has contributed to an understanding of major twentieth-century political events and thoughts. Topics include war, nationalism, authoritarianism, the Cold War, presidential politics and campaigning, populism and the ethos of democracy in classic and contemporary film.

POLS 3335 Ethnicity and Nationalism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines ethnicity and nationalism in comparative perspective. It discusses a wide variety of social and political phenomena including identity, language, violence, religion, class, gender and colonialism. Ethnic groups in almost every multiethnic country continue to compete with one another over issues of economic equity, political decentralization, power-sharing, language, educational policies and cultural rights. This course explores why and how power and passion of these groups are created by comparing ethnic conflicts across the globe and analyzes the following factors - language, religion, race, historical memories, values, territory, customs, symbols, myths and other cultural attributes.

POLS 3336 Ancient Political Thought**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines political themes from the Ancient Greeks to the Renaissance.

POLS 3338 Language and Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A critical examination of language as a problem-solving device and tool for understanding argument and legal contestation. Delineation of individual rights, institutional authority and legal jurisdiction with emphasis on language and legal power. Analysis of the sociology of language and law within the concepts of human rights and socio-political entitlements.

Prerequisite(s): A minimum grade of "C" in ENGL 1102.**POLS 3340 Pol & Ideol/Contemporary Euro****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Interaction between political institutions and ideas in contemporary Europe.

POLS 3350 Classics of Political Thought**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Selected texts in political theory, ancient, and modern.

POLS 3420 Pol Of Underdev: Afr & Lat Am**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Contemporary global patterns of dependency and interdependency. Legacy of colonialism. Role of military in politics. Nationalist regimes and movements. Democratization. Ethnic conflicts. Environmental problems. Political geography.

Prerequisite(s): A minimum grade of "C" in POLS 2101.**POLS 3431 African Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines salient themes and background of contemporary African political systems. The emphasis will be on government and politics of modern Africa bearing on the emergence of post-colonial states and regional and global ramifications.

POLS 3433 Survey of Comparative Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to the basic concepts of comparative politics, including those of democratization, regime transition, electoral politics, political parties, ethnic conflict, and economic development. Students will be provided with the necessary concepts, theories, and methods used in the discipline including quantitative and qualitative analysis in order to gain a better understanding of the nature and problems of comparative politics.

POLS 3438 Gender and the Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on legal issues related to gender, and considers judicial decisions that have helped shape policies related to issues such as reproductive rights, employment discrimination, family law, Title IX, and sexual harassment.

Prerequisite(s): A minimum grade of "C" in POLS 1101.**POLS 3439 Comparative Judicial Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students with a theoretical and empirical understanding of the role of courts in the modern state, and explanations for their increasing importance as political actors worldwide. Students gain the background necessary to navigate courts in disparate political landscapes.

Prerequisite(s): A minimum grade of "C" in POLS 1101.**POLS 3449 Torts****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides a practical and theoretical overview of civil wrongs. Political, social and economic consequences of individual behavior is examined. In addition, topics involving negligence actions, intentional torts, strict liability, and products liability are reviewed.

Prerequisite(s): A minimum grade of "C" in POLS 1101.**POLS 3480 Governments Of Western Europe****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Comparison of the major Western European governments, emphasizing the forces impacting political stability in Parliamentary systems.

Prerequisite(s): A minimum grade of "C" in POLS 2101.**POLS 3530 Global Environmental Politics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the politics of environmental issues from local, national, and international perspectives including public perception, competing ideologies, the nature of the political process, the courts, the media, and political institutions.

POLS 3532 Political and Social Aspects of Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Law as a dynamic societal institution. Sources and functions of both civil and criminal law and operation of the legal process viewed from the perspectives of jurisprudence, political science, and sociology.

Prerequisite(s): POLS 1101.**POLS 3551 Introduction to United Nations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students will be introduced to the concepts of international organizations and the part that they play today in international politics. Specifically, we will examine the United Nations, its structure and function, its failures and successes, and what the future holds for this organization.

Cross Listing(s): INTS 3551.**POLS 4031 Selected Topics in Political Science****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course allows various contemporary topics within Political Science to be examined.

POLS 4130 American Political Thought**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines political themes and thinkers from the Colonial to the Contemporary period.

POLS 4131 Introduction to Public Affairs**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the policy process in the American political system focusing on the analysis, formulation, implementation, and evaluation of public policies. Specific policy areas such as welfare, information technology, education, health, and foreign policy are examined.

Prerequisite(s): POLS 1101.**POLS 4132 U.S. Foreign Policy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides basic information and understanding of the key elements and actions involved in the formulation and execution of U.S. foreign policy. Special attention is given to the impact of U.S. foreign policy on the international system.

Cross Listing(s): INTS 4132.**POLS 4133 International Political Economy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the interplay between international politics and international economics or business or the process of international wealth acquisition and transfer. Emphasis will be on the dynamics that give rise to asymmetric distributions: who gets what, when and how among different players in the global economy.

POLS 4134 International Law and Diplomacy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the body of literature, concepts, and historical perspectives of international law and diplomacy as related to the critical problems of the Post-Cold War era. Focuses on the legal, oral, and strategic dimensions of several past, present, and proposed means of conflict resolution.

POLS 4135 International Organizations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A theoretical and analytical study of the organization, powers, and problems of global and regional international organizations.

Cross Listing(s): INTS 4135.

POLS 4136 Politics of the Global North**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on examination of the cultural, social, and political factors that contribute to the structure, function, and problems of contemporary nation-states in the Global North.

Prerequisite(s): POLS 1101 or POLS 2101.**Cross Listing(s):** INTS 4136.**POLS 4137 Politics of the Global South****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of government and politics in the major developing countries of Latin America, Africa, and Asia. Historical, cultural, religious, and economic factors influencing the political systems of these countries are also studied.

Cross Listing(s): INTS 4137.**POLS 4138 International Terrorism****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to explore the political, religious, economic, and social issues which pervade the global environment. Key issues to be addressed include different forms of terrorism, conflict resolution, and at the state level reunification issues. Emphasizes the critical, and perhaps, decisive and controlling impact which terrorist groups level on policy changes.

Cross Listing(s): INTS 4138.**POLS 4139 Contemporary Political Thought****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Theorists since the onset of the twentieth century have questioned the scientific foundations of modern political ideas and institutions. Issues to be discussed may include the nature and limits liberalism, the rise of mass politics, the benefits and dangers of modern technology, and the emergence of multiculturalism and feminism.

POLS 4190 Environmental Laws and Regulations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to hazardous waste regulations, solid waste management programs, the Clean Air Act, OSHA regulations, the Clean Water Act, environmental audits, remediation technology, and issues relating to the impact of environmental laws on society.

POLS 4210 Politics of Public Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides students with the analytical tools to assess the role of politics in policy making. Approaches policy making process as a multi-level analysis of interrelated government institutions and facilitates student processing and evaluation of complex political information embedded in the theory and practice of public policy formation.

POLS 4220 Politics of Economic Inequality**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the relationship between economic inequality and political voice, institutional governance, and public policy. It considers the causes of economic inequality, historical struggles in political development, and the socio-economic context of economic inequality all within a theoretical framework of equality and inequality.

POLS 4238 International Conflict**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the causes of international conflict, including theories about alliances, power, bargaining, arms races, conventional and nuclear deterrence, and nuclear weapon proliferation.

POLS 4239 Politics and the Military**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the major theories of civil-military relations and how these relations play out in modern politics. Topics covered include: civilian control of the military, military intervention in politics, the military in the developing world, and the experiences of minorities in the military.

POLS 4240 Asian Regional Security**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Applies international relations theory and conceptual frameworks to a broad discussion of regional policy with a focus on the changing role of China.

POLS 4270 Intelligence & National Security Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the roles played by the president, the National Security Council, the Cabinet Departments of State, Defense, and Homeland Security, and the intelligence community in the national security/defense policy-making process.

POLS 4300 Religion & Political Thought**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Religious traditions of Judaism, Christianity, and Islam as sources of political ideas.

POLS 4330 Liberalism and the Modern State**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Historical and conceptual development in the theory and practice of liberal democracy from the 17th century to the present.

POLS 4410 Asia and the United States**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

How the U.S. and Asian countries grapple with key issues facing the world today such as trade, security, and environment.

POLS 4438 Legal Research and Writing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides a comprehensive overview of the fundamentals of legal research and writing including finding the law, employing research aids, updating and validating research, using legal citation form, reading and analyzing precedents and statutes, and employing rule-based reasoning in writing legal documents.

Prerequisite(s): A minimum grade of "C" in POLS 1101.**POLS 4440 Immigration Law and Policy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analyzes the development and implementation of immigration law and policy, and current controversies in the field, employing a comparative perspective. Explores the intersection of immigration policy with fundamental principles of sovereignty, national security, equality and human rights.

POLS 4460 Politics of East Asia**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Primer on the history, nationalism, political institutions, maritime disputes and economic development of Southeast and East Asia. Offers a comprehensive and integrated introduction to the present problems and issues of the region.

POLS 4490 Russian Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Political change in the former Soviet Union with emphasis on the new direction of the political, economic, and social transformation of the regime. Comparison of tsarist autocracy, Soviet totalitarianism, and the contemporary Russian political system.

Prerequisite(s): A minimum grade of "C" in POLS 1150 or POLS 2100 or POLS 2200 or POLS 2290.**POLS 4491 How to Win a Political Campaign****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will address fundamental elements of campaign operations from candidate suitability to voter mobilization as a practice. The goal of the course is simply to provide relevant real-world training for students to engage in meaningful political engagement in the electoral process.

POLS 4510 National Security of the Developing South**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of the role, behavior and perspective of Developing South states in the international system, including ethnic conflicts, war, and their search for stability within a chaotic world.

Prerequisite(s): POLS 1150 or INTS 2130.

POLS 4520 Comparative Judicial Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Comparative survey of judicial procedures in political systems of the Global North and the Global South.

POLS 4530 Marxism, Socialism, and Democracy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Readings in Marxist and other socialist texts as well as critiques of socialism. Examination of communist regimes, revolutions, and social democratic governments. Evaluation of significance for contemporary democratic theory and practice.

POLS 4534 Feminist Political Thought**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines how conceptions of gender have informed notions of political agency, community, and identity. This course foregrounds the role of gender relations in redefining the nature and significance of politics.

POLS 4550 Insurgency & Counterinsurgency**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the forms of organized movement aimed at the overthrow of a government through the use of violence. A survey of the measurements taken by a government to defeat insurgency and/or to resolve civil war.

POLS 4560 Comparative Foreign Policy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of various theories of state type and foreign policy behavior and evaluation of such theories in foreign policy analysis.

POLS 4570 Politics and Security in Southwest Asia**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth understanding of the political and security challenges confronting Southwest Asia (Pakistan, Afghanistan, India) and how those challenges affect global security.

POLS 4580 Violent Non-State Actors**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the different types of VNSAs and how they challenge the nation-state.

POLS 4581 Model United Nations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Prepares students for Georgia Southern's participation in the National Model United Nations Conference in New York City in the spring of each year. Students learn the structure, function and organization of the United Nations as well as in-depth knowledge of the particular country that they will be representing in New York. Emphasis is placed on learning parliamentary procedure and diplomatic skills as part of the research conducted for becoming an advocate of the country being represented.

Prerequisite(s): A minimum grade of "C" in INTS 3551 or POLS 3551.

POLS 4582 Model United Nations II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed for students in the second year of their participation on Georgia Southern University's National Model United Nations (NMUN) delegation. In addition to studying a different country and region of the world which requires students to learn the history, culture, and foreign policies of their assigned country, NMUN students also research and write on topics in different United Nations committees. Second-year delegates also take on added responsibility to plan, coordinate, and execute three Georgia Southern-sponsored Model United Nations conferences. Emphasis is placed on learning the intricacies and nuances of parliamentary procedure as it applies to both the Middle School and High School conferences conducted by Georgia Southern University.

Prerequisite(s): A minimum grade of "C" in INTS 3551 or POLS 3551.

POLS 4583 Theories of Justice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A consideration of the primary theories of justice formulated through history. Examines and evaluates the theoretical foundations of conceptions of justice from a variety of perspectives.

Prerequisite(s): CRJU 1100 or POLS 1101.

POLS 4791 Field Internship in Political Science**3-12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The internship is designed to give students practical experience in a government-qualified agency and/or environment.

Prerequisite(s): POLS 1101 and POLS 2101; departmental approval required.

POLS 4890 Independent Study in Political Science**1-12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides opportunity to work one-on-one with an instructor to tailor a subject of interest to the student.

POLS 5101 Global Cybersecurity**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth study of cybersecurity from a global perspective. Topics include cyberterrorism, cybercrime, cyberwarfare, defense and offensive cyberwarfare; the role of nation-states in the proliferation of cyber attacks as a force multiplier; region-specific norms addressing privacy and intellectual property; and the international system: cyber conflicts, threats to security, non-state actors.

Cross Listing(s): CRJU 5101, CRJU 5101G, POLS 5101G.

POLS 5105 Homeland Security**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of the policies, administration, and organizations in the field of homeland security. Students in this course will analyze the political, operational, tactical, and environmental factors considered in making homeland security policy, with an emphasis on the U.S. in a global, comparative context. Topics include: the federal government's role in homeland security (FEMA Director, Attorney General, Secretary of Defense, Secretary of State, National Military Command Center (NMCC), the National Security Council, and the Joint Operations Center (JOC), the inter-governmental relationships within this issue area; military and civilian relationships in policy implementation; comparative and international homeland security policies; and homeland security strategic planning.

Cross Listing(s): CRJU 5105, CRJU 5105G, POLS 5105G.

POLS 5630 Seminar in American Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A systematic focus on major themes and issues in American public policy and their roots in American politics.

Prerequisite(s): A minimum grade of "C" in POLS 2101 and POLS 2130.

Cross Listing(s): POLS 5630G.

POLS 5631 Seminar in Political Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A seminar focusing on selected theoretical topics. Emphasis will be placed on normative theory and the history of political thought.

Prerequisite(s): A minimum grade of "C" in POLS 2101 and POLS 2130.

Cross Listing(s): POLS 5631G.

POLS 5633 Seminar in International Relations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to familiarize students with the theories which guide the conduct and analysis of international relations. These theories are examined in both their classical and contemporary context and used to evaluate and assess international relations' phenomena.

Prerequisite(s): A minimum grade of "C" in POLS 2101 and POLS 2130.

Cross Listing(s): POLS 5633G, INTS 5633, INTS 5633G.

POLS 5634 Seminar in Comparative Politics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides an overview of the comparative method and theory building in comparative politics focusing on the macro-structural, rational choice, cultural and statist approaches. Furthermore, it analyzes various themes within Comparative Politics: political culture, regimes and regime transitions, elections and party systems, ethnicity and nationalism, political mobilization, revolution, civil wars and insurgencies. The topical focus is substantiated with relevant case studies, case comparisons and cross-case analysis to explore the diversity of the field and political processes across the world.

Prerequisite(s): A minimum grade of "C" in POLS 2101 and POLS 2130.

Cross Listing(s): POLS 5634G, INTS 5634.

POLS 5635 Seminar in International Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An analytical study of the organization, powers, and problems of global and regional international organizations.

Prerequisite(s): A minimum grade of "C" in POLS 2101 and POLS 2130.

Cross Listing(s): POLS 5635G, INTS 5635, INTS 5635G.

POLS 5101G Global Cybersecurity
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth study of cybersecurity from a global perspective. Topics include cyberterrorism, cybercrime, cyberwarfare, defense and offensive cyberwarfare; the role of nation-states in the proliferation of cyber attacks as a force multiplier; region-specific norms addressing privacy and intellectual property; and the international system: cyber conflicts, threats to security, non-state actors. Graduate students will attend class sessions and participate in class discussions, complete assigned readings before the date indicated on the syllabus, write four 2-4 page reaction papers/presentations, one Take-Home Comprehensive Exam, and one Research Paper.

Cross Listing(s): CRJU 5101, CRJU 5101G, POLS 5101.

POLS 5105G Homeland Security
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of the policies, administration, and organizations in the field of homeland security. Students in this course will analyze the political, operational, tactical, and environmental factors considered in making homeland security policy, with an emphasis on the U.S. in a global, comparative context. Topics include: the federal government's role in homeland security (FEMA Director, Attorney General, Secretary of Defense, Secretary of State, National Military Command Center (NMCC), the National Security Council, and the Joint Operations Center (JOC), the inter-governmental relationships within this issue area; military and civilian relationships in policy implementation; comparative and international homeland security policies; and homeland security strategic planning. Graduate students will: Specific Assignments/Experiences 1) Students will write a major research paper 2) Students will lead class presentation 3) Students will write a book review of selected topic.

Cross Listing(s): CRJU 5105, CRJU 5105G, POLS 5105.

POLS 5630G Seminar in American Politics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A systematic focus on major themes and issues in American public policy and their roots in American politics. Graduate students will complete additional course assignments and assessment instruments to meet graduate standards, as determined by the instructor.

Cross Listing(s): POLS 5630.

POLS 5631G Seminar in Political Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A seminar focusing on selected theoretical topics. Emphasis will be placed on normative theory and the history of political thought. Graduate students will complete additional course assignments and assessment instruments to meet graduate standards, as determined by instructor.

Cross Listing(s): POLS 5631.

POLS 5633G Seminar in International Relations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to familiarize students with the theories which guide the conduct and analysis of international relations. These theories are examined in both their classical and contemporary context and used to evaluate and assess international relations' phenomena, such as international conflict, international trade and finance, and international human rights. Graduate students will complete additional course assignments and assessment instruments to meet graduate standards, as determined by the instructor.

Cross Listing(s): POLS 5633, INTS 5633, INTS 5633G.

POLS 5634G Seminar in Comparative Politics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides an overview of the comparative method and theory building in comparative politics focusing on the macro-structural, rational choice, cultural and statist approaches. Furthermore, it analyzes various themes within Comparative Politics: political culture, regimes and regime transitions, elections and party systems, ethnicity and nationalism, political mobilization, revolution, civil wars and insurgencies. The topical focus is substantiated with relevant case studies, case comparisons and cross-case analysis to explore the diversity of the field and political processes across the world. Graduate students will complete additional course assignments and assessment instruments to meet graduate standards, as determined by the instructor.

Cross Listing(s): POLS 5634, INTS 5634, INTS 5634G.

POLS 5635G Seminar in International Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An analytical study of the organization, powers, and problems of global and regional international organizations. Graduate students will complete additional course assignments and assessment instruments to meet graduate standards, as determined by the course instructor.

Cross Listing(s): POLS 5635, INTS 5635, INTS 5635G.

POLS 6638 Proseminar in Social Science
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduces students to the foundations and controversies in social scientific research.

Cross Listing(s): ANTH 6638, SOCI 6638.

POLS 7030 Selected Topics in Political Science
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An opportunity for instructors to teach special topics within the discipline.

POLS 7130 Ethics in Government
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on experiences, approaches, and strategies for confronting and solving problems, accountability and responsibility of public officials for appropriate behavior, and ethical decision-making.

POLS 7131 Constitutional Law
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the political and social context in which Constitutional Law is made and interpreted, the legal reasoning that undergirds Constitutional lawmaking, and the impact on public administration in the U.S.

POLS 7132 Administrative Law
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Development, present status, and trends in American Administrative Law. Explores administrative actions by focusing on the legal authority and responsibilities of private parties relative to such agencies.

POLS 7133 Public Law & Administration
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the legal framework in which public managers must operate in the 21st century. Particular attention is given to understanding the implication of constitutional law on administrative behavior and decisions and on administrative laws designed to ensure due process and equal treatment for all citizens. The interrelationship of law and ethics for public managers is also examined.

POLS 7231 U.S. Foreign Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to familiarize students with the principles underlying and the process undertaken in the formulation and execution of United States foreign policy. Special attention is given to the role of the United States in the post-World War II period.

POLS 7232 Comparative Foreign Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth comparative study of the foreign policy of the United States, the European Union, Russia, the People's Republic of China, Japan, and other significant actors in global politics, emphasizing comparative methodology and theoretical framework.

POLS 7234 International Political Economy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the politics of international economic relations. Systemic and domestic explanations of international economic policy will be applied in various issue areas such as international wealth acquisition and transfer, strategies and the politics of development, trade, investment, exchange rates, debt, aid, and relief assistance. The dynamics that give rise to asymmetric wealth distributions and hegemonic transmutations will be given emphasis.

POLS 7330 Intergovernmental Relations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the interaction between the federal, state, and local levels of government in the United States. Special attention is given to the constitutional and fiscal relationships between these levels of government and the historical evolution of the nature of the relationships.

POLS 7332 State Government
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A systematic study of the growing role of the states in the development and administration of domestic social policy in the United States. Special attention is given to the capacity building in state government and the devolution of power to the states. Specific policy areas in state government including education, crime control, and economic development are examined in-depth.

POLS 7337 Environmental Politics and Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An overview of environmental and natural resource management in the United States. Particular attention will be paid to issues of regional importance, including water quality and availability, regulation and monitoring compliance, sustainable growth, and management within overlapping jurisdictions.

POLS 7436 Qualitative Research Design
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Analysis and practice of qualitative methodology in social science. Topics may include participant observation, ethnographic methods, interviews, case studies, content analysis, archival research and other innovative techniques.

POLS 7532 Public Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A systematic study of how public policy is developed, implemented, and evaluated. Attention is given to the skills of policy analysis, as well as, the social problems and cultural interpretations that lead to public policy. Illustrations from domestic policy in the United States are supplemented with insights from other nations.

POLS 7630 Seminar in American Government
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A graduate introduction to the basic structures, processes, and patterns of behavior of American national government, emphasizing the interfacing of politics, economics, and public policy.

POLS 7631 Seminar in Empirical Political Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of the prominent theoretical approaches used in empirical political inquiry. The philosophies of the social sciences and the construction of political explanation provide the foundation for embarking on original research necessary for the thesis stages of the program.

POLS 7632 Seminar in Comparative Politics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A systematic review of the empirical and theoretical literature concerning the structure, function, and problems of contemporary governments in developed and developing countries.

Prerequisite(s): Completion of POLS 1101.

POLS 7638 Social Theory
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the role of theory in the scientific endeavor and explores a number of theoretical perspectives, including structural-functionalism, conflict, feminist, exchange, rational choice, symbolic interaction, and the current debates over modernity and postmodernity.

POLS 7860 Internship in Political Science
6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

The internship allows students pursuing their M.A. degree to work in a professional setting relating to their chosen concentration in Political Science. Students will be required to complete a final paper detailing the experience of their internship, and defend their paper and experiences before a faculty committee.

POLS 7890 Directed Reading
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A structured, individualized research focus to be mutually designed by instructor and student.

POLS 7999 Thesis
1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A major research project structured jointly by the student and instructor.

PSYC Psychology

PSYC 1101 Introduction to Psychology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An overview of the fundamental subfields of Psychology, with an emphasis on applying the scientific method to study behavior and cognition in human and non-human animals.

PSYC 2010 Human Growth and Development
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of lifespan development with focus on physical, emotional, cognitive, and social development. Understandings of growth and development applied to classroom teaching and learning. Not for psychology majors.

Prerequisite(s): PSYC 1101.

PSYC 2099 Selected Topics
1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.

Scheduled on an irregular basis to explore special areas in psychology not offered in the regular curriculum and will carry a subtitle.

Prerequisite(s): PSYC 1101.

PSYC 2101 Careers, Ethics and Professionalism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of various careers in psychology. Students are introduced to the requirements of an assortment of positions, concepts related to the development of professional and personal competencies, and the ethics and values associated with the discipline as a whole.

Prerequisite(s): PSYC 1101.**PSYC 2231 Research and Analysis I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students are introduced to basic statistics and research methods used in psychology, including central tendency, variance, descriptives, correlation, t-tests and statistical software.

Prerequisite(s): A minimum grade of "C" in all of the following: PSYC 1101 and MATH 1101 or MATH 1111 or MATH 1112 or MATH 1113 or MATH 1232 or MATH 1441 or STAT 1401.**PSYC 2300 Global Persp in Devlp Tech****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Exploration of physical, cognitive, and social development from a multicultural viewpoint. Emphasis on cross-cultural research applied to human development across the lifespan.

Prerequisite(s): ENGL 1101.**PSYC 3040 Fund of Counsel and Psychother****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of personality theories and the behavior changing techniques arising from them. Emphasis on learning theory and environmental influences.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3050 Special Topics in Diversity****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to examine how different cultural factors influence the scientific study of psychological processes and behavior, with an emphasis on identifying social challenges, applying psychological principles to promote social change, and recognizing potential for prejudice and discrimination in oneself and others.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3095 Drugs and Behavior****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced exploration of the various factors involved in drug effects and abuse. Focus on laboratory methodology (with humans and non-humans) to examine drugs of abuse and some pharmacological treatments for neurological and psychiatric disorders.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3101 Abnormal Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to provide an introduction to the concepts of "normal" and "abnormal" behavior, the traditional categories of psychological disorders, and the etiology and treatment of these disorders.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3102 Cognitive Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the major theories of, and the methods for studying, mental processes. Major topics include perception, attention, memory, and decision making.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3103 Lifespan Developmental Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines psychological theories, research and application of psychology as these relate to a comprehensive overview of developmental processes from conception through older adulthood.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 or SOCI 2130.**PSYC 3104 Principles of Learning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces the basic principles and the scientific study of learning in human and nonhuman animals.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3105 Physiological Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the structure and function of the nervous system and its relationship to behavior, including coverage of the techniques and methods used to examine physiological processes.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3106 Social Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Studies the social determinants of human behavior and surveys current theories and findings in such major content areas as social cognition, attitudes, social influence, interpersonal attraction, prosocial behavior, aggression, prejudice, and group processes.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3141 Research and Analysis II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students are introduced to intermediate statistics and research methods used in psychology, including experimental control, validity, descriptive and inferential statistics.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 and PSYC 2231.**Corequisite(s):** PSYC 3142.**PSYC 3142 Research and Analysis II Lab****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

This lab will focus on psychological research design, data collection methods, and statistical analyses.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 and PSYC 2231.**Corequisite(s):** PSYC 3141.**PSYC 3170 Human Resource Development Skills****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to theoretical and applied intervention principles of human resources development for public and private settings.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3230 Psychology of Adjustment****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Studies the factors that promote psychological adjustment with emphasis on self-help techniques.

Prerequisite(s): A minimum grade of "C" PSYC 1101.**PSYC 3231 Psychology of Religion****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the literature of the psychology of religion, including the functions of religiousness, types of religious experiences, religious motivation, and the relationship between religion and mental health.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3232 Psychology of Gender****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines biological and environmental determinants of gender, as well as, the role of gender in cognitive functioning, personality, physical and mental health, interpersonal relationships, and work life.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**Cross Listing(s):** INTS 3232.**PSYC 3234 Industrial/Organizational Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to psychological study of behavior in the workplace, including application of psychology to such areas as personnel testing, job performance and employee morale.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 3235 Behavior Modification**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introductory survey of the application of learning principles and procedures used in the establishment, maintenance, and modification of complex human behavior in clinical situations, as well as the natural environment with particular attention given to ethical issues associated with the use of behavior change techniques.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3236 Psychology of Substance Abuse****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An intensive and critical analysis of the normative and deviant use of various substances with emphasis placed on substance use, misuse, and abuse within a framework integrating the psychological, social, and biological aspects of substance use throughout history, including stimulant, depressant, hallucinogenic, and psychotherapeutic drugs.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3237 Psychology of Human Sexuality****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on sexual motivation, attraction and love, sexual orientation, sexual techniques, sexual morals and politics, paraphilia, erotica, sexual dysfunctions and therapy, and the place of sexuality in the experience of being human, with secondary attention given to sexual anatomy and physiology, and contraception.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3331 Child Developmental Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines psychological theories, research and application of psychology as these relate to developmental processes from childhood through adolescence.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3332 Adolescent Developmental Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines psychological theories, research and application of psychology as these relate to developmental processes in adolescence.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 or SOCI 2130.**PSYC 3335 Personality Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys research findings on selected aspects of personality, as well as determinants and development of personality, research methods, and personality assessments.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3337 Psychological Tests and Measurements****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an overview of psychological assessment with emphasis on the construction and use of psychological tests.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3338 Leadership and Group Dynamics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Exploration of the social psychological approach to leadership development and the role of the leader in influencing group dynamics. Emphasis on the application of research findings in social psychology to the development of leadership skills.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3339 Older Adult Developmental Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines psychological theories, research and application of psychology as these relate to developmental processes in older adulthood.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 or SOCI 2130.**PSYC 3400 Introduction to Learning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the variables and processes responsible for conditioning and learning in humans and non humans. Application of principles and real-world examples. In the B.S. degree it counts as an elective only.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3410 Introduction to Behavior Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction and overview of basic concepts and principles of behavior analysis. Variables and processes responsible for conditioning and learning in human and non-human organisms will be discussed.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3420 Principles of Behavior Change****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced examination of the concepts and principles of behavior analysis and how they can be applied to make socially meaningful changes in behavior. Specific procedures to increase desirable behavior and decrease unwanted behaviors are highlighted, with a focus on human behavior.

Prerequisite(s): A minimum grade of "C" in PSYC 3410 or PSYC 3400.**PSYC 3425 Research Methods in Applied Behavior Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an introduction to research methodologies in behavioral sciences. An overview of single case research designs will be given including measurement, graphical display, and evaluation of behavior change interventions.

Prerequisite(s): A minimum grade of "C" PSYC 3410.**PSYC 3430 Behavior Assessment****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Overview of assessment and measurement techniques, with a focus on how to select, define, and measure behavior. A variety of assessment procedures (e.g., indirect and direct functional behavior assessments, preference assessments, etc.) will be covered to identify variables that establish and maintain undesirable behaviors. Single subject research designs will be discussed in relation to the evaluation of specific behavior assessment and change procedures.

Prerequisite(s): A minimum grade of "C" in PSYC 3410.**PSYC 3440 Behavior Change Techniques****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to advanced behavior change techniques and considerations. Topics will include procedures to establish new, strategies to prevent and reduce undesirable behaviors, advanced behavior change systems, and how to select, plan for, and monitor behavior change procedures to increase or decrease target behaviors in a variety of settings.

Prerequisite(s): A minimum grade of "C" in PSYC 3430.**PSYC 3500 Cognitive Neuroscience I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the neural basis of cognition with an emphasis on the nervous system, attention, sensation and perception, and methodology, including principles and applications derived from basic research.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 3510 Cognitive Neuroscience II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of Cognitive Neuroscience I. This course examines the neural basis of cognition with an emphasis on learning and memory, language, and control processes, including principles and applications derived from basic research.

PSYC 3534 Psychology of Language**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction focusing on the psychological mechanisms underlying the acquisition and use of language from cognitive and social psychological perspectives.

Prerequisite(s): A minimum grade or "C" in PSYC 1101 or LING 3533 or LING 3630.**Cross Listing(s):** LING 3534.

PSYC 3729 Service Learning in Psychology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Students engage in an instructor-approved project that relates psychology to a service-learning project. Instructor will establish criteria, including minimum hours of service, for successful completion of the course.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 or instructor permission.

PSYC 3899 Directed Study in Experiential Learning**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students explore unique, experiential learning opportunities related to psychology not offered in the regular curriculum through a directed study arrangement. This course includes components that meet the experiential learning requirement in the curriculum.

Prerequisite(s): A minimum grade of "C" earned in PSYC 1101.

PSYC 3900 Research Experience**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students work with a faculty member on his/her research to gain experience on a research project.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 and instructor permission.

PSYC 4060 Behavior Modification**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Research based methods of generating behavioral change, their empirical foundations and their applications in clinical, educational, and social settings.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 4099 Selected Topics**1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.**

Scheduled on an irregular basis to explore special areas in psychology not offered in the regular curriculum and will carry a subtitle.

Prerequisite(s): A minimum grade of "C" in PSYC 1101 or instructor permission.

PSYC 4102 Clinical Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Application of psychological theories to the understanding and treatment of behavioral problems and disorders, including the history of clinical psychology, educational and training requirements, and specialized areas of practice.

Prerequisite(s): A minimum grade of "C" in PSYC 3101.

PSYC 4110 Senior Seminar**1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Reading and discussion group concentrating on selected contemporary issues in psychology, ethics, and careers. Open only to psychology majors.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 4131 Research and Analysis III**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students are introduced to advanced statistics and research methods used in psychology, including power, statistical errors, and analysis of variance.

Prerequisite(s): A minimum grade of "C" in PSYC 3141.

PSYC 4132 Research and Analysis III Lab**1 Credit Hour. 0 Lecture Hours. 1 Lab Hour.**

Develop and conduct a required, original research project. Students apply statistical procedures to analyze data and compose an empirical article that conforms to APA standards.

Prerequisite(s): A minimum grade in "C" and prior or concurrent enrollment in PSYC 4131.

PSYC 4143 Senior Research**4 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

Students design, execute, write up, and present an original empirical research project.

Prerequisite(s): A minimum grade of "A" in PSYC 3141 or a minimum grade of "C" in PSYC 4131 or permission of instructor.

PSYC 4150 Health Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Surveys the application of psychological principles in the treatment and prevention of health related problems.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 4170 Women and Mental Health**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A review of current research and theory related to women's mental health, including psychological phenomena and disorders prevalent at higher rates among women and a discussion of biopsychosocial factors influencing gender differences in mental health and illness.

Prerequisite(s): A minimum grade of "C" in PSYC 3101.

PSYC 4191 Learning and Behavior**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A continuation of Learning and Behavior I. A more in-depth exploration of classical and operant conditioning with the requirement of conducting experiments with non-human animals to illustrate concepts and principles surveyed in Learning and Behavior I. Students collect and analyze data to write research reports. Laboratory component with rotating emphasis (depending on instructor): cognitive, behavioral, and biological.

Prerequisite(s): A minimum of "C" in PSYC 3141.

PSYC 4431 Motivation and Emotion**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines theories and research in the areas of motivation and emotion, with emphasis on humans.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 4432 Sensation and Perception**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Presents some fundamental concepts, methodologies, and research findings in the study of human sensory and perceptual functioning.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 4434 Animal Behavior**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of methods, theories, and research in nonhuman animal behavior from the perspective of psychology, with attention to comparative and evolutionary theories of human behavior.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 4435 Comparative Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A comparison of the similarities and differences in adaptations, behaviors, and mental processes that enable organisms to function effectively within their environments viewed from mechanistic, comparative, developmental, and evolutionary perspectives.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 4436 Theories of Psychotherapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students with a comprehensive review of the major theoretical orientations used in the practice of psychotherapy, including issues related to psychotherapy research and the applicability of these theories to a range of clients.

Prerequisite(s): A minimum of "C" in PSYC 3101.

PSYC 4440 Evolutionary Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the role of evolutionary theory in psychological science. This course emphasizes how human behavior and cognition develop from an interaction between life experiences and inherited interests, tendencies, and abilities that have been shaped by natural and sexual selection.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.

PSYC 4485 Evidence-Based Decision-Making**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will apply previously-learned and novel major content and analytical techniques to make data-driven recommendations to solve real-world problems. There will be special emphases on effective group decision-making as well as the creation of executive reports that demonstrate clear integration of results, data visualization, and recommendations.

Prerequisite(s): A minimum grade of "C" in PSYC 3141.**PSYC 4502 Psychology and Law****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced introduction to the empirical application of psychology to the legal system, including the application of research in social, cognitive, and developmental psychology. Major content areas include eyewitness memory and identifications, interrogations and confessions, jury decision making, and criminal sentencing.

Prerequisite(s): A minimum grade of "C" in PSYC 1101.**PSYC 4530 History and Systems****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the development of experimental and clinical psychology with emphasis on relating the development to current issues in psychology.

Prerequisite(s): A minimum grade of "C" in PSYC 3141.**PSYC 4599 Psychology Capstone Course****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

In this course, students will integrate and synthesize information from multiple areas of psychology to demonstrate their mastery of psychology-related knowledge and skills. This course is intended to be taken in psychology major's senior year.

Prerequisite(s): A minimum grade of "C" in PSYC 3141 and PSYC 3142.**PSYC 4630 Senior Seminar****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth exploration of the theory and research finding pertaining to a broad topic integrating various areas of psychology.

Prerequisite(s): A minimum grade of "C" in PSYC 3141 and at least 17 hours of psychology.**PSYC 4640 Neuroscience Capstone Course****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Directed reading course in the field of neuroscience that serves as a capstone course for the neuroscience track and minor.

PSYC 4740 Classroom Leadership Practicum**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the scholarship of teaching psychology. Student provides academic support and mentoring. The course instructor will establish responsibilities and performance criteria, which may include, but are not limited to, mentoring, leading or co-leading class discussions, planning and delivering course presentations under supervision, and assisting with the development of class and out-of-class activities. Scholarly paper that integrates the literature on the teaching of psychology with actual experience is required.

Prerequisite(s): Completion of PSYC 1101, permission of instructor, and a grade of "A" or "B" in the course of which the student will serve as student leader.**PSYC 4790 Senior Internship****3-9 Credit Hours. 0-99 Lecture Hours. 0-99 Lab Hours.**

Through both classroom and field work, students gain practical experience through volunteer field work in a setting related to psychology. Special permission is required for course registration.

Prerequisite(s): Instructor permission.**PSYC 4791 Practicum in Behavior Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Supervised experiences at a predetermined site promoting the application of behavior analysis to unique populations and settings. Consists of a weekly seminar to promote further application and understanding of behavioral concepts and principles.

Prerequisite(s): Permission of instructor.**PSYC 4832 Directed Empirical Review****1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Consists of in-depth investigation of an area within psychology not normally covered in the curriculum.

Prerequisite(s): PSYC 1101 or permission of instructor.**PSYC 4841 Directed Research Project****4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Under the supervision of a faculty member, the individual student completes all phases of a research project in an area of the student's interest.

Prerequisite(s): PSYC 4131 or permission of instructor.**PSYC 4991 Learning and Behavior Lab****1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.**

Conduct behavioral experiments with nonhuman animals. Collect and analyze data and write research reports.

Prerequisite(s): A minimum grade of "C" in PSYC 3141.**PSYC 5060 Basic Behavior Principles and Behavior Change****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Basic principles of behavior analysis, the definition and characteristics of applied behavioral analysis, and behavior change procedures, including positive and negative reinforcement, schedules of reinforcement, and antecedent intervention.

Prerequisite(s): A minimum grade of "C" in PSYC 3400.**PSYC 5061 Advanced Behavioral Assessment****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Measurement of behavior, displaying and interpreting behavioral data, experimental evaluation of interventions, selecting intervention outcomes and strategies, behavioral assessment, and ethical considerations. Includes selecting and defining target behaviors, examination of single-subject experimental designs, planning and evaluating behavior analysis research, functional behavior assessment, and a practicum experience.

Prerequisite(s): A minimum grade of "C" in PSYC 5060.**Cross Listing(s):** PSYC 5061G.**PSYC 5062 Advanced Behavior Change Techniques****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Seminar course in which students design, implement, and behavior change programs to practice selection of intervention outcomes and strategies, behavioral measurement and assessment, use behavior change procedures and systems support. Includes a comprehensive survey of recent literature on applied behavior analysis in clinical, educational, vocational, and social settings and examination of ethical issues surrounding behavior change programs.

Prerequisite(s): A minimum grade of "C" in PSYC 5061.**Cross Listing(s):** PSYC 5062G.**PSYC 5700 Practicum in Behavior Analysis****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course provides students with the opportunity to engage in the applied practice of behavior analysis under the supervision of trained behavior analysts. Instructor approval is required for this course.

Prerequisite(s): A minimum grade of "B" in PSYC 3410.**Cross Listing(s):** PSYC 5700G.**PSYC 5010G Special Topics in Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.****PSYC 5020G Special Topics in Psychology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

PSYC 5060G Basic Behavior Principles and Behavior Change
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Basic principles of behavior analysis, the definition and characteristics of applied behavioral analysis, and behavior change procedures, including positive and negative reinforcement, schedules of reinforcement, punishment, imitation, shaping and chaining, extinction, differential reinforcement, and antecedent interventions. Essential material for this course is covered in PSYC 3400 (Introduction to Learning) or PSYC 4090 (Learning and Behavior) and 4091 (Learning and Behavior Laboratory).

Prerequisite(s): Acceptance to graduate studies or baccalaureate degree in psychology.

Cross Listing(s): PSYC 5060.

PSYC 5061G Advanced Behavioral Assessment
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Measurement of behavior, displaying and interpreting behavioral data, experimental evaluation of interventions, selecting intervention outcomes and strategies, behavioral assessment, and ethical considerations.

Includes selecting and defining target behaviors, examination of single-subject experimental designs, planning and evaluating behavior analysis research, functional behavior assessment, and a practicum experience.

Prerequisite(s): A minimum grade of "D" in PSYC 5060 or PSYC 5060G and acceptance to the graduate studies or baccalaureate degree in psychology.

Cross Listing(s): PSYC 5061.

PSYC 5062G Advanced Behavior Change Techniques
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Seminar course in which students design, implement, and behavior change programs to practice selection of intervention outcomes and strategies, behavioral measurement and assessment, use behavior change procedures and systems support. Includes a comprehensive survey of recent literature on applied behavior analysis in clinical, educational, vocational, and social settings and examination of ethical issues surrounding behavior change programs.

Prerequisite(s): A minimum grade of "D" and prior or concurrent enrollment in PSYC 5061 or PSYC 5061G and acceptance to graduate studies or a baccalaureate degree in psychology.

Cross Listing(s): PSYC 5062.

PSYC 5100G Women & Mental Health

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A review of current research and theory related to women's mental health, including psychological phenomena and disorders prevalent at higher rates among women and a discussion of biopsychosocial factors influencing gender differences in mental health and illness.

PSYC 5700G Practicum in Behavior Analysis

1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides students with the opportunity to engage in the applied practice of behavior analysis under the supervision of trained behavior analysts. Instructor approval is required for this course. Graduate students will learn how to apply behavior analytic principles to a variety of situations and populations. Students will get explicit practice and feedback on implementing and supervising behavioral programs.

Prerequisite(s): A minimum grade of "B" in PSYC 6400.

Cross Listing(s): PSYC 5700.

PSYC 6100 Directed Scholarly Activities in Psychology

1-6 Credit Hours. 1-6 Lecture Hours. 1-6 Lab Hours.

Scholarly project supervised by a psychology department faculty member qualified in the student's area of interest. Credit will vary depending on the work to be completed. Course may be repeated up to a total of six (6) credit hours. Student must be enrolled in a graduate program.

Prerequisite(s): Permission of the student's academic advisor, the supervising instructor, and the head of the psychology department.

PSYC 6150 Conflict Resolution

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Discussion of social processes of conflict between parties (individuals or groups) and advanced techniques for collaborative resolutions with special emphasis on mediation processes.

PSYC 6300 Leadership and Group Dynamics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Exploration of the social psychological approach to leadership development and the role of the leader in influencing group dynamics. Emphasis on the application of research findings in social psychology to the development of leadership skills.

PSYC 6400 Concepts and Principles of Behavior Analysis

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The first course in the behavior analysis masters' sequence. This course introduces students to the foundational concepts and principles of behavior analysis as they apply to both human and non-human organisms.

Corequisite(s): PSYC 6405.

PSYC 6405 Concepts and Principles of Behavior Analysis LAB

1 Credit Hour. 0 Lecture Hours. 2 Lab Hours.

The laboratory course associated with PSYC 6400. This course extends the concepts and principles learned during the lecture, and allows students to apply and observe these concepts and principles with non-human organisms.

Corequisite(s): PSYC 6400.

PSYC 6410 Measurement in Behavior Analysis

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on precisely defining, measuring, and graphing behavioral data. Students will learn how to quantify behaviors and behavioral changes in a variety of methods, with an emphasis on a natural science approach to measuring behaviors.

PSYC 6420 Research Methods in Applied Behavior Analysis

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course builds on the material covered in PSYC 6410 and introduces research methods commonly used in behavior analysis research and practice. Students will learn how to conduct behavioral research using inductive and deductive research methods. A strong emphasis is placed on single-case design research methodologies.

Prerequisite(s): A minimum grade of "B" in PSYC 6400.

PSYC 6430 Assessment and Treatment of Challenging Behavior

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course involves a variety of methods for assessing the variables responsible for and maintaining disruptive behaviors. Students will learn the wide range of assessment techniques including direct, indirect, and experimental functional behavior assessment. Students will learn and appropriately select a variety of methods for decreasing challenging behaviors, while building socially valid alternative behaviors.

Prerequisite(s): A minimum grade of "B" in PSYC 6400.

PSYC 6440 Establishing and Strengthening Behavior

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will teach students how to assess current levels of a variety of social, academic, and functional skills for learners of all kinds. Based on assessment results, students will learn to select and apply a variety of techniques to establish and strengthen new behaviors.

Prerequisite(s): A minimum grade of "B" in PSYC 6400.

PSYC 6450 Ethics for the Behavior Analyst

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This class introduces students to ethical principles in the field of behavior analysis, as well as the compliance disciplinary systems involved in the professional practice of behavior analysis.

Prerequisite(s): A minimum grade of "B" in PSYC 6400.

PSYC 6460 Instructional Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to instructional design principles. Students will learn how to analyze instructional content, select appropriate teaching, practice, and testing stimuli, as well as sequence their instruction in a way to promote generativity.

Prerequisite(s): A minimum grade of "B" in PSYC 6400.**PSYC 6480 Behaviorism as a Philosophy of Science****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will build on the students' conceptual understanding of behavior analysis, and will introduce the philosophical underpinning of behavior analysis. While a variety of philosophical viewpoints will be shared, emphasis will be placed on Skinner's philosophy of radical behaviorism.

Prerequisite(s): A minimum grade of "B" in PSYC 6400.**PSYC 6490 Designing, Implementing, and Supervising Behavioral Programs****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will combine the information learned in previous courses. Students will learn how to write behavioral programs, train staff to implement the programs, as well as methods for ethical and kind supervision.

Prerequisite(s): A minimum grade of "B" in PSYC 6400 and PSYC 6460.**PSYC 6500 Independent Research in Behavior Analysis****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course allows students the opportunity to engage in and conduct behavior analytic research. Instructor approval is required for this course.

Prerequisite(s): A minimum grade of "B" in PSYC 6420.**PSYC 6600 Seminar in Behavior Analysis Research****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This class will focus on the advanced applications and study of behavior analysis to a variety of areas. The topics and themes of the course will rotate based on faculty expertise.

Prerequisite(s): A minimum grade of "B" in PSYC 6400.**PSYC 7030 Selected Topics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Scheduled on an irregular basis to explore several areas in psychology not offered in the regular curriculum and will carry a subtitle.

PSYC 7111 Supervision**1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.**

Students will receive feedback and consultation designed to encourage maturation of psychotherapy skills and competencies, including therapist-client transactions, self-reflective skills, and report writing.

PSYC 7130 Statistics for Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Covers the logic of statistical inference, fundamental principles of analysis of variance, complex analysis of variance designs, as well as selected regression, multivariate and non-parametric procedures with emphasis upon the application of these methods in psychological research.

PSYC 7131 Research Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course involves examining research techniques for answering questions in psychological science. Content is specific to research design in the social sciences, including topics related to reliability, validity, and advanced statistical analyses. This course emphasizes the development, application, and evaluation of research design in psychological science.

Prerequisite(s): A minimum grade of "C" in PSYC 7130.**PSYC 7132 Advanced Learning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the science of behavior and the mechanisms of learning that account for the behavior of human and nonhuman animals. The course focuses on the mechanisms and interpretations of classical and operant conditioning.

PSYC 7133 Affective and Cognitive Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of contemporary cognitive psychology research and theory. Classic and recent theoretical approaches will be covered. The course also covers emotion and affect within the context of cognitive models, research, and theory.

PSYC 7134 Physiological Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a graduate level survey of the nervous system. The course emphasizes functional relationships between the nervous system and behavior as well as techniques and methods used to examine the physiological bases for human and nonhuman animal behavior.

PSYC 7136 Geropsychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover psychological aspects of aging in relation to both theory and practice. Students will become familiar with aging related changes in mental and physical functioning, common disorders, public policy regarding age-related issues, and successful aging.

PSYC 7231 Assessment I: Psychometric Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is the first in a series and provides theoretical grounding for psychological assessment. Topics to be covered include statistical properties of tests; test development, construction, and analysis; types of tests; and legal issues in testing.

PSYC 7232 Foundations of Psychotherapy I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced examination of several of the major therapy systems, comparing them, contrasting them, and looking for the bases of meaningful integration. Systems examined include: humanistic, existential, and postmodern. Also examined will be research in psychotherapy.

Corequisite(s): PSYC 7237.**PSYC 7233 Ethics and Professional Issues****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to provide the clinician in training with a clear understanding of the legal and ethical responsibilities incurred when working with clients in a clinical capacity. Lectures and class discussion will cover specific legal and ethical principles and the application of those principles in clinical settings. Topics related to professionalism will also be covered.

PSYC 7234 Assessment II: Intellectual Assessment**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is the second of the assessment series and provides an introduction and the beginning of skill development in assessing persons' intellectual abilities, academic achievement, and cognitive strengths and weaknesses.

Prerequisite(s) A minimum grade of "B" in PSYC 7231.**PSYC 7235 Group & Family Therapy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides the clinician in training with an overview of the concepts and various theories of group and family psychotherapy.

Prerequisite(s): A minimum grade of "B" in PSYC 7433.**PSYC 7236 Neuropsychology and Neuropsychological Assessment****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course serves as an introduction to the anatomical, empirical, and clinical aspects of neuropsychology, with an emphasis on clinical assessment.

PSYC 7237 Psychotherapy Skills I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice and practical application of the theories covered in PSYC 7232.

Corequisite(s): PSYC 7232.

PSYC 7238 Child Psychotherapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The general goal of this course is to provide graduate students, who are therapists in training, with a comprehensive overview of the theories and concepts of child psychotherapy.

Prerequisite(s): A minimum grade of "B" in PSYC 7237.

PSYC 7239 Psychopathology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on descriptions, hypothesized etiologies, and treatment modalities of major classes of mental disorders as classified by the Diagnostic and Statistical Manual of the American Psychiatric Association.

PSYC 7331 Advanced Developmental Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the major themes, theories, and research in developmental psychology.

PSYC 7332 Advanced Social Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the major themes, theories, and research in social psychology.

PSYC 7333 Psychotherapy Skills II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The purpose of this course is to practice skills with some of the basic interventions associated with the learning-based theories and to integrate these interventions with some of the practices learned in the first skills course.

Prerequisite(s): A minimum grade of "B" in PSYC 7232.

Corequisite(s): PSYC 7433.

PSYC 7334 Couples and Family Psychotherapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will learn the theory and practice associated with couple and family psychotherapy, including basic principles of systems therapy, common factors and effective practice strategies in couple and family therapy, unique features of interrupting dysfunctional patterns of close relationships, and characteristics of healthy couples and families.

PSYC 7335 Assessment III: Personality Assessment**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is the third course in the assessment series and focuses on measurement of personality constructs, attributes, and unique characteristics that organize and define an individual.

PSYC 7337 Clinical Health Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will learn practical information and guidance on how to apply clinical health psychology research and techniques to make decisions and modify patients' behavior. Students will learn about the interaction of physical health with the individual's cognitive, emotional, behavioral, and social functions. Students will learn specific skills related to clinical health psychology.

PSYC 7390 Development of Original Research**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course provides students with the opportunity to develop an original research idea and implement the project with the guidance of a mentor.

PSYC 7433 Foundations & Skills II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The focus of this course is to continue to study and practice of the major therapy systems, comparing them, contrasting them and looking for the bases of meaningful integration. Learning-based theories are emphasized in this course.

Prerequisite(s): A minimum grade of "B" in PSYC 7232.

PSYC 7490 Advanced Directed Study**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course offers the student directed study at the graduate level, which provides an examination and analysis of current literature pertaining to selected content areas in psychology.

PSYC 7531 Advanced Personality Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an in-depth investigation into recent advances in personality theory, measurement, and empirical work.

PSYC 7631 Seminar in Teaching Psychology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Seminar in Teaching Psychology involves lecture, discussion, activities and homework designed to explore how to effectively teach psychology classes at the university level. Using readings from books and journals, along with personal experience, the class will discuss and apply issues such as how to plan effective lectures, test writing and grading, demonstrations, leading discussions, handling controversial issues, dealing with disruptive students, seeking out opportunities for experiential learning, and so on.

PSYC 7633 Psychotherapy Skills III: Child and Family Interventions**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the development of therapy skills and practices associated exclusively with children and families.

PSYC 7730 Practicum I**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The general goal of Practicum I and II is to provide graduate students, who are therapists in training, with additional support and training while they are engaged in field work at various mental health settings. (These settings may include both on-campus and off-campus programs such as the GS Psychology Clinic, GS Counseling Center, Regents Center for Learning Disorders, outpatient community mental health centers, inpatient psychiatric/correctional/residential treatment facilities).

Prerequisite(s): A minimum grade of "B" in PSYC 7233, PSYC 7234, PSYC 7237, PSYC 7239.

PSYC 7731 Practicum II**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Continuation of Practicum I.

Prerequisite(s): A minimum grade of "B" in PSYC 7730.

PSYC 7733 Combined Practicum Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will bring students in their first and second year of practicum into a peer supervision group focused on clinical practice, case management, and deepening of psychotherapeutic skills and techniques. Students will be engaged in field work at community mental health agencies during this course. In addition, faculty instructors will choose a relevant theme for seminar discussions for the semester.

PSYC 7810 Research Experience**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students work with a faculty member on a research project in progress, obtaining experience and skills to enhance their understanding of the research process.

PSYC 7999 Thesis**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students will complete a research project and must follow the scientific standards and best practices associated with question development, writing, research design, statistical analysis, and interpretation of data.

PSYC 9130 Professional Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines current issues in professional psychology. It also prepares students for pre-doctoral internship, post-doctoral work, licensure, and independent practice.

PSYC 9131 Supervision and Consultation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will explore professional consultation and clinical supervision, focusing on developing knowledge and skills related to the construction, dissemination and implementation of specialized programming for small and large systems; students also will learn theories, techniques and processes that will help them become more effective clinical supervisors.

PSYC 9230 Diversity Issues in Psychology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Students will learn about the social-psychological diversity in rural areas; the scientific literature on the impact of diversity on mental health; and the role of cultural identity development and social justice on psychotherapy assessment, consultation, and service delivery in rural areas.

PSYC 9235 History and Systems of Psychology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the development of experimental and clinical psychology with an emphasis on relating the development to current issues in psychology.

PSYC 9330 Rural Mental Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Students will learn about the current state of rural mental health, unique challenges in working in rural areas, ethical and professional considerations, and research-driven recommendations for working with specific populations in rural communities.

PSYC 9331 Psychopharmacology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to give the clinician in training a foundation in the use of medications to treat mental disorders.

Prerequisite(s): A minimum grade of "B" in PSYC 7236 and PSYC 7239.

PSYC 9711 Pre-Doctoral Internship I
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

The pre-doctoral internship is a sequence of three courses designed to ensure on-going contact with the university during the required year of practice prior to graduation. The internship agency is responsible, and holds full authority, for course content, assessment, and grade.

PSYC 9712 Pre-Doctoral Internship II
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

The pre-doctoral internship is a sequence of three courses designed to ensure on-going contact with the university during the required year of practice prior to graduation. The internship agency is responsible, and holds full authority, for course content, assessment, and grade.

Prerequisite(s): Satisfactory completion of PSYC 9711.

PSYC 9713 Pre-Doctoral Internship III
1 Credit Hour. 0 Lecture Hours. 0 Lab Hours.

The pre-doctoral internship is a sequence of three courses designed to ensure on-going contact with the university during the required year of practice prior to graduation. The internship agency is responsible, and holds full authority, for course content, assessment, and grade.

Prerequisite(s): Satisfactory completion of PSYC 9711 and PSYC 9712.

PSYC 9731 Rural Practicum
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides supervised experience in psychological assessment and psychotherapy in rural settings. Students will be placed in rural clinical sites. May be repeated for a maximum of 12 hours.

PSYC 9999 Dissertation
1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Students are provided support and direction in completing the doctoral dissertation. The course provides guidance from both the dissertation supervising chair and the dissertation committee. Students will complete a quantitative project and must follow the scientific standards and best practices associated with question development, writing, statistical analysis, and interpretation of data.

PSYG Psychology-GOML

PSYG 5610 Nature/Needs Talented/Gifted
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

PSYG 6600 Meth & Matls Child Talented
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A course covering the development of curriculum content and teaching materials for students identified as talented and gifted. Considerable time will be spent on organizing learning experiences and utilizing a variety of teaching methods.

PSYG 6620 Cur Child Talented and Gifted
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides a study of curriculum models, the types of curriculum needed for the Talented and Gifted, guidelines for developing curricular patterns which include subject or skill, core, interest, process, experiential bases of operations, and modular designs of community involvement. The course requirements include the development of curriculum of learning activities which will have greatest applicability and usability within the local school system.

PSYG 7600 Assessment Talented/Gifted
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to tests unique to assessing the developmental level and the potential achievement of children with talents and gifts. Emphasis is placed on the use of these tests in planning and selecting curricular programs and activities.

PUBH Public Health

PUBH 2131 Introduction to Community and Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduces the student to the core functions of public health with an emphasis on community health programs and current trends of population health. Exposes the student to the role of community health practice in maximizing the health status of all populations. Course will include an overview of the organizational structure of federal, state, and local health-related agencies and examine the interrelationship of political, social, cultural and economic dimensions of community based population health activities.

PUBH 2135 Introduction to Statistical Packages
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course gives an overview of the software packages available for statistical analysis. It will introduce students to statistical software packages such as SAS, R, and SPSS. Students will learn basic programming of various statistical packages for reading data, processing and transforming data, descriptive analysis, and data visualization in this course. This course will enable students to become familiar with powerful and widely-used programs for data management and analysis.

PUBH 3110 Public Health Writing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Public health routinely deals with many complicated factors, including biological and sociological considerations, and public health professionals are required to interact with a wide array of stakeholders, from community members, church leaders, and journalists to policy-makers. Therefore, clear and effective communication is a critical component of public health training. This course focuses on writing clear, concise, and coherent, evidence-based critical writing, covering fundamental principles of written communication with lay audiences and professionals as well. It provides hands-on training in a variety of writing styles encountered by daily public health practice and research.

Prerequisite(s): PUBH 2131.

PUBH 3130 Substance Use and Abuse
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores legal and illegal drug use in modern society. Issues related to the social, cultural, political and economic impact of drug use will be discussed. The emphasis in the course will be on prevention, treatment and effective education techniques for various practice settings and target populations.

PUBH 3131 Introduction to Chronic Diseases**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Chronic conditions (e.g. diabetes, cardiovascular disease, renal disease, obesity) are currently responsible for sixty percent of the global burden of disease and the World Health Organization predicts this to rise to eighty percent by the year 2020. This is one of the greatest challenges facing health care systems throughout the world and it places long-term health and economic demands on health care systems as the population ages. This course will provide students with the opportunity to study specific issues related to chronic disease epidemiology and management and their links to practice.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.**PUBH 3132 Health Care Systems and Advocacy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces students to the background and development of administrative settings for health care delivery in the United States by exploring trends and issues based on current health and medical care programs and practices and analyzing the current organizational structure of medical care services in the United States. Topics to be examined include the medical care process, factors affecting supply and distribution of health professionals and health facilities, health care costs, and financing of care through health insurance and governmental programs. Students will also learn health advocacy skills to plan community based interventions.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.**PUBH 3136 Principles of Environmental Health****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines health issues, scientific understanding of causes, and possible future approaches to control the major environmental health problems in industrialized and developing countries. Topics include how the body reacts to environmental pollutants; physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific basis for policy decisions; and emerging global environmental health problems.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.**PUBH 3138 Multicultural and Social Determinants of Health****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the characteristics, causes, and effects of health disparities in the U.S. Health Care System. It also provides students with a foundation to develop the knowledge, attitudes, and skills to become culturally competent health educators. The course explores how health education and promotion is shaped by the cultural, social and economic contexts in which individuals function.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.**PUBH 3215 Statistical Concepts in Epidemiology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Statistical Concepts in Epidemiology provides an introduction to biostatistical concepts and reasoning in epidemiologic studies. This course represents an introduction to the field and provides a survey of data and data types. Specific topics include tools for describing central tendency and variability in data; methods for performing inference on population means and proportions via sample data; statistical hypothesis testing and its application to group comparisons; and issues of power and sample size in study designs.

PUBH 3216 Data Collection and Analysis for Public Health**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses practical aspects of collecting and analyzing data for public health use. Within the context of the scientific method, this course will focus on public health surveillance, research, and other health monitoring activities. Topics include planning study activities, questionnaire administration, consideration of biologic and social risk factors for health outcomes, use of routinely collected data, and analytic considerations related to data collection.

PUBH 3231 Epidemiology and Biostatistics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces the student to the principles and practice of epidemiology and biostatistics. Students will be exposed to the historical development of epidemiology, concepts of causality, definitions of health and disease, and sources of community health data. Current principles and practices in the cause, prevention and control of diseases in various community settings will be emphasized.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.**PUBH 3232 Foundations of Health Education and Promotion Practice****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides junior and senior level majors with a colloquium to discuss current issues and topics in health promotion and education including philosophical foundations and principles underlying the field of health promotion and education practice, the Certified Health Education Specialist Competencies, organizations, scientific foundations, and employment potential.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.**PUBH 3314 Introduction to Public Health****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to give students a foundation in the core functions of the population-based public health (assessment, policy development, and assurance.) In addition, this course will examine the 10 essential services of public health within these core functions. Defining effective public health practice and providing knowledge about the technical, social, and political parameters related to public health research and practice are goals for this class. Students will gain an understanding of public health as a broad area of work that applies the benefits of current biomedical, environmental, social, and behavioral knowledge in ways that maximize the health status of all populations. This course is intended for non-majors.

PUBH 3330 Modifying Health Behaviors**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the major theoretical models used in public health practice for modifying health behavior. The efficacy of interventions in relation to current practices in public health, best practices and applications of theory-driven health behavior change are studied within the context of community-based settings. The focus of the class is to identify the critical factors necessary to create health behavior change in order to address the current Healthy People goals and objectives.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.**PUBH 3331 Stress Theory and Management in Health Promotion****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores issues related to the etiology of stress and stressors with emphasis on environmental, organizational, interpersonal and individual patterns of stress in various health promotion settings. Competency in the active management of stress and mobilizing support in health settings will be evaluated.

PUBH 3430 Sexuality Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores contemporary issues in human sexuality and prepares future health professionals to conduct sexuality education with diverse populations in a variety of settings (i.e., school, community, or worksite). Content is intended to help students increase their knowledge of sexuality, improve their ability to educate and promote sexual health and develop skills to increase their comfort level in discussing human sexuality.

PUBH 3431 Introduction to Global Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces the broad and growing field of global health. The course will discuss how health and illness is defined and explore the biological, cultural, social, and political forces that influence health at the global level. This is a survey course that will explore such topics as: comparative health systems, social determinants of health, health services and quality, healthcare policy, key stakeholders, and major global health initiatives. Throughout the course, an emphasis is placed on global health ethics and issues of social justice.

Prerequisite(s): Sophomore standing.

PUBH 3432 Introduction to Global Health Policy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces the range of cultural and policy approaches different countries take to health, healthcare access, and related population-level health interventions. As part of this course, students will compare different healthcare systems from selected countries.

Prerequisite(s): Sophomore standing and a minimum grade of "C" in PUBH 3431.

PUBH 3611 Health Honors Thesis Seminar I
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

This is a seminar course that prepares students to complete a senior honors thesis proposal.

PUBH 3612 Hlth Honors Thesis Seminar II
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

This is a seminar course that prepares students to complete a senior honors thesis proposal.

PUBH 4090 Selected Topics in Public Health
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Allows the student the opportunity to receive specialized and/or focused instruction in a public health topic not generally offered by the College.

PUBH 4114 Data Management and Visualization for Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course emphasizes data management and data visualization using SAS (Statistical Analysis System), Excel, and R software packages. The student will be introduced to SAS codes to input and output data, create temporary and permanent data sets, create formatted and labeled SAS data sets, merge and connect SAS data sets, and create formatted outputs. Students will learn the foundations of information visualization and sharpen their skills in communicating using health science data. Throughout the semester, we will use Excel, SAS, and R to explore graphic design concepts, storytelling, data wrangling, and plotting, and biostatistics as they apply to data communication. Students will learn how to improve communication through data visualization.

PUBH 4115 Epidemiologic Study Design and Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will focus on epidemiologic methods - primarily methods used in epidemiologic studies using existing data, cohort studies, case-control studies, and randomized controlled trials. The characteristics of all observational study designs will be discussed, as well as the rationale underlying the major techniques used to analyze data from these studies. Special attention will be devoted to assessing confounding and effect measure modification, both conceptually and analytically.

PUBH 4132 Health Education and Promotion Program Planning I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to the theory and application of community-based program planning and evaluation. The first of a two-course sequence, the focus will be on the development of a health promotions program plan designed to apply course content to a real-life health issue. Concepts in community assessment, organization, and mobilization for the purpose of addressing identified public health concerns will serve as the foundation for the planning process.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.

Corequisite(s): PUBH 4134.

PUBH 4133 Health Education and Promotion Program Planning II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to additional theory and application of community-based program planning and evaluation. The second of a two-course sequence, the focus will be on program implementation, evaluation, and reporting of the health promotion plan developed during the prior semester. Students will gain first-hand experience in conducting an evaluation of community health education program.

Prerequisite(s): A minimum grade of "C" in PUBH 4132.

PUBH 4134 Research Methods and Evaluation in Health Education and Promotion
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces the student to research methods used in health education and promotion. Examines the rationale and procedure to evaluate health education/promotion programs. Focuses on several topics including: research design, methods of program evaluation, planning research and evaluation, the politics and ethics of evaluation, measurement, sampling logistics, data analysis and the development of a student project.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.

Corequisite(s): PUBH 4132.

PUBH 4195 International Studies Abroad in Public Health
3-9 Credit Hours. 3-9 Lecture Hours. 0 Lab Hours.

This course offers students the opportunity to examine public health practices in a foreign country through travel abroad. Classroom instruction will be combined with on-site experiences to provide a realistic learning experience.

PUBH 4230 Global Maternal and Child Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will explore promotion and education efforts designed to improve the health, well-being, and quality of life for women and children globally. A review of the historical and contemporary maternal and child health trends and issues in the United States and throughout the world will be examined. Identifying the determinants of health and illness including the biological, behavioral, socio-economic, demographic, cultural and health care systems influences on maternal and child health will be central to the course.

Prerequisite(s): Sophomore standing and a minimum grade of "C" in PUBH 2131 or PUBH 3431.

PUBH 4231 Health Aspects of Aging
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the aging process from a health education perspective. Students will become acquainted with the process of and problems associated with aging in order to effectively manage this important public health issue. Knowledge and understanding of biological, psychological, and sociological aspects of aging as related to health and wellness will also be addressed.

PUBH 4232 Global Environmental Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides students with an overview of global environmental health challenges in 21st century. Regional and global impact of environmental health hazards will be compared at the systems level. Current topics in global environmental health will target new challenges faced under the changing climate and emerging diseases. International environmental health policies will be compared with local practices.

Prerequisite(s): Sophomore standing and a minimum grade of "C" in PUBH 3431.

PUBH 4233 Topics in Global Epidemiology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will introduce students to the field of epidemiology as applied in a global context. Students will be introduced to basic concepts of epidemiology as well as an overview of topics across the discipline. Special emphasis will be made on health issues in the low and middle income countries, and case studies will be used as examples to illustrate concepts and topics of epidemiology.

Prerequisite(s): Sophomore standing and a minimum grade of "C" in PUBH 3431.

PUBH 4234 International Development in Health (Poverty, Social Justice and Global Health)
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will describe key cultural, social, and economic issues and methods in global health, and thus provide essential background for other core courses. The course is interdisciplinary, emphasizing the fields of anthropology, sociology, public health, global health, and critical global health studies. This course explores aspects of health inequalities and demonstrates how the sources of health inequalities (including globalization, the impact of social, economic, and political systems, the local and global economy, transnational organizations, culture, race, class, gender, and sexuality) are rooted in injustices that create and sustain the conditions that lead to disparities in health status and health care both domestically and globally.

Prerequisite(s): Sophomore standing and a minimum grade of "C" in PUBH 3431.

PUBH 4330 Promotional Strategies for Health Programs
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores the application of social marketing and communication theory to the development of strategies to enhance health education and promotion programs.

Prerequisite(s): A minimum grade of "C" in PUBH 2131.

PUBH 4331 Occupational Health in Public Health Practice
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of the key issues and practices related to workplace hazards in public health practice. Students will be introduced key concepts of environmental epidemiology, toxicology, preparedness, disease management, prevention, and health promotion in occupational settings that both workers and the public are impacted. The course covers primary methods of pollutant exposure assessment, basic understanding of environmental toxicology, health effects of chemical, biological, and physical agents in a variety of facilities from agricultural, to service industry, private sector to healthcare settings. Students will also be introduced to safety regulations in these settings.

PUBH 4332 Environmental Health Practice
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to applied environmental health sciences. Emphasis is placed on hands-on, practical experiences provided by experts/practitioners in the field. This course is expected to prepare students for employment opportunities related to food safety and hygiene; emerging vector-borne diseases; industrial hygiene; and environmental health inspections including restaurants, hotels, and healthcare facilities, recreational environments, and waste management.

PUBH 4333 Public Health Aspects of Vector-borne Diseases: Control and Prevention
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of common vector-borne diseases, discusses public health preventive practices, and introduces students to the concepts of the planning, design, implementation and management of control of vector-borne infectious diseases.

PUBH 4334 Food Safety and Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides a comprehensive overview of food safety and its implications to public health. Specific areas of emphasis include the historical perspectives and current trends pertinent to food safety issues, etiology and assessment of food-borne illness, food contamination and related public health concerns, and strategies for the prevention of food-borne illness. This course will also provide students the opportunity to get certified in ServSafe, a nationally recognized food safety training program. Students will also be required to prepare food under the supervision of the instructor.

PUBH 4611 Hlth Honors Thesis Seminar III
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

In a seminar setting, students will continue writing and revising their thesis. This course provides the student with the opportunity to revise manuscript proposal based upon previous work in Honors Thesis Seminar I and II. Students will be guided through primary data collection and analysis. Students will also complete writing the first draft of the Research Manuscript adhering to current APA style manual.

PUBH 4612 Hlth Honors Thesis Seminar IV
1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.

Students will complete an Honors Research thesis and successfully defend their original research project to their Research Director and Research Committee. Revisions to the Honors thesis will be based upon feedback from the oral defense. To demonstrate proficiency in oral research presentation, students will present their original research at the Honor's Research Symposium and Phi Kappa Phi Research Symposium. Finally, students will be required to submit the final Research Manuscript for publication in a professional format.

PUBH 4798 Internship in Public Health
6-12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course provides the senior level Public Health majors with a practical experience in an appropriate practice setting. Students must complete all course work in the Public Health major prior to enrolling in this course.

PUBH 4890 Directed Individual Study
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

PUBH 5000 Selected Topics in Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Allows the student the opportunity to receive specialized and/or focused instruction in a public health topic not generally offered by the College.

Cross Listing(s): PUBH 5000G.

PUBH 5111 LGBTQ+ Issues in Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to public health issues surrounding LGBTQ+ populations. The course is divided into topic areas that will allow students to become familiar with the terminology, history, health disparities, health inequities, special health needs, and barriers for this population in receiving health care and public health services. The course will also touch on the public health implications that result from the care or lackthereof of these populations. This course will cover topics relating to health services research and public health aspects of LGBTQ+ populations rather than clinical medicine topics.

Cross Listing(s): PUBH 5111G.

PUBH 5520 Introduction to Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to give students a foundation in the core functions of population-based public health (assessment, policy development and assurance). In addition, this course will examine the 10 essential services of public health within these core functions. Defining effective public health practice and providing knowledge about the technical, social, and political parameters related to public health research and practice are goals for this class. Students will gain an understanding of public health as a broad area of work that applies the benefits of current biomedical, environmental, social, and behavioral knowledge in ways that maximize the health status of all populations.

Cross Listing(s): PUBH 5520G.

PUBH 5521 Women and Minority Health Issues
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Exploration of issues which influence the health of women and minority populations, primarily in the United States.

Cross Listing(s): PUBH 5521G.

PUBH 5000G Selected Topics in Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Allows the student the opportunity to receive specialized and/or focused instruction in a public health topic not generally offered by the College. Graduate students will be expected to meet 1-2 additional course objectives and will be required to complete additional assignments for graduate-level assessment.

Cross Listing(s): PUBH 5000.

PUBH 5111G LGBTQ+ Issues in Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course introduces students to public health issues surrounding LGBTQ+ populations. The course is divided into topic areas that will allow students to become familiar with the terminology, history, health disparities, health inequities, special health needs, and barriers for this population in receiving health care and public health services. The course will also touch on the public health implications that result from the care or lack thereof of these populations. This course will cover topics relating to health services research and public health aspects of LGBTQ + populations rather than clinical medicine topics. Graduate students will be required to complete online modules administered by CITI regarding human subject research, draft a research paper that will be reviewed by a peer prior to submission for final grade, draft a course reflection explaining how the class has affected their thought processes regarding public health, complete online quizzes after the completion of each module, complete a final exam, and create a health pamphlet and presentation.

Cross Listing(s): PUBH 5111.

PUBH 5520G Introduction to Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to give students a foundation in the core functions of the population-based public health (assessment, policy development and assurance). In addition, this course will examine the 10 essential services of public health within these core functions. Defining effective public health practice and providing knowledge about the technical, social, and political parameters related to public health research and practice are goals for this class. Students will gain an understanding of public health as a broad area of work that applies the benefits of current biomedical, environmental, social, and behavioral knowledge in ways that maximize the health status of all populations. Graduate students will in addition to all expectations for undergraduates, be required to submit a more thorough paper.

Cross Listing(s): PUBH 5520.

PUBH 5521G Women and Minority Health Issues
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will explore public health issues concerning women and minority populations. Graduate students will apply findings from the photovoice project to develop solutions to a selected public health issue in women and the minority population and conduct a literature search to identify policies and best practices in addressing a selected public health issue that affects women and the minority population.

Cross Listing(s): PUBH 5521.

PUBH 6532 Environmental Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is a survey of specific environmental conditions and factors that contribute to the development of health problems in communities. Health effects, policy issues, intervention strategies and control programs for community environmental health protection are discussed.

PUBH 6533 Epidemiology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an introduction to many important topics in epidemiology for public health practice, including but not limited to the evolution of the discipline, causal concepts in the natural history of disease, critical features of infectious and chronic diseases, elements of public health screening, basic measures used in epidemiology, design of epidemiologic investigations, consideration of random error and systematic bias, calculation and interpretation of confidence intervals and p values, discussion of confounding and interaction, criteria for evaluation of cause and effect relationships and the implications for ethical public health practice. Students are expected to gain a foundation for the application of epidemiologic methods for exploration of the causes and conditions that influence the origin, propagation, mitigation, and prevention of diseases in population health.

PUBH 6534 Health Policy and Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course provides a comprehensive introduction and overview to public health management and administration. The course context is based on managerial decision making and the practical knowledge, tools, processes and strategies required by organizational management. This course overviews the basics of administration, including public health law, human resources management, budgeting and financing, health information management, performance measurement and improvement, ethics, leadership, communication, media relations, and legislative relations in public health; introduced as processes are strategic planning, program development and evaluation, budget preparation, and constituency building for collaboration. Emerging areas of public health policy and management are also discussed as contexts to apply practical knowledge, tools and strategies.

PUBH 6535 Social and Behavioral Sciences and Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to familiarize students with the history and current applications of social and behavioral sciences as they are applied to public health practice and research. It explores social and behavioral science models, theories, and approaches that inform public health, and their philosophical roots. The course also examines social and behavioral determinants of health equity across the ecological spectrum. Emphasis is placed on critical thinking skills to help students synthesize and utilize information in research and practice. An important contribution of this course is the emphasis on recognizing the contributions of social and behavioral science research and practice to enhanced public health.

PUBH 6541 Biostatistics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines statistics in public health and related health sciences, including sampling, probability, basic discrete and continuous distributions, descriptive statistics, hypotheses testing, confidence intervals, categorical data analysis, regression, and correlation. Emphasis will be on the development of critical thinking skills and health data analysis applications with computer software.

PUBH 7090 Selected Topics in Public Health
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Allows the student the opportunity to receive specialized and/or focused instruction in a public health topic not generally offered by the department.

PUBH 7131 Continuous Quality Improvement
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will use Statistical Process Control and Quality Improvement (QI) techniques to address the pressing need for the adoption of quality improvement methods and techniques in public health today. The course also includes an overview of health quality initiatives in general and the progress of QI in public health systems.

PUBH 7132 Scientific Basis of Public Health
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores the scientific basis of 21st century disease processes including a survey of the origins, natural history, factors influencing individual and community risk. Clinical symptoms of diseases impacting humans, both acute and chronic, as well as epidemiologic trends will be also be discussed. Students will obtain an understanding of scientific mechanisms associated with the disease processes with particular focus on using this information in health-related professions and public health decision-making. As such, emphasis will be placed on the understanding and application of proposing community-based solutions designed to break the cycle of disease.

PUBH 7133 One Health

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Our world is becoming increasingly connected due to globalization. As a result, challenges arise that directly affect human, animal, and environmental health. One Health is an integrated approach that focuses on improving communication and collaboration across human, animal, and environmental health sectors. Because emerging infectious diseases, antimicrobial resistance, climate change, and food safety represent a significant threat to health across all populations, the One Health approach is increasingly important to our comprehensive understanding of and response to global health challenges. This course will provide students an introduction to One Health and the skills needed to address issues at the human-animal-environmental interface. More specifically, this course will 1) examine how different disciplines contribute to the practice of One Health, 2) explain the importance of an ecological perspective through case-based applications, and 3) explore the value of epidemiologic principles in solving problems observed in disease detection and response. Through interdisciplinary mechanisms, this course will research team-oriented approaches to complex health problems and promote a framework for the holistic understanding of factors impacting global health and disease of all species.

PUBH 7140 Applied Statistical Methods in Public Health

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course instructs students on the application of quantitative data analysis techniques, and the use of health information for program planning (or intervention development). Students will learn how to use the statistical software package SPSS to answer a research question. Topics include identifying data sources and study designs, analysis of (secondary) data on selected determinants of health status and services used by population, sampling, and power calculations. Emphasis will be placed on the development of critical thinking skills, statistical reasoning, and collaboration. Students will learn to apply the concepts covered in class through a semester-long hands-on analysis of real public health data using statistical software.

PUBH 7530 Integrated Capstone Experience

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course serves as a culminating experience designed to promote refinement of the hard and soft skills necessary for the public health workforce. Throughout the semester, students acquire skills in the integration of basic public health concepts and refine the application of discipline specific knowledge. This course relies on a case-based format that promotes problem solving and critical thinking in the context of real world public health problems.

PUBH 7790 Practicum in Public Health
1-4 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Permits the student to receive practical experience in a selected public health-related setting.

Prerequisite(s): Permission of instructor.

PUBH 7890 Directed Individual Study
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Provides the student with an opportunity to investigate an area of interest under the direction of a faculty mentor.

PUBH 7991 Public Health Capstone Research Project
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Requires the completion of an independent research project in the preferred field requiring the defense of the design, methods, analysis, and interpretation of the data. MPH Students may register for more than 3 credits of PUBH 7991 while working on their Capstone Research Project, but only 3 credits of PUBH 7991 may be applied toward the degree requirements. Excess PUBH 7991 credits cannot be used for electives or required coursework. Extra (greater than 3) credits of PUBH 7991 will simply increase the number of credits the student earns to more than 45.

PUBH 7999 Thesis

1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Requires the completion of an independent research project in the preferred field requiring the defense of the design, methods, analysis and interpretation of the data.

PUBH 8132 Environmental and Occupational Health

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to reinforce basic concepts of environmental and occupational health. Students will be exposed to the current impact of potential environmental and occupational health and safety hazards. Students will also be exposed to current concepts associated with environmental and occupational regulatory standards, assessment protocols, sampling and monitoring techniques, and remediation strategies.

PUBH 8133 Advanced Epidemiology

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth integration of advanced epidemiology concepts designed to reinforce epidemiological principles, as well as build a foundation for epidemiologic research in public health practice. Specific course content includes theory, methods, and applications for epidemiologic studies including random and systematic error, confounding, counterfactuals, causal inference, effect modification, internal and external validity and advanced study design. Emphasis will also be placed on choosing and performing appropriate analytic techniques necessary for biostatistical inference, including estimability and interpretation of effect measures.

PUBH 8134 Health Economics, Policy and the Political Process

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Foundational economic and specific health economic theory, trends, market issues, and applications are presented to include health insurance and payment theory, processes, and applications. Comparison between rational and irrational theory is explored. Evolution of health policy, considering past, current and future major legislation and executive directives, are explored within the political process.

PUBH 8136 Theoretical Perspectives of the Social and Behavioral Sciences in Public Health

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will explore social and behavioral science theories, models, and approaches that inform public health research and practice, as well as their philosophical foundations. With emphasis on an ecological perspective, students will apply relevant theories to understanding community health issues and to developing interventions. The course also examines social and behavioral determinants of health equity across the ecological spectrum. In this course students will gain an enhanced understanding of the contributions of the social and behavioral sciences to Public Health.

PUBH 9130 Sampling Methodology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on study design and sampling methods as well as data analysis of small and large, national and local health surveys and vital statistics in order to gain experience describing data using effective graphical and numerical methods. Students will use statistical software (SAS) to analyze data originating from various national surveys such as the National Crime Victimization Survey, National Survey of Drug Use and Health, National Assessment of Educational Progress, Behavioral Risk Factor Surveillance System, an NHANES. Students will be introduced to sampling design, methods of data collection, nonresponse, writing and evaluating questions and answers in surveys, survey interviews, processing survey data and principles and practices related to ethical research.

Prerequisite(s): A minimum grade of "B" in PUBH 6541 or equivalent.

PUBH 9132 Public Health Perspectives in Community-Based and Translational Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will familiarize students with concepts, issues, and skills relevant to translational research approaches in public health, particularly as it relates to how research is applied across all public health concentrations (epidemiology, behavioral health sciences, management and policy, biostatistics, and environmental health). Emphasis will be placed on utilizing qualitative, quantitative, and mixed methods approaches within an ecological theoretical framework. Students will gain an understanding of the Community-Based Participatory Research (CBPR) approach, as well as issues related to the ethics of community-based research. Students will learn advocacy skills to catalyze community-level intervention and structural change based on research findings.

PUBH 9134 Professionalism and Ethics in Public Health Practice**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores critical issues related to the professional development of public health practitioners and ethical responsibilities necessary to assume leadership roles in the field. Leadership roles include, but are not limited to, recognizing the ecological complexities of factors influencing quality of life for individuals and health status of communities. Students will focus on professional attributes, skills, styles, and strategies required to advance public health goals. In addition, students will examine ethics associated with professionalism, research and public health practice.

PUBH 9135 Public Health, Funding and Grantsmanship**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will review the major sources of funding for public health programs, including public and private sources, and the components of successful funding proposals. Students will gain experience in writing funding proposals and creating program budgets. Students will learn appropriate techniques to planning and writing research grants for large-scale and small-scale community projects. As a part of this process, students will learn effective means of locating and soliciting funding agencies responsible for financing public health activity.

PUBH 9630 Public Health Doctoral Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to give doctoral candidates the opportunity to determine and refine their dissertation research topics including identifying potential dissertation committee members particularly the chair.

PUBH 9790 Doctoral Preceptorship in Public Health**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The doctoral preceptorship/field experience consists of 300 hours of field experience under the joint direction of a public health faculty member and a qualified specialist working in selected areas of public health. A written report specifying activities, products, and outcomes of the experience is required upon completion of the preceptorship.

PUBH 9999 Dissertation**1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The doctoral dissertation is a culminating experience that requires the student to synthesize and integrate knowledge and apply theory and principles learned to an area of public health practice within the area of concentration. A written product must be submitted and must take the form of a manuscript that is suitable for publication in a national-level public health journal, a grant proposal, a technical report, a case analysis, or other similar document. The dissertation must also be presented and successfully defended before the faculty.

RADS Radiologic Sciences

RADS 6000 Foundations of Radiologic Sciences**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an overview of Radiologic Science modalities. It will emphasize the inter-professional relationships among the disciplines of Radiologic Sciences.

RADS 6005 Emerging Trends in Radiologic Sciences**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines emerging trends in Radiologic Sciences. Topics include current issues related to technological advances, radiation protection and professional practice issues.

RADS 6010 Principles of Accreditation Concepts**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of accreditation with emphasis on issues relevant to medical and educational institutions. Topics include institutional and programmatic accreditation pertinent to Radiologic Sciences.

RADS 6020 Fundamental Administration Topics in Radiologic Sciences**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will delve into the administrative requirements for Radiologic and imaging administrators. Content includes management theories, legislative requirements pertaining to the healthcare environment and leadership concepts.

RADS 6030 Picture Archiving and Communication Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Topics for this course include a study of the process involved in capturing, archiving, processing and displaying of medical images and related information.

RADS 6040 Global Health Issues**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to global health. Includes the evaluation of case studies illustrating how global health issues are best understood from multiple perspectives. Topics may include global health ethics, global health policies, gender and health and health and human rights.

READ Reading

READ 0099A Academic Reading**4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.****READ 0099B Academic Reading****4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.****READ 0099C Academic Reading****4 Credit Hours. 4 Lecture Hours. 0 Lab Hours.**

READ 2230 Cognition and Language**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines cognition and language and the relationships between the two systems. The course presents language as a special form of thinking and communication and as a complex, living, changing system. The course explores relevant theories of cognitive and language development and traces development from infancy to adolescence. The course emphasizes practices that promote specific language and cognitive competencies and explores their utilization in various contents and with learners representing language diversity.

READ 3231 Early Language and Literacy Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the philosophical foundations and language and literacy of the environments that support learning. Candidates explore the diverse experiences of young children and the impact of those experiences on literacy learning. The course spans birth through age eight.

READ 3330 Content Literacy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Addresses the development of reading and writing skills needed by students in grades 4-12. Instructional strategies focus on application of literacy skills in content subjects.

READ 4090 Selected Topics in Reading**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Designed to provide specialized course work to meet the needs of students. Attention will be directed toward a wide range of topics as they relate to reading education. Repeatable up to 6 credit hours.

READ 4131 The Teaching of Reading**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides an overview of the basic program of reading instruction for the developmentally average child with special emphasis on adjustments and adaptations for students with special needs. Considers the stages of a child's reading development, as well as teaching and assessment techniques. Includes activities that foster the development of reading strategies, integration of the use of technology in literacy instruction, familiarity with current reading resources, and familiarity with approaches and models of instruction.

Prerequisite(s): A minimum grade of "C" in READ 2230.

READ 4232 New Literacies and Technology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of the intersections between new technology-based literacies and school-based literacies. We will also examine how recent innovations in technology education have affected our definitions of literacy, both in- and outside of school, and discuss both the positive and negative effects of "new literacies" on educational contexts. Students will be expected to actively participate in this learning community and create technology-based lessons that they can use as professional literacy educators.

Prerequisite(s): A minimum grade of "C" in READ 2230.

READ 4233 Literacy Assessment and Instruction**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines literacy difficulties encountered by children in the classroom. It emphasizes a diagnostic approach to instruction which utilizes multiple indicators of literacy performance. Using literacy data from individual cases, students practice problem solving strategies as they relate to classroom situations. Students assess literacy performance, analyze data, plan instruction, and report findings.

Prerequisite(s): ELEM 3233 or READ 4131.

READ 6030A Directed Study in Reading**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.****READ 6131 Literacy Instruction and Diagnosis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide a foundation of multiple approaches to reading instruction, strategies for teaching readers at the elementary level along with learning assessment techniques for analyzing P-5 student literacy data. Candidates learn how to plan instruction based on student assessment results and research-based literacy practices. Included are ways to embed technology into literacy instruction for diverse learners.

READ 6330 Literacy in the Content Areas for Elementary Learners**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the development of reading and literacy skills needed by students in grades P-5. Instructional strategies are presented and designed to help students transfer literacy skills into content areas.

READ 7090 Selected Topics in Reading**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Topics in Reading is designed to serve dual purposes. 1) It allows the department to respond to specific needs of area schools and 2) it allows the department to respond to current issues and trends in reading education with topical courses.

Prerequisite(s): Permission of instructor.

READ 7131 Approaches to Literacy Instruction**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of the major theories underlying reading and the teaching of reading. It fosters the development of strategic readers, an understanding of current reading research, integration of technology into literacy education, and familiarity with approaches to and models of instruction. The course considers the stages of an individual's reading development, as well as effective teaching strategies, assessment techniques, and organization for instruction.

READ 7132 Linking Literacy Assessment with Instruction**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the diagnosis and remediation of reading difficulties in P-16 context. Emphasis include understanding and applying a variety of assessment techniques and making informed decisions based on literacy assessment data. Field experience required.

READ 7230 Issues and Trends in Literacy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This class is designed to investigate the current issues and trends in reading instruction across levels P-16. Emphasis will be on the critical analysis of research literature that is related to the current practices and trends in the teaching of reading.

Prerequisite(s): A minimum grade of "C" in READ 7131.

READ 7234 The Role of the Literacy Leader in Today's Schools**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course describes the role of the literacy coach in today's schools from pre-K to high school. This course is designed to assist coaches in providing leadership for a school's entire reading/literacy program by providing professional development for teachers and acting as a liaison between instructional personnel and administrators.

Prerequisite(s): A minimum grade of "C" in READ 7131.

READ 7330 Literacy in the Content Areas**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course addresses the interdisciplinary development of reading skills needed by students in grades P-16. Instructional strategies and methods are presented and designed to help students transfer literacy skills into content areas.

READ 7431 Digital Literacies in the 21st Century
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of the intersections between new technology-based literacies and school-based literacies. We will also examine how recent innovations in technology education have affected our definitions of literacy, both in and outside of school, and discuss both the positive and negative effects of digital literacies on educational contexts. Students will be expected to actively participate in this learning community and create technology-based lessons that they can use as professional literacy educators.

Prerequisite(s): A minimum grade of "C" in READ 7131.

READ 7432 Teaching Literacy with English Learners
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the language, reading, and writing instructional needs of English language learners (emergent bilinguals). This includes exploring second language acquisition, the historical contexts surrounding the education of language minority students, and the ways in which mainstream classroom teachers can actively engage English learners in academic literacy activities. The course is grounded in sociocultural theory and builds upon P-16 students' first language as a resource. Field experience required.

READ 7433 Teaching Writers Through Reading
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The course explores the connections between the teaching of reading and writing. It helps candidates understand literacy related research for effective the teaching and assessing writing for P-16 students. Candidates will have opportunities to practice strategies to make themselves more confident readers and writers while learning to become effective teachers of readers and writers.

READ 7630 Teaching the Literature of Social Reflection
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course defines literature in broad terms and literature will be represented through fiction, poetry, essay, art, music and film. The selections are all based on the following questions: How does one live a life? What kind of life? And for what purpose? This course is about the stories told through any media about the world around us that lead us to broad social reflection. We feel that literature/art has the capacity to change our lives and our perspectives on the lives of others.

READ 8130 Linking Literacy Assessment with Instruction II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Involves a continued in-depth study of the administration and interpretation of literacy and literacy-related diagnostic strategies and of corrective and remedial strategies appropriate to the needs determined through diagnosis. Focus is on individuals experiencing substantial literacy difficulties in P-12 settings. This course includes a required field-based component.

Prerequisite(s): READ 7132.

READ 8230 Organization and Supervision of Reading Programs
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study is made of a balanced reading program and the relationship of the reading program to the total curriculum.

Prerequisite(s): A minimum grade of "C" in READ 7131.

READ 8430 Current Research in Trends and Issues in Literacy Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides the opportunity to explore and examine current research in trends and issues in literacy development from different perspectives. Candidates will develop the ability to evaluate literacy research, reflect upon best practices in literacy, and apply the knowledge to school setting. Candidates will identify and synthesize the literature related to a literacy topic of interest. They will write a literature review that demonstrates their understanding of the topic and the application in their school setting. Must be taken within the first 9 hours of the program. Admission to the Ed.S. in Reading program.

READ 8431 Literacy Leaders in Today's Schools
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores the role of the literacy teacher as a leader in today's schools from PreK to High School. Teachers will have the opportunity to uncover their potential as future literacy leaders by studying the different aspects and characteristics of literacy leadership that will assist them in their advocacy for colleagues, students, and communities. This course will equip teachers with resources and knowledge to provide professional development that promotes collaborative work with colleagues.

Prerequisite(s): A minimum grade of "C" in READ 8430.

READ 8530 Critical Issues in Literacy Education with Diverse Populations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course explores the contemporary critical approaches to literacy education research in a diverse society and globalizing world. This course will examine literacy and its impact on linguistically, socially, and culturally diverse students from a sociocultural and critical perspective.

READ 8630 Critical Readings in Reading/Literacy Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An advanced seminar for M.Ed, Ed.S. and Ed.D. students offering an in-depth study of a specific topic in reading/literacy education.

Prerequisite(s): Admission to M.Ed., Ed.S., or Ed.D. program.

READ 8734 Capstone in Literacy Instruction
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This is a capstone experience where candidates demonstrate the skills, knowledge, and dispositions necessary to serve as classroom, school, or district literacy experts in diverse settings focusing on P-16 students. A total of 60 hours in the field is required. Adaptations may apply.

Prerequisite(s): A minimum grade of "C" in READ 7131, READ 7132, READ 7330, and Permission of Advisor.

READ 8839 Field Project in Reading
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to enable students to design, organize, and report an instructional improvement research project implemented in reading.

Prerequisite(s): A minimum grade of "C" in EDUR 8434, EDUR 8131 and EDUR 8231 and an Approved Ed S Research Proposal.

READ 8890 Directed Individual Study
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

The Directed Individual Study provides an opportunity for a student to pursue an area of interest not covered by any existing courses in a guided, independent format. The student is responsible for defining an area of study, course objectives, activities and assessment procedures and identifying a graduate faculty member in the Reading Program who will supervise the study.

Prerequisite(s): Permission of Instructor.

RECR Recreation

RECR 1530 Introduction to Recreation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Historical examination of the leisure services profession; sociological, economic, psychological, political, and technological considerations for the delivery of leisure and recreation services in contemporary society.

RECR 2131 Introduction to Recreational Therapy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will expose students to the historical and philosophical underpinnings of the recreational therapy profession. Additionally, significant class time will be spent exploring a variety of counseling techniques, leadership styles, and recreational therapy settings.

RECR 2136 Disability, Health, and Rehabilitation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide students with the opportunity to explore multiple disability types and their respective settings, societal and personal attitudes regarding disabilities, inclusion, and adaptive and assistive technologies.

RECR 2530 Leadership and Programming in Leisure Services**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides a basic understanding of the practice and theory of recreation program development and leadership in various service settings. Covers the process of recreation programming, principles of leadership, meeting the needs of a diversity of participants, and the implementation of programs and activities.

RECR 3135 Program Planning in Recreational Therapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will address issues related to the development of comprehensive and individual program plans. Students will have the opportunity to develop specific program plans, complete activity analyses, and engage with clients in the recreational therapy facility of their choosing.

RECR 3137 Facilitating Experiences in Recreational Therapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will address topics including experiential learning and debriefing, with specific focus placed on how to debrief therapeutic activities to address client improvement. Significant class time will be spent engaging in activities designed to help students master class concepts. Additionally, class time will be spent at the Georgia Southern Challenge Course.

RECR 3215 Youth Sports Programming & Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores historical and contemporary issues associated with the administration of youth sports programs. Students will gain an understanding of planning and administrative strategies designed to deliver youth sport activities within public, private, and non-profit recreation settings.

RECR 3230 Adventure Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to recreational, educational, developmental, and therapeutic adventure programming. Emphasis is placed on theoretical foundations, outdoor skill development, trip planning & logistics, leadership, risk management, and effective experiential teaching methods. A three day field experience is required.

RECR 3235 Outdoor Recreation Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to the history, philosophy, policies, and laws associated with natural and cultural resource management, and to ecological and heritage preservation concepts as applied in the field of outdoor recreation management.

RECR 3236 Planning Recreation Areas and Facilities**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Basic understanding of the principles and procedures for planning, designing, and operating recreation and park areas and facilities.

Prerequisite(s): A minimum grade of "C" in RECR 1530 and RECR 2530.

RECR 3335 Tourism Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Fundamental understanding of the dynamics and components to tourism and the tourism industry from the historical and applied perspectives.

RECR 3336 Heritage Tourism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the managerial issues and promotional techniques required for the effective operation of heritage-based tourism and leisure service entities.

RECR 3337 International Tourism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces the student to the field of international tourism from the social, scientific and applied perspectives, including such concepts as: tourists motivation, foreign exchange, migration, deviant practices associated with international tourism, and the phenomena of tourist-host relations.

RECR 3338 Resort & Commercial Recreation Operations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students with an overview of resort and commercial recreation operations with an emphasis on service management and the provision of quality leisure experiences. Economic implications and current events affecting the industry will also be explored.

RECR 3430 Conference and Event Planning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of principles and practices specific to meetings and events, such as conferences, conventions, festivals, and workshops. Principles and practices related to site selection, transportation, food and beverage, exhibits, special program features, social functions, and evaluations will be addressed.

RECR 3530 Attraction and Tourism Management Field School**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Utilizes an intensive one-week field school methodology and provides students with an exposure to, and understanding of, the various attractions and infrastructure that comprise a working tourism system. Students will explore and understand a variety of managerial issues pertinent to the operation of specific attractions within the tourism system.

Prerequisite(s): A minimum grade of "C" in RECR 3335 or Permission of instructor available for qualified non-majors.

RECR 4130 Assessment in Recreational Therapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will focus on the importance and process of conducting individual assessments within recreational therapy. Class time will be spent understanding the foundational principles of assessments, and students will practice implementing and developing standardized and non-standardized assessment tools.

Prerequisite(s): A minimum grade of "C" in RECR 2131.

RECR 4135 Intervention Techniques in Recreational Therapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide students with the ability to implement various intervention techniques in recreational therapy. Students will demonstrate the ability to conduct activity and task analyses along with facilitating intervention techniques for a variety of populations.

RECR 4136 Documentation and Evaluation in Recreational Therapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will expose students to multiple means of documentation, evaluation of client progress and programs, utilization of assessment results, and the importance of evidence-based practice.

Prerequisite(s): Minimum grade of "C" in RECR 2131 and RECR 2136 or Permission of Instructor.

RECR 4230 Environmental Education and Interpretation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students with foundational knowledge and skills in the areas of environmental education and interpretation, as applied in natural and cultural resource management settings. Strategies for promoting quality visitor experiences and protecting park resources will be addressed.

RECR 4235 Healthcare Administration in Recreational Therapy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will focus on issues related to the administration and management of recreational therapy services in a variety of settings. Topics covered will include: managed care, reimbursement, ethical decision making, standards of practice, supervision of volunteers and interns, and related legislation.

Prerequisite(s): Minimum grade of "C" in RECR 2131 and RECR 2136 or Permission of Instructor.

RECR 4430 Financial and Legal Dimensions of Recreation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A basic understanding of techniques of financing and budgeting, and a knowledge of legal, legislative, and risk management concepts as they relate to recreation service delivery.

Prerequisite(s): A minimum grade of "C" in RECR 1530.**RECR 4435 Managing Recreation Organizations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An understanding of organizational behavior, human resources management, ethical principles, and professional issues as they impact the delivery of recreation services.

Prerequisite(s): A minimum grade of "C" in RECR 1530.**RECR 4530 Marketing Recreation Services****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An understanding of marketing techniques and strategies as they apply to the delivery of recreation services, including knowledge of public relations and promotion strategies.

Prerequisite(s): A minimum grade of "C" in RECR 1530.**RECR 4530S Marketing Recreation Services****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An understanding of marketing techniques and strategies as they apply to the delivery of recreation services, including knowledge of public relations and promotion strategies.

Prerequisite(s): A minimum grade of "C" in RECR 1530 and RECR 2530.**RECR 4536 Evaluation and Research****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A basic understanding of research and evaluation methods, design, analysis, interpretation, and report writing; and the ability to conduct, present, evaluate, and utilize research on recreation.

Prerequisite(s): A minimum grade of "C" in RECR 1530 and RECR 2530.**RECR 4630 Professional Development in Recreation****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Prepares students for the recreation internship program and subsequent professional employment. Topics include professionalism in recreation and leisure services, development of internship goals, identification of potential internship sites, preparation of cover letters and resumes, interviewing techniques, and selection of the internship site. Students will have the opportunity to interact with recent GSU graduates and professionals within the recreation and leisure services profession.

Prerequisite(s): A minimum grade of "C" in RECR 1530 and RECR 2530.**RECR 4730 Professional Advancement in Recreational Therapy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to prepare recreational therapy students for the transition from education to practice. In-class discussions include current trends and issues in the field, preparation for the NCTRC certification exam, and researching and preparing for a clinical education experience meeting NCTRC requirements.

Prerequisite(s): A minimum grade of "C" and prior or concurrent enrollment in RECR 2131 and RECR 3135 or permission of instructor.**RECR 4735 Fieldwork in Recreational Therapy****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide students with the opportunity to engage with and observe Recreational Therapists in real-world settings. Class time will be dedicated to preparation for field work; however, the majority of the course will require fieldwork under the supervision of a Certified Therapeutic Recreation Specialist.

Prerequisite(s): Minimum grade of "C" in RECR 3137 and RECR 4130 or Permission of Instructor.**RECR 4790 Internship****12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A 12-15 week supervised work experience related to student's emphasis area which allows application of classroom knowledge and theory to practice.

Prerequisite(s): Total Institution GPA of 2.0 or better, completion of all university core curriculum and major degree requirements, 200 approved experience hours, and permission of Recreation emphasis area faculty.**RECR 4830 Selected Topics in Recreation****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides the student with the opportunity to study contemporary topics and issues relevant to the recreation and leisure profession in an individual setting. The student will be able to work with faculty on a rigorous, closely directed research, capstone project, or practicum experience.

RECR 6030 Selected Topics in Recreation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides the student with the opportunity to study contemporary topics and issues relevant to recreation and sport administration.

RECR 6230 Financial Management in Recreation Organizations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides in-depth understanding of budgeting and financial management within recreation organizations; students will apply intermediate and advanced computer skills using contemporary software applications common in recreation settings.

RECR 7230 Research Methods in Recreation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will develop an operational understanding of research design, program evaluation, and data analysis as applied in recreation and leisure service organizations. The goal of the course is to produce informed consumers of research-based information and to provide students the opportunity to prepare for advanced graduate study.

RECR 7235 Issues and Trends in Recreation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course investigates current and anticipated issues in the recreation field with an emphasis on problem-solving, decision making, and policy formation in administrative settings.

RECR 7236 History and Philosophy of Recreation and Leisure**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A critical inquiry into the history and philosophy of recreation and leisure with an emphasis on theoretical foundations applicable in contemporary society.

RECR 7237 Recreation Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An overview of recreation management with an emphasis on organizational behavior, human resource management, and legal principles applicable in recreation and leisure service organizations.

RECR 7790 Internship**9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This nine credit hour course provides the opportunity for a full-time, 600 hour professional work experience in an approved recreation setting. Requires completion of a capstone project with dissemination of outcomes in written and verbal formats.

RECR 7830 Directed Individual Study**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides the opportunity for students to pursue independent research or participate in faculty sponsored projects.

RECR 7999 Thesis**6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students conduct an independent research project on a topic applicable to recreation and leisure services; requires development of a research proposal, data collection and analysis, and dissemination of results in written and verbal formats.

RELS Religious Studies

RELS 2100 World Religions

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
Survey of the major religious traditions of the world.

RELS 2130 Introduction to Religious Studies

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
Introduction to definitions, perspectives, and methods used in religious studies, as well as, to the varieties of religious issues and expressions.

RELS 3030 Selected Topics

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
Selected Topics in Religious Studies.

RELS 3134 Introduction to Asian Religions

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course is an introduction to the religious traditions of Asia. Traditions covered include Hinduism, Buddhism, Jainism, Sikhism, Islam, Daoism, and Confucianism.

RELS 3135 Introduction to Hinduism

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course is an in-depth exploration of the Hindu traditions, and the beliefs, rituals, and cultural expressions of those who practice them.

RELS 3136 Introduction to Islam

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course is an in-depth exploration of Islam around the world, and the beliefs, rituals, and cultural expressions of those who practice it.

RELS 3137 Introduction to Christianity

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course will introduce students to the academic study of diverse social, intellectual, and political movements that have been classified as Christian.

RELS 3138 Introduction to Buddhism

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course is an introduction to the wide range of Asian Buddhist ideas and practices, including Theravada, Mahayana, and Tantric Buddhisms and Buddhism's interaction with indigenous traditions.

RELS 3139 History of Religion in the U.S.

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
A survey and analysis of the major religious patterns in the United States with special attention given to belief systems, institutional forms, social composition, and historical development.
Cross Listing(s): HIST 3139.

RELS 3233 The Early Church

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
How did Christianity turn from an illegal, persecuted cult into the official religion of the Roman empire? The course will focus on the first five hundred years of the Christian church: its development, doctrine, and especially its relationship with the ancient civilizations of the Mediterranean world (Greece, Rome, and the Near East).
Cross Listing(s): HIST 3233.

RELS 3234 Asian Religious Philosophy

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course is a study of Asian religious philosophy based on reading and analysis of primary texts (in translation). Through close investigation of philosophical texts, the course will explore ideas about ethics, truth, and the nature of reality.

RELS 3235 Religion, Sex, and Gender

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course explores the complex and varied constructions of gender and sex in different religious texts, practices, and institutions. While an essential part of the course will take the form of lectures, a major component will consist of discussion and co-inquiry.

RELS 3238 The Hebrew Prophets

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course will focus on a detailed and careful reading of the text of the book of Genesis, with two primary aims in mind: 1) an understanding of the narratives, within the historical context and more importantly the theological nexus of the narrative; and 2) the implications and applications for contemporary society and the issues we face.

RELS 3250 The Muslim World to Tamerlane

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
A study of the rise of Islam in the seventh century and of the various Muslim societies that arose prior to the fifteenth century from the Iberian Peninsula to South Asia.
Cross Listing(s): HIST 3250, INTS 3250.

RELS 3251 The Muslim World Since Genghis Khan

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
A study of the global reach of Islam since the thirteenth century. The focus is on how Muslim societies have dealt with the precipitous decline in their well-being since their pinnacle of influence in the seventeenth century.
Cross Listing(s): HIST 3251, INTS 3251.

RELS 3330 Introduction to the Hebrew Bible

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course is designed to introduce the student to the fundamental ideas, themes, and trajectories in the Hebrew Bible. We shall examine the various historical, cultural, and religious contexts of the Hebrew Bible as far as this is possible, and seek to broaden our understanding of the various claims of the text, and in turn to stimulate questions and reflections on contemporary relevance. Close attention will be paid to the reading and interpretation of the text.

RELS 3334 Christian Europe 450-1750

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
The major theme of this course is the development of various Christian traditions in Europe from the early middle ages to the Enlightenment. Topics include the spread of Christianity, formation of distinct Christian churches, and the many wars fought in the name of Christianity.
Cross Listing(s): HIST 3334.

RELS 3335 Introduction to the New Testament

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course introduces the fundamental ideas, themes, and trajectories represented in New Testament texts. We shall examine the historical, cultural, and religious contexts of the New Testament and broaden our understanding of the various claims of its texts. We shall also question and reflect upon the New Testament's contemporary relevance. Close attention will be paid to the texts.

RELS 3340 The History and Archaeology of the Biblical World

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course investigates the ancient worlds from which the Hebrew Bible and New Testament emerged. To do so, our class attends principally to the material culture that has been unearthed through archaeological excavations carried out in what is today the Middle East from the eras during which the Bible was written down (ca. 1200 BCE – 200 CE). While our class will engage a number of biblical texts, the primary intent of this course is to better understand the historical and cultural contexts out of which the biblical writings arose by focusing on specific archaeological and historical topics throughout the semester, such as (but not limited to) ritual, ethnicity, family and society, gender, and empire.

RELS 3416 Religion and Irish Identity

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
The course examines the relationship between religion and Irish identity within the nation-state of Ireland as well as in diverse forms of transnational Irishness.

RELS 3430 Religion and Politics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will examine the production of religion and politics from a global perspective. Students will learn about political theories of religion as well as consider the intersection of religion and politics in different national and international contexts.

RELS 3435 Religion, Sports, and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores the intersection of religion and sports in society using a range of case studies and interdisciplinary approaches. Students will explore issues such as whether or not sports function like religions; whether religion should have a place in sports, and sports a place in religion; what happens when religion and sports come into conflict; and what sort of religious and ethical dilemmas can arise in sports.

RELS 3440 Religion and Law**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines systems of law within different religious traditions as well as the relationship between religion and civil law in diverse global contexts.

RELS 4336 Science and Religion**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the interactions between science and religion from ancient times to the present.

Cross Listing(s): HIST 4336.**RELS 4890 Religious Studies Capstone****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will complete a capstone project in Religious Studies.

Prerequisite(s): Must have taken at least two classes in the major.**RELS 5030 Special Topics in Religious Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Special topics in Religious Studies. May be repeated for additional credit when topics change.

Cross Listing(s): RELS 5030G.**RELS 5332 The Age of Reformations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the breakup of western European Christian unity in the sixteenth and seventeenth centuries, with a particular focus on the Continental (Lutheran, Calvinist, and Radical) denominations and the social, political, and economic consequences for all Europeans.

Cross Listing(s): RELS 5332G, HIST 5332, HIST 5332G.**RELS 5030G Special Topics in Religious Studies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Special topics in Religious Studies. May be repeated for additional credit when topics change. Graduate Students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): RELS 5030.**RELS 5332G The Age of Reformations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Focuses on the breakup of western European Christian unity in the sixteenth and seventeenth centuries, with a particular focus on the Continental (Lutheran, Calvinist, and Radical) denominations and the social, political, and economic consequences for all Europeans.

Cross Listing(s): HIST 5332, HIST 5332G, RELS 5332.

SCED Secondary Education

SCED 3121 Planning and Instruction for Secondary Educators**2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

This course is designed to assist teacher candidates in understanding curriculum design, instructional planning and teaching practices in the secondary school and in reflecting on best practices in secondary instruction. Emphasis is placed on planning, presentation, and assessment skills, as well as developing strategies for working with the diverse student populations present in schools. Candidates will design lesson plans focusing on the selection of appropriate learning objectives related to specific knowledge, skills, and dispositions in one's teaching field; selection of interactive learning activities and resources—including multiple technologies; and the use of appropriate assessments of student learning.

Prerequisite(s): Admission to the Teacher Education Program.**Corequisite(s):** SCED 3721.**SCED 3237 Methods of Teaching Science in Secondary Schools****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is designed to assist students in understanding the purpose of science in the secondary school curriculum and becoming familiar with the trends in science instruction. Skills are developed in using classroom laboratory and field trip experiences in planning and evaluating science instruction. Major emphasis is placed on planning and presentation skills and on developing strategies to facilitate working with the diverse student populations present in the public schools.

Prerequisite(s): A minimum grade of "C" in SCED 4137 and SCED 4732.**Corequisite(s):** SCED 4231 and SCED 4739.**SCED 3337 Methods of Teaching Language Arts in Secondary Schools****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of methods and materials appropriate in teaching composition, literature, and oral expression in the secondary school English program. Emphasis will be placed on the writing process, teaching grammar through writing, and literature for grades 6-12.

Prerequisite(s): A minimum grade of "C" in SCED 4137 and SCED 4732.**Corequisite(s):** SCED 4231 and SCED 4739.**SCED 3437 Methods of Teaching Social Science in Secondary Schools****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

A study of the social sciences in the secondary schools with emphasis on curriculum issues, planning social science instruction, methods and materials appropriate for older adolescents and topical issues in teaching social sciences.

Prerequisite(s): A minimum grade of "C" in SCED 4137 and SCED 4732.**Corequisite(s):** SCED 4231 and SCED 4739.**SCED 3537 Methods of Teaching Mathematics in Secondary School****3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

A study of teaching methods and materials, curriculum, and trends in secondary school mathematics.

Prerequisite(s): A minimum grade of "C" in SCED 4732.**Corequisite(s):** SCED 4231 and SCED 4739.**SCED 3721 Secondary School Practicum I****2 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

A supervised introductory teaching experience in grades 6-12. Candidates will observe, assist, plan, and teach in the specific teaching field and grade level for which they are being certified. Emphasis is placed on observation and participation in various aspects of classroom life and the unique needs of adolescent learners.

Prerequisite(s): Admission to the Teacher Education Program.**Corequisite(s):** SCED 3121.

SCED 4137 Instructional Assessment for Diverse Learners
3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.

The goal for this course is for teacher candidates to learn specific teaching strategies and approaches to curriculum and assessment that meet the needs of diverse learners. Candidates will learn how to design learning opportunities and assessments that are aligned with the strengths and needs of students with diverse ability levels as well as culturally and linguistically diverse students. Candidates will also learn how to use assessment data to inform instruction.

Prerequisite(s): A minimum grade of "C" in SCED 3121 and SCED 3721.

Corequisite(s): SCED 4732.

SCED 4231 Content Specific Pedagogy for Secondary Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Teaching and evaluation of content-specific academic language through writing strategies and interdisciplinary instruction. Special attention will be given to engaging and enhancing the writing needs of diverse adolescent learners, as well as evaluating the effectiveness of instruction.

Prerequisite(s): A minimum grade of "C" in SCED 4137 and SCED 4732.

Corequisite(s): SCED 4739.

SCED 4632 Student Teaching Seminar in Secondary Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This seminar course provides a forum for discussion and examination of critical issues related to students' teaching responsibilities and transition to first-year teaching in Grades 6 – 12 classrooms.

Prerequisite(s): Completion of the teaching field and professional education courses and admission to the Student Teaching Program.

Corequisite(s): SCED 5799.

SCED 4732 Secondary School Practicum II
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A supervised teaching experience in grades 6-12. Candidates will observe, assist, plan, and teach in the specific teaching field and grade level for which they are being certified. In collaboration with the classroom teacher, candidates will plan and teach lessons that specifically address academic language, content, and pedagogy in their assigned content area.

Prerequisite(s): A minimum grade of "C" in SCED 3121 and SCED 3721.

Corequisite(s): SCED 4137.

SCED 4739 Student Teaching Residency I
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This supervised practicum is a field-based teaching experience in a secondary school classroom. The goals for this course are for teacher candidates to (1) apply teaching and assessment strategies to support diverse learners in various classroom settings (2) meaningfully and effectively utilize instructional technology to support student learning, and (3) thoughtfully reflect on instructional practices to successfully impact student learning.

Prerequisite(s): A minimum grade of "C" in SCED 4137 and SCED 4732.

Corequisite(s): SCED 4231 and content course.

SCED 5799 Student Teaching in Secondary Education
9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A period of guided teaching during which the candidate, under the direction of a clinical supervisor, takes increasing responsibility for leading the school experiences of a given group of learners over a period of consecutive weeks and engages more or less directly in many of the activities which constitute the wide range of a teacher's assigned responsibilities.

Prerequisite(s): Admission to the Student Teaching Program.

Cross Listing(s): SCED 5799G.

SCED 5100G Understng Rdr & Rdg Process
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Emphases include major theories underlying reading and the teaching of reading, current topics and issues in the literacy field, variety of teaching strategies, and an introduction to past and present literacy scholars and their contributions to the teaching of reading. This is the first of three courses that will lead to a Reading Endorsement Certificate.

SCED 5450G Economic Education for Tchrs
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The study of basic microeconomic and macroeconomic concepts, methodology, resourced for incorporating economics in the school curriculum, and teaching material development at the appropriate grade levels.

SCED 5799G Student Teaching in Secondary Education
9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A period of guided teaching during which the candidate, under the direction of a clinical supervisor, takes increasing responsibility for leading the school experiences of a given group of learners over a period of consecutive weeks and engages more or less directly in many of the activities which constitute the wide range of a teacher's assigned responsibilities.

Corequisite(s): MSED 7635.

Cross Listing(s): SCED 5799.

SCED 6340 Content Methods in Engl Educ
3 Credit Hours. 0 Lecture Hours. 1-12 Lab Hours.

Course prepares candidates to teach English language arts at the secondary level to diverse learners using best practices. A field experience is required.

SCED 6350 Content Methods in Math Educ
3 Credit Hours. 3 Lecture Hours. 1-12 Lab Hours.

Course prepares candidates to teach mathematics at the secondary level to diverse learners using best practices. A field experience is required.

SCED 6360 Content Methods for Hist Educ
3 Credit Hours. 3 Lecture Hours. 1-12 Lab Hours.

Course prepares candidates to teach history at the secondary level to diverse learners using best practices. A field experience is required.

SCED 6370 Content Methods in Sci Educ
3 Credit Hours. 3 Lecture Hours. 1-12 Lab Hours.

Course prepares candidates to teach science at the secondary level to diverse learners using best practices. A field experience is required.

SCED 6738 Supervised Practicum in Secondary Education
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A supervised teaching experience in grades 6-12. Candidates will plan and teach in one's specific teaching field(s) and grade levels for which they are being certified. Emphasis is placed on instructional planning, effective instruction, classroom management, and student evaluation.

Prerequisite(s): A minimum grade of "C" in MSED 6120 and admission to Teacher Education Program.

Corequisite(s): MSED 6131.

SCED 6739 M.A.T. Internship I: Secondary
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This supervised practicum course is designed for M.A.T. candidates who are employed full time in an approved teaching position. It provides a supervised teaching experience in an appropriate grade level and school setting for the candidate's teaching field. Candidates will plan and teach in the specific teaching field(s) and grade levels for which one is being certified. Emphasis is placed on instructional planning, classroom management, and student evaluation.

Prerequisite(s): A minimum grade of "C" in MSED 6120; admission to Teacher Education Program.

Corequisite(s): MSED 6131; candidates must hold a valid non-renewable teaching certificate and be currently employed in grades 6-12 and teaching in the teaching field(s) for which one is being certified.

SCED 6799 Supervised Internship: Secondary
3-12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A fifteen-week supervised teaching experience in the specific teaching field and grade levels for which one is being certified. Candidates seeking initial certification in one of the secondary education teaching fields will complete the internship in order to be eligible for initial certification.

Prerequisite(s): A minimum grade of "C" in MSED 6131; candidates must hold a valid non-renewable teaching certificate and be currently employed in grades 6-12 and teaching in the teaching field(s) for which one is being certified.

SEAC Valdosta State Franchise

SEAC 5050 Assistive Technology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

SEAC 5140 Collaborative Roles in Educ
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

SEAC 5500 Char of Student w Low Inci Dis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

SEAC 5510 Curric Stdnts Low Inci Disa
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

SEAC 5520 Assessment for Students with Low Incidence Disabilities
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

SEAC 5530 Systematic Instruction-Low Incidence Disabilities
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

SEAC 6010 Int Instr: Individ Ed Program
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 The theoretical and practical basis of curriculum design for individuals with disabilities throughout the life cycle. Individualized Education Plan development and program planning that incorporates student access to the general education curriculum are components of this course.

SEGC Valdosta State Franchise

SEGC 5140 Collaborative Roles in Education
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

SEGC 6000 Integration of Instruction and Management
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.
 Identification and implementation of management and instructional strategies that have demonstrated effectiveness. Through applied projects focused on K-12 student learning, students will demonstrate the ability to evaluate intervention efficacy.

SEGC 6020 Intgr Inst: Assessment & Learn
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Formal assessment, processes, and classroom assessments techniques unique to evaluating the developmental level and potential achievement of children with exceptionalities. Emphasis is on the use of these tools in planning and selecting curricular programs and activities.

SEGC 6040 Tech Sup Plan Youth with Disab
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 An introduction to computers and related hardware and software as they related to the individualized education program and needs of individuals who require intermittent or limited support. The course emphasizes classroom applications and technology in support of the needs of students with disabilities.

SEGC 6050 Language & L D
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Study of the foundation and sequence of language and communication development, characteristics of language and communication disorders and differences, and selected evidence-based classroom intervention strategies.

SEGC 6100 Read & Apply Res in Spec ED
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Culminating course experience in which students will select and post evidence from class assignments and write personal reflections in LiveText portfolio describing how the assignments have contributed to their development as teachers.

SERD GOML Valdosta

SERD 6030 Teaching Children to Read
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 An introduction to methods of teaching children to read, with an emphasis on balanced reading instruction. Major topics include building a literacy foundation, oral language development, phonemic awareness, phonics, fluency, vocabulary, comprehension, and guided reading instruction.

SERD 6040 Read Diag, Rem & Mgnt EE Reade
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Effective diagnosis, remediation, and management of varying reading competences in emergent and early readers, categorized from Tiers 1 through 3 on the Georgia Response to Instruction pyramid.

SERD 6070 Reading Research and Instructi
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Research-based practices and theoretical underpinnings of reading and writing, as they relate to the practical applications of teaching across aspects of literacy.

SMED Sports Medicine

SMED 5015G Assess/Eval Injury & Illness I
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
Cross Listing(s): SMED 5015.

SMED 5050G Pharm of Spts Med Inj & Illnes
2 Credit Hours. 2 Lecture Hours. 0 Lab Hours.
 Basic understanding of pharmacology and the drugs commonly used in physical medicine and exercise.
Cross Listing(s): SMED 5050.

SMED 5055G Path of Spts Med Inj & Ill
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Examines mechanisms responsible for disease processes and subsequent care of illness associated with the participation in physical activity.
Cross Listing(s): SMED 5055.

SMED 5065G Movement/Posture Assmnt & Exer
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Techniques to identify impaired movement patterns and altered tissue adaptations. Corrective exercise strategies, including inhibitory, stretching and activation techniques and program design will be emphasized.
Prerequisite(s): A minimum grade of "C" in SMED 5015G.
Cross Listing(s): SMED 5065.

SMED 5090G Nutritional Issues/Spts Med
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Impact of various nutritional regimens on performance and recovery in athletics.
Cross Listing(s): SMED 5090.

SMED 5555G Phys Actvty Disease Prev/Treat
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Effects of physical activity on health enhancement and maintenance. Bioenergetics, physical assessment methods, equipment, and exercise prescription.
Cross Listing(s): SMED 5555.

SMED 5600G Healthy Wght Mgmt & Body Comp**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of research and applications for methods of improving body composition with a focus on optimal health and physical performance. Students will investigate effective strategies for long-term changes in body fatness and lean body mass.

Cross Listing(s): SMED 5600.**SMED 5940G Internship Strength & Conditioning****1-3 Credit Hours. 1-4 Lecture Hours. 1-15 Lab Hours.**

Supervised instruction in strength and conditioning techniques.

Cross Listing(s): SMED 5940.**SMED 5945G Internship in Spts Med I****1-3 Credit Hours. 0-3 Lecture Hours. 0-6 Lab Hours.**

On-site clinical experiences closely supervised by university faculty and facility instructors in the wellness/health promotion, adult fitness or cardiac rehabilitation settings; weekly seminars will address current clinical issues in the selected populations. May be taken for repeat credit.

Cross Listing(s): SMED 5945.**SMED 6005 Research Methods in Sports Medicine****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Methods of quantitative scientific inquiry and interpretation of research in sports medicine. In addition to promoting the skills to become critical consumers of research products; this course is designed to assist students in developing their research project required for degree completion.

SMED 6030 Evidence-Based Research in Strength & Conditioning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a survey of research design, statistical methodology, and the application of such investigations in the field of strength and conditioning. The focus is on the student's ability to access, appropriately interpret, and apply research findings in practice.

SMED 6060 Exercise Physiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Acute and chronic physiological and biochemical responses of the human body when subjected to exercise.

SMED 6080 Performance Evaluation and Exercise Testing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of laboratory and field-based techniques, using biomedical instrumentation, for assessment of physiological responses. Effective appraisal and exercise prescription in various populations is emphasized.

Prerequisite(s): A minimum grade of "C" in SMED 6060.**SMED 6090 Sport and Exercise Nutrition****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course covers in detail the advanced biochemistry of nutrition and its application to health, physical activity, and athletic performance. The course emphasizes the critical evaluation of peer-reviewed research in this area.

SMED 6100 Statistics for Sports Science and Medicine**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Entry, analysis and application of sports science and medicine statistics.

SMED 6400 Fundamentals of Biomechanics and Human Movement**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The principles of classical mechanics applied to the study of human motion, physical activity and exercise.

SMED 6605 Physical Activity and Aging Across the Lifespan**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The contribution of human movement to the well-being and quality of life of aging populations. Principles, practices, and programs for seniors related to the concept of wellness. The myths, needs and movement potential of aging persons will be evaluated.

SMED 7010 Inj Prev/Risk Mgmt in Spts Med**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of methods and techniques used for the purposes of injury prevention and risk management. An epidemiological perspective will be used throughout the course. Case studies will be used throughout the course.

SMED 7050 Drug & Ergogenic Aids/Spts Med**3 Credit Hours. 2 Lecture Hours. 0 Lab Hours.**

Efficacy and safety of drugs and performance-enhancing supplements in athletics.

SMED 7060 Advanced Exercise Physiology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continuation of SMED 6060. Further exploration into the acute and chronic muscular, cardiovascular, respiratory, and biochemical responses of the human body to exercise. Additionally, exercise and physical activity in altered environments will be explored.

Prerequisite(s): A minimum grade of "B" in SMED 6060.**SMED 7070 Theory and Method of Strength & Conditioning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The efficacy of methods and models of sports training in activities requiring intensive strength and conditioning programs.

SMED 7075 Program Design and Advanced Training Techniques**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An advanced course examining principles of program design, current concepts regarding periodized training and the physiological adaptations in response to power, plyometrics, speed and agility training. Practical mastery as well as theoretical understanding will be required.

Prerequisite(s): A minimum grade of "C" in SMED 7070.**SMED 7080 Applied Sport Science****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Course emphasizes an evidenced based approach to athlete monitoring and development through an examination of the techniques, technologies and analysis used in sport science settings.

Prerequisite(s): A minimum grade of "B" in SMED 6060.**SMED 7085 Tactical Strength and Conditioning****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Principals of strength and conditioning program design as they related to decreasing injury risk and increasing longevity and effectiveness of tactical athletes.

Prerequisite(s): A minimum grade of "B" in SMED 7070.**SMED 7225 Internship in Sports Medicine****1-3 Credit Hours. 1-12 Lecture Hours. 1-12 Lab Hours.**

May be taken for repeat credit. On-site clinical experiences closely supervised by university faculty and facility instructors in the wellness/health promotion, adult fitness or cardiac rehabilitation settings; weekly seminars will address current clinical issues in the selected population.

SMED 7400 Biomech Anal/Hum Mv & Musc Inj**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Mechanical principles and qualitative movement analysis applied to understanding mechanism, treatment, and prevention of musculoskeletal injury. Application of biomechanical principles to integrate joint mechanics with a systems approach to prevent injury and optimize human performance. Case studies will be used throughout the course.

SMED 7450 Neuromechanical Aspects of Human Movement**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The concepts, terms, and methods of investigating biomechanics, neuroscience/neuromechanics, motor control and movement disorders in the human movement system. Practical applications will enable students to optimize their teaching of motor skills in rehabilitation and coaching settings.

Prerequisite(s): A minimum grade of "B" in SMED 6400.

SMED 7500 Special Topics in Sports Medicine
1-3 Credit Hours. 1-12 Lecture Hours. 1-12 Lab Hours.
 Special assignments, agreed to by an advisor, used to provide a unique experience in an educational setting consistent with the student's professional objectives and program focus.

SMED 7505 Organizational Leadership in Sports Medicine
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Knowledge, skills, and values required to develop, lead, administer, and manage a health care facility and associated venues providing sports medicine services. Case studies will be used throughout the course.

SMED 7515 Cardiopulmonary Pathophysiology, Exercise and Rehabilitation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 The physiology and disease process specific to the cardiovascular system. Exercise and rehabilitative mechanisms will be discussed. Case studies will be used throughout the course.

SMED 7520 Psychosocial Issues in Sports Medicine
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Psychological and sociological factors impacting the various aspects of sports medicine and physical activity.

SMED 7700 Self-Directed Student Research in Sports Medicine
1-3 Credit Hours. 1-4 Lecture Hours. 1-12 Lab Hours.
 Students conduct studies relating to their professional interest and responsibilities under the direction of a graduate faculty advisor.

SMED 7994 Thesis/Professional Project in Sports Medicine I
1-3 Credit Hours. 1-12 Lecture Hours. 1-12 Lab Hours.
 Planning and conducting an original research project as a group project or an individual thesis, supervised by the student's thesis committee or project advisor.

SMED 7995 Thesis/Professional Project in Sports Medicine II
1-3 Credit Hours. 1-12 Lecture Hours. 1-12 Lab Hours.
 Completing and presenting an original research project as a group project or an individual thesis, supervised by the student's thesis committee or project advisor.
Prerequisite(s): Satisfactory completion of SMED 7994.

SMGT Sport Management

SMGT 2130 Introduction to Sport Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Introduces students to the meaning of sport management in terms of its scope, foundations, issues and future trends. Examines the job responsibilities and competencies required of sport managers in a variety of sports, or sport-related organizations. Also provides the student with an overview of the different facets and career opportunities available in the field of sport management.

SMGT 2230 Social Issues of Sport
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Helps the student understand the social aspect of sport. Specifically, examines such topics as how social phenomena affect sport participation and behavior, and how the dynamic nature and diverse parameters of society affect the sport industry.
Prerequisite(s): A grade of "C" or better in SMGT 2130.

SMGT 3230 Economics of Sport
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Examines major economic issues in the sport industry and introduces the methodology of economics that can be used to analyze these issues.
Prerequisite(s): A minimum grade of "C" in ACCT 2030, ECON 2105, SMGT 2130, SMGT 2230, STAT 1401 and either CISM 1110, CISM 1120, CISM 1130.

SMGT 3236 Financial Management of Sport
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Examines the fundamental concepts and theories of finance applicable to the field of sport management.
Prerequisite(s): A minimum grade of "C" in ACCT 2030 or ACCT 2101 and SMGT 2130.

SMGT 3237 International Sport Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 An in-depth examination of the nature and role of sport in contrasting cultures and the matters of sport governance that cross national boundaries as well as the possibilities of formulating reform measures in sport policy and practice around the world.
Prerequisite(s): A minimum grade of "C" in ACCT 2030, COMM 2332, ECON 2105, SMGT 2130, SMGT 2230, STAT 1401.

SMGT 3238 Management of Sport Organizations
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Introduces the student to the operation of actual sport enterprises.
Prerequisite(s): A minimum grade of "C" in SMGT 2130.

SMGT 3330 Sport Promotion and Marketing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 Focuses on the application of marketing principles and practices to the sport industry.
Prerequisite(s): A minimum grade of "C" in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, and STAT 1401.

SMGT 3530 Principles of Sport Development
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course examines community development and change through sport programming.
Prerequisite(s): A minimum grade of "C" or better in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, and STAT 1401.

SMGT 3531 Brand Management in Sport
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course addresses critical elements of branding for sport organizations, products, and athletes.
Prerequisite(s): A minimum grade of "C" or better in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, and STAT 1401.

SMGT 3532 Leadership and Programming in Sport Development
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course introduces program planning in sport and techniques, including needs assessment and leadership principles and practices.
Prerequisite(s): A minimum grade of "C" or better in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, and STAT 1401.

SMGT 3533 Intercollegiate Athletics Administration
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
 This course introduces students to governance structures, compliance issues, and organizational challenges inherent to intercollegiate athletics in the United States.
Prerequisite(s): A minimum grade of "C" or better in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, and STAT 1401.

SMGT 3735 Sport Management Practicum
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.
 The student is involved with an organization in a part-time capacity (80 hours during semester) where he/she has the opportunity to work in either a sport industry setting, or one which is commensurate with typical, entry-level sport industry functions and roles. In addition, students will participate in regular seminars focused on professional development. Practicum experiences must be approved by the Undergraduate Internship Director. To enroll, students must have successfully completed program admission requirements, successfully completed SMGT 2130 and SMGT 2230 with a C or better, and have a 2.25 overall GPA.
Prerequisite(s): A minimum grade of "C" in CISM 2530, ECON 2105, SMGT 2130, and STAT 1401.

SMGT 4090 Selected Topics in Sport Management**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Provides a student with in-depth of selected topics in Sport Management.

Prerequisite(s): Permission of instructor.**SMGT 4330 Facility and Event Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Addresses the principles and procedures involved in sports facility and event management. Special emphasis will be given to sports event planning, production, and evaluation.

Prerequisite(s): A minimum grade of "C" in ACCT 2030, CISM 2530, COMM 1110 and SMGT 2130.**SMGT 4336 Sport Business Operations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Teaches the student to use modern computerized programs used in the operations of the sport industry and the policies and procedures that govern their use.

Prerequisite(s): A minimum grade of "C" in ACCT 2030, ECON 2105, SMGT 2130, SMGT 2230, STAT 1401 and either CISM 1110, CISM 1120, CISM 1130.**SMGT 4337 Legal Aspects of Sport****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Helps the student understand the legal aspects of negligence, intentional torts, the essentials of contracts, and elements of constitutional law as they apply to the sport industry. Helps the student understand risk management in the sport industry.

Prerequisite(s): A minimum grade of "C" in SMGT 2130.**SMGT 4338 Sport Policy Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Helps the student understand the modern administrative issues in the administration of sport related businesses. The course will focus on one of the most demanding legal concerns of running sport businesses.

Prerequisite(s): A minimum grade of "C" in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, and STAT 1401.**SMGT 4531 Data Driven Sales in Sport Organizations****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course introduces data collection and statistical analysis techniques used by sport organizations to drive sponsorship and ticket sales.

Prerequisite(s): A minimum grade of "C" or better in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, and STAT 1401.**SMGT 4532 Assessment and Evaluation in Sport Development****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces applied sport research with emphasis on program evaluation, research design, and data collection and analysis.

Prerequisite(s): A minimum grade of "C" or better in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, SMGT 3532 and STAT 1401.**SMGT 4533 Sport Ticket and Sponsorship Sales****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores sales techniques common within the sport industry and provides opportunities for knowledge application to experiential learning opportunities.

Prerequisite(s): A minimum grade of "C" or better in ACCT 2030, CISM 2530, COMM 1110, ECON 2105, SMGT 2130, and STAT 1401.**SMGT 4630 Baseball and American Culture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide students with an overview of the history of baseball in America, and relate the historical events and phenomena to American culture. Course work will relate class topics to historical and contemporary social, cultural, economic, and political issues. Course content will consist of lectures, readings, class discussion, video and other presentations.

SMGT 4735 Sport Management Internship**12 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

The student is involved with an organization in a full-time (40 hours per week) capacity where he/she has the opportunity to work in either a sport industry setting, or one which is commensurate with typical, entry-level sport industry functions and roles. The internship opportunity must be approved by the Undergraduate Internship Director, and allows the Senior student to apply the Sport Management curriculum in a work environment. Students must have a 2.25 Overall GPA to enroll and must have successfully completed all courses (exceptions made ONLY if student lacks ONE course and ONLY with approval of student's advisor) on the program of study for the B.S. in Sport Management. Students who do not meet the 2.25 requirement may complete twelve hours of GUIDED electives with the approval of their advisor.

SMGT 4899 Directed Individual Study**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Provides the student with the opportunity to investigate an area of interest under the direction of a faculty mentor.

Prerequisite(s): Permission of instructor.**SMGT 6030 Selected Topics in Sport Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides students with the opportunity to study contemporary topics and issues relevant to the sport management profession.

SMGT 6131 Management of Personnel in Sport**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a study of people at work and the accompanying attitudes, behaviors, and skills that employees exhibit during the work process. The goal of the course is first for students to understand and recognize specific workplace behaviors/attitudes and second, for students to learn various approaches to managing these behaviors/attitudes. Additionally, special attention is given to the management of volunteers in the sport industry.

SMGT 6132 Current Trends in Sport Administration**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides insight into the past, current, and future trends in the field of sport administration. Emphasis will be placed on comprehension, assessment and problem resolution. Administrative theory and function, as well as cultural, social, legal and economic factors; and professional practices and applications within the field of sport administration are analyzed and applied to current issues and trends in the industry.

SMGT 6133 Consumer Behavior in Sport**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Sport spectating is an extremely popular activity in the United States and little is known about the theoretical nuances that determine spectator behavior in sport. This course is intended to provide students with comprehensive coverage of sport spectator consumer behavior. Various models and paradigms relevant to sport spectator consumption behavior will be examined.

SMGT 6134 Sport Sponsorship**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course contains a detailed consideration of the relationship between sports and corporate sponsorship programs. The course focuses on alignment marketing issues, strategic communication through sponsorship programs, sponsor value, and sponsorship evaluation.

SMGT 6135 Revenue Generation in Sport**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course exposes students to a broad range of topics related to Revenue Generation in the Sport Industry mostly centered around ticket sales and fundraising. Students will learn various approaches to ticket sales strategies in professional sports, the process of a sales call, specific types of inventory in professional and collegiate sport, and strategies for successful fundraising in collegiate athletics.

SMGT 6330 Social and Ethical Issues of Sport and Leisure
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduces the student to a variety of sociological principles and implications that relate to human organization and human interaction within the realm of leisure and sport. Leisure and sport are pervasive influences in American culture and in much of the developed world. It is important to understand the evolution of the leisure ethic in our society, how sport has become so important and how an individual is socialized through the forum of sport. The class will investigate the interrelationships between society, sport, popular culture and the value systems attributed to the involvement in these areas.

SMGT 6335 Sport Administration
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to develop a futuristic understanding of the management of sport related businesses. The exponential change in the world of sport requires an understanding of successful past and present practices and the foreseeability of change. Emphasis in this class will be on strategic planning for change, NCAA change in organization and mandates, the current and future legal environment in sport including changes in "standards of care", and the managerial implications for keeping up with the changing nature of sport participants and the associated coaching changes needed to be effective.

SMGT 6337 Sport Facility and Event Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Helps the student understand contemporary sport facilities and event management. Important aspects of the class include event risk management, event planning and operations, facilities management, facility planning and development, and negotiating with promoters, independent contractors and those involved in privatization.

SMGT 7330 Research and Analysis in Sport
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course offers an operational understanding of research, evaluation methods, and statistical applications in the sport industry. Students taking this course should be able to design and conduct research in sport organizations that generates trustworthy data and adequately addresses a business question.

SMGT 7335 Sport Law and Risk Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Provides an advanced understanding of legal proceedings, legal research, negligence, and risk management. Through actual experiences of advanced legal research, moot courts, and the development of a risk management plan for an actual sport business students will develop a deeper understanding of the current status of negligence as it applies to the sport industry and the development of a risk plan to reduce operational risks.

SMGT 7337 Sport Marketing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Examines the unique nature of marketing sport both as a participatory and spectator event. Emphasis is upon understanding the synergy of marketing, sport and society. Consideration is given to marketing collegiate and professional sport.

SMGT 7339 Financial and Strategic Management in Sport
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Traditional and innovative revenue acquisition methods available to sport organizations will be examined. Particularly, the thorough financial analysis of two sport organizations competing in the same segment of the sport industry. The second half of the course focuses on macro management strategies. Content includes low-cost provider, differentiation and niche strategies and the analysis of Porter's 5 Forces Model of sustaining competitive advantage.

SMGT 7790 Sport Management Internship
9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Allows the student to apply the knowledge and skills acquired in class and to receive practical experience in selected sport industry settings.

SMGT 7830 Directed Individual Study
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Provides an opportunity to pursue an independent sport management research project or to work with a faculty member as part of a research team.

SMGT 7899 Directed Independent Study of Sport Management
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

An independent or directed study supervised by a member of the graduate faculty of the Sport Management program.

SMGT 7999 Thesis
1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.

Opportunity to conduct an independent research project in the preferred field of sport management, requiring the development of a thesis proposal, the execution of appropriate research, the analysis of results, and the development of a written product.

SOCI Sociology

SOCI 1101 Introduction to Sociology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A survey of the discipline of sociology. Topics include sociological theory, methods, and selected substantive areas.

SOCI 2000 Global Sociology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Exploring the global world through a sociological lens. Topics include: globalization, global inequalities, international conflict, social institutions, and world-wide environmental crises.

SOCI 2130 Introduction to Gerontology
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This is a comprehensive introduction to the field of gerontology meant to assist students in the application of an aging perspective for any discipline or major. The course includes a focus on the social, psychological, biological, policy, and humanities perspective of the aging experience.

SOCI 2232 Introduction to Social Services
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to introduce students to the field of social services, including the history of the profession and its knowledge, skill and value base. Students will gain an understanding of various careers within social services and the settings in which they are practiced. They will gain an understanding of micro, mezzo, and macro type agencies.

SOCI 2434 Social Data Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will teach students the skills to make them better consumers of data related to social issues. Students will learn to perform univariate and bivariate analyses using a data analysis program, and will learn to write and read research reports.

SOCI 3094 Selected Topics in Sociology
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

This course covers various substantive topics, theoretical issues, or sociological problems not otherwise offered in the sociology curriculum. Possibility to repeat with different topics.

SOCI 3135 Aging
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the impact of an aging population upon society and the effects of the socially-defined experience of aging upon the individual. Special attention is given to economic factors, retirement, lifestyle options, health, death, and widowhood.

SOCI 3232 Human Behavior and the Social Environment
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course covers theories of human development across the lifespan through various perspectives and within different cultural and sociological contexts.

SOCI 3235 Race and Ethnicity**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a survey of the major concepts and theories in the study of racial and ethnic relations in the United States. The situations and experiences of various racial and ethnic groups are considered.

Prerequisite(s): SOCI 1101.**Cross Listing(s):** AAST 3235.**SOCI 3250 Sociology of Education****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of the organization and role of educational institutions in contemporary society, including contributions to both social mobility and the preservation of the prevailing social order.

SOCI 3260 Sociology of Work**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to the sociology of work that will explore contemporary transformations in work and employment, and their impact on social relations. The course will focus primarily on working conditions and jobs in the United States, but will take account of how different types of work and workers are connected worldwide.

SOCI 3330 Exploring Popular Culture**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of popular culture using mass media, technology, and language to explore a given era. Comparisons of lifestyles, gender roles, attitudes towards various groups, and the national and regional mood of the times.

SOCI 3333 Deviance**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Nature of deviance, social behavior that departs from that regarded as normal or socially acceptable within a society or the social context, with a focus on sociological deviance. Deviance is revealed as complex social processes, cultural arrangements, and cultural adaptations.

SOCI 3335 Social Change**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Discussion of theories and causes of social change in contemporary or historical perspective.

SOCI 3336 Social Problems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Sociological examination of contemporary social problems with an emphasis on their causes, consequences, and possible solutions.

SOCI 3338 Sociology of the Life Course**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course uses sociological theories, perspectives, and conceptual frameworks to analyze aging-related social issues. It examines the social forces that shape the diverse experiences of aging for individuals throughout the life course. Emphasis is placed on structural issues such as age stratification, the life course, and societal aging as a force in social change.

SOCI 3339 Sociology of Sexuality**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the social construction of sexuality, including social influences upon sexual scripts and normative ideas regarding human sexuality.

SOCI 3431 Sociological Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to social theory from the classical to the contemporary. Major theoretical fields, theorists, and issues are covered. Required of all Sociology majors.

Prerequisite(s): SOCI 1101.**SOCI 3434 Methods of Social Research****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will cover both quantitative and qualitative research designs in sociological research. Required of all Sociology majors.

Prerequisite(s): SOCI 1101.**SOCI 3435 Environmental Sociology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the interconnectedness of human societies and the natural environment and explores contemporary (and often controversial) environmental issues.

SOCI 3451 Service Learning and Civic Engagement**3 Credit Hours. 3 Lecture Hours. 0-18 Lab Hours.**

An experiential learning course that connects sociological concepts and theories to community service. Includes field experiences.

SOCI 3490 Comparative Societies, Politics and Institutions**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

On-site examination of society and social institutions of other countries. Course intended for study abroad programs only.

SOCI 3510 Gender, Violence and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the family as an institution that may produce violent individuals. Correlates of family violence, theoretical explanations, impact on public policy, effects on victims and society.

SOCI 3520 Sociology of Tourism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Sociological examination of tourism and the tourism industry. Emphasis on the social construction of cultural significance and meaning, from historical sites and monuments to theme parks and vacation destinations, from the collective and social memory to the impact of tourism on development, and culture.

SOCI 3531 Introduction to LGBT Studies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the questions, topics, and theories which characterize the field of Lesbian, Gay, Bisexual and Transgender (LGBT) Studies.

SOCI 3600 Sociology of the Media**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of media's impact on society and the social construction of reality.

SOCI 3700 Sociology of Tourism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Sociological examination of tourism and the tourism industry. Emphasis on the social construction of cultural significance and meaning, from historical sites and monuments to theme parks and vacation destinations, from the collective and social memory to the impact of tourism on development, and culture.

SOCI 4131 Sociology of Terrorism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

International and domestic terrorism undertaken for political purposes in liberal states. Primary focus on state-sponsored international terrorism, American domestic revolutionary terrorism, and the dilemmas of counter-terrorism in a democracy.

SOCI 4132 Sociology of Community**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on community life in the United States. Community is viewed as a social entity and an arena of social interaction. Urban, rural, and alternative communities in the U.S. are investigated to uncover their patterns of interaction and organization.

SOCI 4133 Sociology of Religion**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course involves the sociological study of religion focusing on the human (especially social) aspects of religious belief and practice. Various religious groups will be examined to identify how they organize their collective religious expressions.

SOCI 4134 Sociology of Childhood**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on childhood as a social phenomenon. Childhood is viewed as a social construction, and particular attention is paid to the cultural context in which childhood has flourished, the role of children's culture in society, and social problems that are associated with childhood.

SOCI 4135 Death and Dying**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines sociocultural dimensions of death, dying, bereavement, grief, and mourning, including cross-cultural comparisons and social patterns in historical perspective.

SOCI 4137 Social Movements**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on the sociological study of social movements and extra institutional political conduct. Key theories and research methods used will be reviewed.

SOCI 4138 Sociology of the Family**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course investigates the various links between families and the larger society and how family life is impacted by broad political, economic, and technological changes. The course will also examine the internal dynamics of family life such as intimacy, marriage, and parent/child relationships.

SOCI 4139 Medical Sociology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of the field of medical sociology. Topics covered include social and cultural factors related to health and illness, health disparities, sociological models of health and illness, the sick role, chronic illness, physician patient relationship, historical and emerging health care policies, and the social organization of health care institutions, medical careers, and health care.

SOCI 4231 Child Welfare and Family Services**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Comprehensive study of current philosophy and practice in the various fields of child welfare, including family income maintenance programs, child protective service, adoption, foster care, institutional placement of children, home based services, family preservation, early childbearing, guardianship and custody, the family and the courts, and child advocacy.

SOCI 4232 Social Welfare Policy and Services**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An analysis of American social welfare policy. Covers programs and policies under public, voluntary, and proprietary auspices in the areas of income maintenance, mental health and substance abuse, health care, child welfare, nutrition, housing, and employment.

SOCI 4235 Aging Programs and Policies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to familiarize students with current programs and policies for older adults. Familiarity with these programs and policies requires an understanding of the social policy process and the role of norms, values and beliefs in that process. The course will move from an understanding of demographic trends to an understanding of policy development for the aging community and then focus on the programs that exist to support our aging society at the local, state and federal levels.

SOCI 4236 Social Services Counseling Skills**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the knowledge, skills and value base for working in the social services. The emphasis is on preparation for practice in social services settings.

Prerequisite(s): SOCI 2232.**SOCI 4332 Sociology of Gender****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the social construction of gender and gender inequality in society.

SOCI 4334 Sociology of Organizations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Organizations are ubiquitous in society and impact people's everyday behavior. The course will focus on organizational structure and behavior using sociological and organizational theories. The course will examine how the changing social environment impacts the behavior of organization.

SOCI 4335 Self and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores the relationship between the self and society (the individual and the social milieu) using social psychological and/or symbolic interactionist perspectives. Content includes origins of the self and how it is shaped by society, formation of norms, identity management, socialization, interpersonal influence, and role behavior.

SOCI 4338 Sport, Culture, and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines sport as a social institution, focusing on cultural values related to sport, stratification within and among sports, and issues of power and inequality pertaining to sport.

SOCI 4431 Inequality**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the sociological approaches and theories of stratification and structured inequality, and analyzes the causes and consequences of economic, political, and social inequality.

SOCI 4433 Program Evaluation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores what it means to live in a society in which accountability is a thematic issue and policy and program benefits which accrue from well-designed evaluations, and proposals. Evaluation research and grant development issues, including basic design and use considerations are discussed.

SOCI 4450 Sociology of Nationalism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Various theories of nationalism and their social, historical, economic, and cultural contexts. Cultural, ethnic, and national identity and conflict are the focus. Ethnic, religious, civic, economic, and anti-colonial nationalism are examined in a global perspective.

SOCI 4630 Senior Seminar**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A capstone course which involves original student research. The scope, theme, and requirements of the research will be determined by the instructor. Required of all senior majors.

Prerequisite(s): SOCI 2434 and SOCI 3431 and SOCI 3434.**SOCI 4790 Internship****3-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course is an educational placement to provide qualified students the ability to apply classroom knowledge in a professional setting, which is appropriate for their academic background and career objectives. Internships provide students with learning experiences in order to enhance their academic preparation and increase their professional skills. Students complete tasks at their internship site in addition to course assignments relating their internship experience to academic research/knowledge and previous coursework.

Prerequisite(s): Sociology major and SOCI 1101 and departmental approval.**SOCI 4810 Independent Study****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A directed study on a pre-approved topic in a field of special interest taken under the supervision of a faculty member.

Prerequisite(s): Department approval.**SOCI 4900 Directed Individual Research****3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Directed research on a pre-approved topic in a field of special interest, taken under supervision of a faculty member.

Prerequisite(s): Department approval.**SOCI 6135 Aging****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the impact of an aging population upon society and the effects of the socially defined experience of aging upon the individual. Special attention is given to economic factors, retirement, life-style options, health, death, and widowhood.

SOCI 6136 Death and Dying**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines sociocultural dimensions of death, dying, bereavement, grief, and mourning, including cross-cultural comparisons and social patterns in historical perspective.

SOCI 6139 Sociology of Health Care**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analyzes health and illness from a sociological perspective. Attention will be given to health care institutions, roles, beliefs, and practices as well as newly emerging roles.

SOCI 6235 Race and Ethnicity**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A survey of the major concepts and theories in the study of racial and ethnic relations in the United States. The situations and experiences of various racial and ethnic groups are considered.

SOCI 6434 Research Design & Method**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the role of theory, research design, sampling, measurement and instrumentation, data collection, and ethical related to sociological research.

SOCI 6435 Soc. Quantitative Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the techniques and statistics necessary to design and interpret quantitative sociological research.

SOCI 6436 Qualitative Research Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analysis and practice of qualitative methodology in sociology. Includes participant observation, interviews, case studies, content analysis and other innovative techniques.

SOCI 6631 Seminar in Self and Society**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of social psychological theory and research with emphasis upon the sociological perspective. Both structural and symbolic interactionist theories are explored.

SOCI 6632 Seminar in Social Change**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines sociological approaches to and theories of change and analyzes causes and consequences of long-term structural transformation.

SOCI 6633 Seminar in Social Stratification**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines several different approaches, methods, and data sources from the research specialty area of inequality. Introduces student to themes that are used to organize and differentiate theories of social stratification. Some familiarity with quantitative methods and empirical research will be **prerequisites** to successful performance in the course.

SOCI 6634 Seminar in Social Organization**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examination of theories of social organization and their application at both the micro and macro levels of analysis in groups, organizations, and societies.

SOCI 6635 Sociology of Gender**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the social construction of gender and gender inequality in society.

SOCI 6637 Social Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the role of theory in the scientific endeavor and explores a number of theoretical perspectives, including structural functionalism, conflict, feminist, exchange, rational choice, symbolic interaction, and the current debates over modernity and postmodernity.

SOCI 6638 Proseminar in Social Science**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduces students to the foundations and controversies in social scientific research.

Cross Listing(s): ANTH 6638, POLS 6638.

SOCI 7091 Selected Topics in Sociology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

In-depth examination of selected topics of contemporary interest and relevance to Sociology. Topics will vary and course may be repeated as topics change.

SOCI 7100 Critic Think & Meth of App Res**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines concepts and methods used in social science research with particular emphasis on the philosophy of science; presuppositions; aims and history of procedures and methods; research techniques; sources; bibliography and presentation and publication of investigative results.

SOCI 7433 Program Evaluation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Explores what it means to live in a society in which accountability is a thematic issue and policy and program benefits which accrue from well-designed evaluations, and proposals. Evaluation research and grant development issues, including basic design and use considerations are discussed.

SOCI 7434 Quantitative Research Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the role of theory, research design, sampling, measurement and instrumentation, data collection, and ethical issues related to social scientific research.

SOCI 7435 Seminar on the Rural South**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Examines the lifeways, traditions, and social organization of rural society in the American South. Uses the dynamics of class, race and gender to understand the social structure and legacies of rural southern communities.

SOCI 7436 Qualitative Research Design**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analysis and practice of qualitative methodology in social science. Topics may include participant observation, ethnographic methods, interviews, case studies, content analysis, archival research and other innovative techniques.

SOCI 7437 Statistics for Social Science**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Study of the techniques and statistics necessary to design and interpret quantitative social scientific research.

SOCI 7638 Social Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines the role of theory in the scientific endeavor and explores a number of theoretical perspectives, including structural-functionalism, conflict, feminist, exchange, rational choice, symbolic interaction, and the current debates over modernity and postmodernity.

SOCI 7790 Practicum**1-9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Designed as an educational placement to give graduate students a practical experience in a vocationally-appropriate setting.

SOCI 7891 Independent Study in Sociology**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent examination of graduate course topics offered in the sociology curriculum of the Department of Sociology and Anthropology following guidelines of the College of Graduate Studies.

SOCI 7892 Directed Research in Sociology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Participation in an independent or group research project. More than three hours of credit for directed research may be earned, but only three hours may be applied to the completion of minimum hours required for the M.A. in Social Science degree.

SOCI 7990 Applied Monograph**1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.**

A document of thesis quality and rigor which presents research and systematic observations from a practicum or field internship experience of no less than one semester. As a substitute for the traditional thesis, this option must be approved by the sociology graduate faculty of the Department of Sociology and Anthropology.

SOCI 7999 Thesis**1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Research thesis.

SOCI 8891 Independent Study in Sociology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Independent examination of graduate course topic offered in the sociology curriculum of the Department of Sociology and Anthropology following guidelines of the College of Graduate Studies. Designed for graduate students beyond the master's level.

SOCI 8892 Directed Research in Sociology**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Participation in an independent or group research project. Designed for students participating in programs of study beyond the master's level.

SPAN Spanish

SPAN 1001 Elementary Spanish I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to listening, speaking, reading, and writing in Spanish and to the culture of Spanish-speaking regions.

SPAN 1002 Elementary Spanish II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continued listening, speaking, reading and writing, in Spanish with further study of the culture of Spanish-speaking regions.

Prerequisite(s): A minimum grade of "C" in SPAN 1001.

SPAN 1060 Accelerated Elementary Spanish**6 Credit Hours. 6 Lecture Hours. 0 Lab Hours.**

An accelerated introduction to listening, speaking, reading, and writing in Spanish and to the culture of Spanish-speaking regions. Completes the elementary levels of Spanish in one semester.

SPAN 2001 Intermediate Spanish I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Building upon communication skills (understanding, speaking, reading, and writing Spanish) and cultural understanding, developed at the elementary level.

Prerequisite(s): A minimum grade of "C" in SPAN 1002 or SPAN 1060 or at least two years of high school Spanish with a minimum grade of "B".

SPAN 2002 Intermediate Spanish II**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Continued building upon proficiency skills (speaking, writing, listening, and reading) and cultural understanding. Focus on development of the ability to create with the language, to resolve simple situations, and to ask and answer questions. After completing this course, successful students should be prepared to function minimally in a Spanish-speaking environment and to take SPAN upper-division courses.

Prerequisite(s): A minimum grade of "C" in SPAN 2001.

SPAN 2050 Spanish for Health Care Sys**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Skills to communicate with Spanish-speaking patients in a wide variety of clinical situations.

Prerequisite(s): A minimum grade of "C" in SPAN 2001.

SPAN 2060 Accelerated Intermediate Spanish**6 Credit Hours. 6 Lecture Hours. 0 Lab Hours.**

Accelerated intermediate Spanish with continued work on listening, speaking, reading, and writing in Spanish and the culture of Spanish-speaking regions. Completes the intermediate levels of Spanish in one semester.

Prerequisite(s): A minimum grade of "C" in SPAN 1002 or SPAN 1060.

SPAN 3030 Selected Topics in Spanish**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Selected topics in Spanish.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3031 Spanish Conversation**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Conversational Spanish to develop greater oral proficiency and awareness of Hispanic culture. Review of grammar and syntax through guided essays.

Prerequisite(s): A minimum grade of "C" in SPAN 2002.

SPAN 3130 Applied Speaking Skills I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides practice in listening, speaking, writing, and reading skills with emphasis on oral communication at the intermediate level of proficiency, based on the ACTFL guidelines. Focus is placed on the development of narration, description, summary, comparison, and explanation in all major time frames within specific communicative contexts in paragraph-length discourse.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3131 Critical Reading and Writing I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides practice in writing, reading, and oral skills with emphasis on reading comprehension and written communication at the intermediate level of proficiency, based on the ACTFL guidelines. Focus is placed on the development of narration, description, summary, comparison, and explanation in all major time frames within specific communicative contexts in paragraph-length discourse.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3132 Spanish Phonetics and Phonology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A detailed analysis both in theory and in practice of Spanish speech patterns, vowels, consonants, and intonation.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3195 Studies Abroad: Language**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course in oral and written communications in Spanish using materials and resources available in the foreign country.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060.

SPAN 3295 Studies Abroad: Literature**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of selected works of literature in Spanish which are appropriate for building on language skills or which are related thematically to the country or culture visited.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060.

SPAN 3335 Conversation, Composition, Culture: South America
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on improving linguistic and cultural proficiency within the context of Spanish American cultural content. Course content varies; may include film, music, art, literature, history, etc. Emphasis will be placed on helping students achieve consistency with paragraph formation, narration, detailed description, and resolving a situation with a complication. The linguistic goal of the course is to help students approach the point at which they can communicate at ease with a native speaker of Spanish who is unaccustomed to speaking with non-Spanish speakers.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3336 Conversation, Composition, Culture: Mexico and Central America
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on improving linguistic and cultural proficiency within the context of Mexican cultural content. Course content varies; may include film, music, art, literature, history, etc. Emphasis will be placed on helping students achieve consistency with paragraph formation, narration, detailed description, and resolving a situation with a complication. The linguistic goal of the course is to help students approach the point at which they can communicate at ease with a native speaker of Spanish who is unaccustomed to speaking with non-Spanish speakers.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3337 Conversation, Composition, Culture: The Caribbean
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on improving linguistic and cultural proficiency within the context of Caribbean cultural content. Course content varies; may include film, music, art, literature, history, etc. Emphasis will be placed on helping students achieve consistency with paragraph formation, narration, detailed description, and resolving a situation with a complication. The linguistic goal of the course is to help students approach the point at which they can communicate at ease with a native speaker of Spanish who is unaccustomed to speaking with non-Spanish speakers.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3338 Conversation, Composition, Culture: Spain
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on improving linguistic and cultural proficiency within the context of Peninsular cultural content (Spain). Course content varies; may include film, music, art, literature, history, etc. Emphasis will be placed on helping students achieve consistency with paragraph formation, narration, detailed description, and resolving a situation with a complication. The linguistic goal of the course is to help students approach the point at which they can communicate at ease with a native speaker of Spanish who is unaccustomed to speaking with non-Spanish speakers.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3339 Conversation, Composition, Culture: Latino USA
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Focuses on improving linguistic and cultural proficiency within the context of US Latino cultural content. Course content varies; may include film, music, art, literature, history, etc. Emphasis will be placed on helping students achieve consistency with paragraph formation, narration, detailed description, and resolving a situation with a complication. The linguistic goal of the course is to help students approach the point at which they can communicate at ease with a native speaker of Spanish who is unaccustomed to speaking with non-Spanish speakers.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 3395 Studies Abroad: Culture
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Students become familiar with the culture of the country in which they are staying by examining selected historical, geographical, and artistic features and discussing aspects of the lifestyles of the country.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060.

SPAN 3530 Introduction to Spanish for the Professions
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course incorporates authentic cultural materials and situational practice as students explore a wide range of advanced-level Spanish content and discourse related to professions.

Prerequisite(s): A minimum grade of "C" in SPAN 2002 or SPAN 2060 or any upper-division SPAN course.

SPAN 4030 Special Topics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Hispanic literature: subject announced when course offered. Thematic studies such as the picaresque and the anti-hero. May be repeated for additional credit when topics change.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

SPAN 4050 Advanced Spanish for Health Care Professionals
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Skills and techniques needed to work as a translator/ interpreter in the health care field, with an introduction to the variety of careers available to bilingual health care professionals.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

SPAN 4095 Study Abroad Selected Topics
1-12 Credit Hours. 1-12 Lecture Hours. 0 Lab Hours.

Selected topics for Independent Study Abroad in Spanish-speaking countries.

Prerequisite(s): Departmental approval.

SPAN 4130 Applied Speaking Skills II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course builds on listening, speaking, writing, and reading skills with an emphasis on oral communication at the advanced level of proficiency, based on the ACTFL guidelines. Students will focus on speaking and the acquisition of advanced grammatical concepts appropriate for more complex communicative tasks, including stating and supporting opinions, hypothesizing, and speaking in the abstract in linked-paragraph discourse.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

SPAN 4131 Critical Reading & Writing II
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course builds on writing, reading, and oral skills with emphasis on reading comprehension and written communication at the advanced level of proficiency, based on the ACTFL guidelines. Students will focus on the acquisition of advanced grammatical concepts appropriate for the production and comprehension of more complex texts. This course targets communicative tasks such as stating and supporting opinions, hypothesizing, and writing in the abstract, all in linked-paragraph discourse.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 & SPAN 3132.

SPAN 4132 Introduction to Hispanic Linguistics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

What is language? How do languages function? How is human language different from other communication systems? Focusing on Spanish, this course also explores language acquisition, language contact and bilingualism.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 & SPAN 3132.

SPAN 4195 Studies Abroad: Advanced Language
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

The practice of Spanish language and study of the supporting grammatical structures using materials and resources available in the foreign country.

Prerequisite(s): Departmental approval.

SPAN 4200 Introduction to Hispanic Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Introduction to literary and cultural texts in Spanish: to their production, interpretation, and signification. Selected works may include examples of poetry, narrative, drama, essay, and film. Students will study and practice the basics of textual analysis while they continue to work on the ability to narrate, describe, and explain in all time frames.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

SPAN 4231 Spanish American Life, Literature, and Thought
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An exploration of the life, literature, and thought of Spanish America, with focus on building advanced-level proficiency in writing, listening, reading, and speaking.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

SPAN 4233 Peninsular Life, Literature, and Thought
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An exploration of the life, literature, and thought of Spain, with focus on building advanced-level proficiency in writing, listening, reading, and speaking.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

SPAN 4295 Studies Abroad: Advanced Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An intensive study of literary works thematically related to the country or culture visited by the student.

Prerequisite(s): Departmental approval.

SPAN 4395 Studies Abroad: Advanced Civilization
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study at the advanced level of the land, culture, civilization, monuments, and artistic achievements of the country in which the student is studying.

Prerequisite(s): Departmental approval.

SPAN 4530 Advanced Spanish for the Professions
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course incorporates authentic cultural materials and situational practice as students explore a wide-range of advanced-level Spanish content and discourse related to professions.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

SPAN 4532 Foundations of Translation
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is an introduction to the field of translation. It focuses on comparative study of characteristic modes of expression and introduction to the theoretical aspects and practical techniques of translation, using documents from a variety of sources.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

SPAN 4890 Directed Study in Spanish
1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Concentrated study of a topic in Spanish literature, culture, society, thought or language. May be repeated for credit provided a new topic is studied.

Prerequisite(s): Departmental approval.

SPAN 5030 Selected Topics in Spanish
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Selected topics in Spanish.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

Cross Listing(s): SPAN 5030G.

SPAN 5090 Selected Topics in Spanish
1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.

Selected Topics.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

Cross Listing(s): SPAN 5090G.

SPAN 5230 Studies in Hispanic History
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Practice of superior-level Spanish-proficiency skills through the examination of the history of the Spanish-speaking world. Course repeatable for credit with advisor approval.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

Cross Listing(s): SPAN 5230G.

SPAN 5232 Studies in Hispanic Societies
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Practice of superior-level Spanish-proficiency skills through the examination of the societies of the Spanish-speaking world, with particular focus on the various minority groups. Course repeatable for credit with advisor approval.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

Cross Listing(s): SPAN 5232G.

SPAN 5234 Studies in Hispanic Literature
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Practice of superior-level Spanish-proficiency skills through the examination of the literatures of the Spanish-speaking world. Situates works in their cultural, historical, and aesthetic contexts using appropriate critical methodologies. Course repeatable for credit with advisor approval.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

Cross Listing(s): SPAN 5234G.

SPAN 5331 Latinos in the U.S.
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to familiarize students with significant cultural, historical, and social contributions of Latinos in the United States. Emphasis will be placed on the diversity within the Latino community and the contributions of Latino literature.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

Cross Listing(s): SPAN 5331G.

SPAN 5332 Studies in Hispanic Film
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Practice of Superior-level Spanish-proficiency skills through study of the films of the Spanish-speaking world. Situates works in their cultural, historical, and aesthetic contexts using appropriate critical methodologies. Course repeatable for credit with advisor approval.

Prerequisite(s): A minimum grade of "C" in SPAN 3131 and SPAN 3132.

Cross Listing(s): SPAN 5332G.

SPAN 5442 Content and Methods Spanish Education
3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.

Methods, contents, and materials focusing on the teaching of foreign languages for P-12. Directed field experience involved with opportunity for presentation of instructional models in the classroom.

Cross Listing(s): SPAN 5442G.

SPAN 5030G Selected Topics in Spanish**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Selected topics in Spanish. Graduate students will be assigned extra work that undergraduates will not be required to do.

Prerequisite(s): Permission to take graduate-level coursework.**Cross Listing(s):** SPAN 5030.**SPAN 5090G Selected Topics in Spanish****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Selected Topics.

Prerequisite(s): Permission to take graduate-level coursework.**Cross Listing(s):** SPAN 5090.**SPAN 5230G Studies in Hispanic History****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through the examination of the history of the Spanish-speaking world. Course repeatable for credit with advisor approval. Graduate students must produce an extra paper/project, give an extra conference-length presentation, and conduct extra research that is not required of the undergraduate students.

Prerequisite(s): Permission to take graduate-level coursework.**Cross Listing(s):** SPAN 5230.**SPAN 5232G Studies in Hispanic Societies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through the examination of the societies of the Spanish-speaking world, with particular focus on the various minority groups. Course repeatable for credit with advisor approval. Graduate students must produce an extra paper/project, give an extra conference-length presentation, and conduct extra research that is not required of the undergraduate students.

Prerequisite(s): Permission to take graduate-level coursework.**Cross Listing(s):** SPAN 5232.**SPAN 5234G Studies in Hispanic Literature****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through the examination of the literatures of the Spanish-speaking world. Situates works in their cultural, historical, and aesthetic contexts using appropriate critical methodologies. Course repeatable for credit with advisor approval. Graduate students must produce an extra paper/project, give an extra conference-length presentation, and conduct extra research that is not required of the undergraduate students.

Prerequisite(s): Permission to take graduate-level coursework.**Cross Listing(s):** SPAN 5234.**SPAN 5331G Latinos in the U.S.****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to familiarize students with significant cultural, historical, and social contributions of Latinos in the United States. Emphasis will be placed on the diversity within the Latino community and the contributions of Latino literature. Graduate students will be assigned extra work that undergraduates will not be required to do.

Prerequisite(s): Permission to take graduate-level coursework.**Cross Listing(s):** SPAN 5331.**SPAN 5332G Studies in Hispanic Film****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through study of the films of the Spanish-speaking world. Situates works in their cultural, historical, and aesthetic contexts using appropriate critical methodologies. Course repeatable for credit with advisor approval. Graduate students must produce an extra paper/project, give an extra conference-length presentation, and conduct extra research that is not required of the undergraduate students.

Prerequisite(s): Permission to take graduate-level coursework.**Cross Listing(s):** SPAN 5332.**SPAN 5442G Content & Methods Span Ed****3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.****SPAN 6132 Hispanic Linguistics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course explores Spanish linguistics and establishes the basis for future application of linguistic principles. The course begins with an exploration of the sound system of Spanish and its theoretical representation. Building on this, the discussion continues with topics in Spanish morphology such as word formation and verbal inflection. This is followed by issues in syntax and semantics that are analyzed both in isolation and in terms of their relationship to each other. The goal of this course is to provide students with a level of knowledge that enables them to make connections between the structure of Spanish and relevant issues in contemporary Hispanic linguistics, such as language variation, bilingualism, and Spanish in the United States.

SPAN 6230 Early Modern Hispanic Studies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through detailed analysis of the Spanish-speaking world prior to the disintegration of the Spanish Empire. Situates content studied in its cultural, historical, and aesthetic contexts using appropriate critical methodologies. Course repeatable for credit with advisor approval.

SPAN 6231 18th- and 19th-Century Hispanic Studies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through detailed analysis of the Spanish-speaking world of the eighteenth and nineteenth centuries. Situates content studied in its cultural, historical, and aesthetic contexts using appropriate critical methodologies. Course repeatable for credit with advisor approval.

SPAN 6237 20th- and 21st-Century Hispanic Studies**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through detailed analysis of the Spanish-speaking world of the twentieth and twenty-first centuries. Situates content studied in its cultural, historical, and aesthetic contexts using appropriate critical methodologies. Course repeatable for credit with advisor approval.

SPAN 7090 Selected Topics in Spanish**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Selected Topics in Spanish.

SPAN 7091 Seminar in Spanish**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Seminar in Spanish.

SPAN 7130 Studies in Spanish Pedagogy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through the study of the history and practice of Spanish pedagogy. Emphasis placed on learning how to help Spanish-language learners become functionally proficient in Spanish. Opportunities provided for hands-on experience. Course repeatable for credit with advisor approval.

SPAN 7131 Studies in Spanish Language**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through theoretical and pragmatic analysis of various branches of linguistics, with special attention to practical applications. Topics may include semantics, stylistics, morphology, phonology, dialectology, sociolinguistics, etc. Course repeatable for credit with advisor approval.

SPAN 7195 Studies Abroad: Language**1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Studies oral and written features of the Spanish within a Spanish-speaking country, using native materials and resources.

SPAN 7232 Studies in Hispanic Authors**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through the study of the life, works, and criticism of a particular Hispanic author. Course repeatable for credit with advisor approval.

SPAN 7233 Periods, Genres, Themes**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through the study of a particular period, genre, or theme of importance in Hispanic life, art, and literature. Course repeatable for credit with advisor approval.

SPAN 7234 Spanish Masterpieces**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Practice of Superior-level Spanish-proficiency skills through the study of a Spanish masterpiece situated within both its historical moment and its critical aftermath. Works might include such titles as *Don Quijote*, *Cien años de soledad*, *La Regenta*, etc. Course repeatable for credit with advisor approval.

SPAN 7395 Studies Abroad: Culture**1-12 Credit Hours. 1-12 Lecture Hours. 0 Lab Hours.**

Studies literature, culture, and/or civilization within a Spanish-speaking country, using native materials and resources.

SPAN 7890 Directed Study in Spanish**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent Study under faculty supervision.

SPED Special Education

SPED 3003 Devel Lang & Commun Skills**3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

Teaches a variety of strategies for developing and facilitating language and communication skills in terms of appropriate use of phonology, morphology, semantics, syntax, and pragmatics. Covers cultural and dialectical aspects of language. Includes practicum.

SPED 3130 Characteristics of Learners with Disabilities**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course provides a review of the etiology, diagnosis, characteristics, and philosophical and educational implications of the full range of students with special needs who demonstrate a need for additional educational services in order to achieve full potential. Considerable emphasis will be placed on the delivery of educational services and social issues related to Mild Disabilities. Together with the listed co-requisites, this course is designed to meet the requirements of House Bill 671. Candidates seeking certification must earn a "B" or higher in this course.

Prerequisite(s): Admission to Teacher Education Program.

Corequisite(s): SPED 3131, SPED 3134.

SPED 3131 Assessment in Special Education**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

This course is designed to provide an overview of a variety of assessment techniques, including observations, teacher-made test, criterion referenced assessments, and standardized evaluation tools for use in identifying and developing programs for individuals with special learning needs. Special emphasis will be placed on interpreting assessment results for instructional planning.

Prerequisite(s): Admission to Teacher Education Program.

Corequisite(s): SPED 3134.

SPED 3133 Methodologies of Inclusive P-5 Settings**3 Credit Hours. 3 Lecture Hours. 2 Lab Hours.**

This course is designed to examine: (a) research-based methods for curriculum and instruction in an inclusive classroom, (b) differentiated instruction, (c) instructional curricular adaptations, and (d) collaboration for individuals with age-level learning abilities as well as those individuals with mild disabilities, preschool through grade 5. This course includes a field component.

Corequisite(s): SPED 3131, SPED 3134, SPED 3331.

SPED 3134 Special Education Procedures**3 Credit Hours. 2 Lecture Hours. 2 Lab Hours.**

Designed to provide knowledge about litigation and legislation affecting Special Education and the procedures associated with pre-referral, assessment, placement, and instruction of children with special needs. The development of eligibility reports, Individual Education Plans, and Transition Plans are included in course content.

Prerequisite(s): Admission to Teacher Education Program.

Corequisite(s): SPED 3131.

SPED 3231 Classroom Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to initiate the preservice teacher in the basic procedures for classroom management with an emphasis on developing teacher candidates' abilities to meet the needs of a diverse population, including English Language Learners and students with disabilities in the P-5 and/or 6-12 classroom. Emphasis is placed on the understanding and development of skills in the following areas: Positive Behavior Intervention and Supports (PBIS), data-based behavioral management, including several theoretical paradigms and research-based effective instructional management.

Prerequisite(s): A minimum grade of "C" in SPED 4733.

SPED 3331 Introduction to Special Education for Elementary Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to examine: (a) the characteristics of students with disabilities, (b) the educational and legal implications for working with students with disabilities and other special learning needs, (c) collaborating with other professionals to meet the needs of all students, (d) strategies for successful inclusion, and (e) instructional and curricular adaptations. Candidates seeking certification must earn a "B" or better in this course.

SPED 3332 Introduction to SPED in Middle and Secondary Grades**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to examine the etiology, diagnosis, characteristics, effective teaching strategies, and philosophical, educational, and legal implications of the full range of students who demonstrate a need for additional educational services in order to achieve full potential. Candidates seeking certification must earn a "B" or better in this course.

Prerequisite(s): Admission to Teacher Education Program and a minimum grade of "C" and prior or concurrent enrollment in MGED 3731.

SPED 3333 Introduction to Special Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to examine the etiology, diagnosis, characteristics, effective teaching strategies, and philosophical, educational, and legal implications of the full range of students who demonstrate a need for additional educational services in order to achieve full potential. Candidates seeking certification must earn a "B" or better in this course.

Prerequisite(s): Admission to Teacher Education Program.

SPED 3631 Inclusive Practices**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to focus on best practices for educating P-12 students with diverse learning needs in the general education classroom. Candidates will investigate significant legal and historical considerations related to inclusion, pedagogical and curricular issues, collaboration, best instructional practices, and current trends. This course includes a field component.

Corequisite(s): SPED 3231, SPED 4733, SPED 4734.

SPED 4090 Special Education Special Topics**3-12 Credit Hours. 3-12 Lecture Hours. 0 Lab Hours.**

Designed to provide additional specialized field-based experience or remedial coursework as needed to meet the needs of preservice teachers. Attention will be focused on providing opportunities for strengthening skills necessary to special education teachers.

Prerequisite(s): Approval of advisor, instructor, and department chair.

SPED 4230 Instructional and Behavior Management Methods, P-5
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide preservice candidates with practical methods for planning and managing group and individualized instruction in all curriculum areas for individuals with mild disabilities, preschool through grade 5. It includes review, demonstration, and preparation of programs, methods, and materials for such instruction in both general and special education classrooms. The course is part of the Special Education Block experience and includes a field component.

Corequisite(s): SPED 4733.

SPED 4231 Instructional and Behavior Management Methods, 6-12
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide preservice candidates with practical methods for planning and managing group and individualized instruction in all curriculum areas for individuals with mild disabilities, grades 6 through 12. It includes review, demonstration, and preparation of programs, methods, and materials for such instruction in both regular and special education classrooms. Instruction in methods for transitioning is one of the primary foci of this course. The course is part of the Special Education Block experience.

Prerequisite(s): A minimum grade of "C" in SPED 4230 and SPED 4733.

SPED 4333 Special Education Math Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to prepare the special education teacher candidates to teach mathematics. An emphasis is placed on instructional strategies, assessments, technology, materials, co-teaching, accommodations and evidence based practices to make mathematics learning meaningful and appropriate for students with disabilities.

Prerequisite(s): Admission to the Teacher Education Program.

SPED 4430 Family, Community and Professional Collaboration
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This seminar is designed to provide preservice teachers with knowledge of effective communication skills and to present models of consultation and collaboration for use in family, community, and professional relationships. The models are applied to working with families, teachers and other community professionals involved in the provision of services to students with disabilities.

Corequisite(s): SPED 5799.

SPED 4632 Special Education Student Teaching Seminar
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

In the Special Education Student Teaching Seminar course, students will analyze issues related to diverse school populations, classroom/behavior management, technology integration, and school law. Special emphasis will be placed on instructional settings, strategies, and services for diverse populations and school law in the public schools.

Prerequisite(s): A minimum grade of "C" in SPED 3231 and SPED 4231 and SPED 4734.

Corequisite(s): SPED 5799.

SPED 4733 SPED P-5 Practicum
3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This practicum course will provide an opportunity for preservice candidates to work within diverse P-5 classrooms to practice instructional and classroom management skills. In addition to special education classrooms, students may be placed in inclusionary settings and/or classrooms for students identified as being "at-risk" learners. The course is part of the Special Education Block experience.

Prerequisite(s): A minimum grade of "C" in READ 4131.

Corequisite(s): SPED 4230.

SPED 4734 SPED 6-12 Practicum

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This practicum course will provide an opportunity for preservice candidates to work within diverse classrooms, grades 6 through 12, to practice instructional and classroom management skills. In addition to special education classrooms, students may be placed in inclusionary settings and/or classrooms for students identified as being "at-risk" learners. The course is part of the Special Education Block experience.

Corequisite(s): SPED 3231, SPED 4231.

SPED 4740 Internship I

3 Credit Hours. 1 Lecture Hour. 1-12 Lab Hours.

Directed field experience with students with disabilities.

Prerequisite(s): STAT 1401 or MATH 1401.

SPED 4799 Student Teaching in Special Education
9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Student teaching is a period of guided teaching practice. Under the direction of a clinical supervisor, candidates gradually assume increasing responsibility for classroom instruction and management. During this experience, candidates are expected to engage directly in many of the activities which constitute the wide range of a teacher's responsibility.

Corequisite(s): SPED 4632.

SPED 5031 PreK and Kindergarteners with Disabilities Methods
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide teacher candidates with the practical skills and techniques for working with preschool children with disabilities and their families with respect to cultural and linguistic differences in a variety of settings. Content includes curriculum models, intervention strategies, service delivery models, technology applications and design of family-directed, culturally sensitive individual education plans (IEP). Course requirements include 45 hours of field experience.

Prerequisite(s): A minimum grade of "C" in SPED 3331 and CHFD 3131.

SPED 5799 Student Teaching in Special Education
9 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Student teaching is a period of guided teaching practice. Under the direction of a clinical supervisor, candidates gradually assume increasing responsibility for classroom instruction and management. During this experience, candidates are expected to engage directly in many of the activities which constitute the wide range of a teacher's responsibility.

Corequisite(s): SPED 4632.

SPED 6130 Introduction to Special Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Designed to examine the etiology, incidence, diagnosis, characteristics and philosophical and educational implications of the full range of students who demonstrate a need for additional educational services in order to achieve full potential. It is a

prerequisite to Master's level coursework in Special Education and meets the educational requirements mandated by H.B. 671. Candidates seeking certification must earn a "B" or better in this course.

SPED 6230 Assessment and Procedures in Special Education
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide graduate students with **prerequisite** skills in procedures, and assessment in Special Education. More specifically, this course provides a review of a variety of assessment techniques, including observations, teacher-made tests, criterion referenced assessments, curriculum-based assessment, and standardized evaluation tools for program planning purposes for individuals with special learning needs. In addition, this course provides knowledge about legislative requirements and the procedures associated with assessment, placement, and instruction of students with disabilities.

Prerequisite(s): A minimum grade of "C" in SPED 6130.

SPED 6231 Special Education Laws and Procedures**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides knowledge about legislative requirements and the procedures associated with assessment, placement, and instruction of children with special needs. Individual Education Plans, eligibility reports, and transition plans are designed within the current legal and legislative context of special education.

SPED 6330 Classroom Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide graduate students with **prerequisite** skills in classroom management and procedures. More specifically, this course provides an overview of basic procedures for instructional and behavior management of students with disabilities. In addition, this course provides knowledge about legislative requirements and the procedures associated with instructional and behavioral management. Also included in this course is a review of a variety of assessment techniques including observation, interviews, and other informal assessment techniques for use with individuals with disabilities.

Prerequisite(s): A minimum grade of "C" in SPED 6130.**SPED 6332 Remediation and Supports for Students with Disabilities in Mathematics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to prepare the special education teacher candidates to teach mathematics. An emphasis is placed on instructional strategies, assessments, technology, materials, co-teaching, accommodations and evidence based practices to make mathematics learning meaningful and appropriate for students with disabilities.

SPED 6766 Student Teaching: SPED**6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Student teaching is a period of guided teaching practice. Under the direction of a clinical supervisor, candidates gradually assume increasing responsibility for classroom instruction and management. During this experience, candidates are expected to engage directly in many of the activities which constitute the wide range of a teacher's responsibility.

Prerequisite(s): SPED 7632.**SPED 7090 Selected Topics in Special Education****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

Designed to promote specialized training in new and/or emerging topics related to the preparation of practitioners in the field of special education. Attention will be given to a range of special needs as they reach special significance in local systems.

Prerequisite(s): Permission of instructor.**SPED 7133 Collaboration Across the Life Span****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An in-depth examination of the issues confronted by individuals with disabilities and their families across the life span is provided. The consultative and collaborative skills necessary to work with students with disabilities, parents, student services personnel, and community agencies across the life span are taught. Emphasis is placed on planning and implementing transitions at all stages.

SPED 7136 Language Development**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Provides a review of the types and causes of language problems found in exceptional child populations. Provides instruction and demonstration in diagnostic and developmental/remedial techniques in the area of speech/language.

SPED 7333 Special Education Leadership**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Aligned with Council for Exceptional Student Advanced Preparation Standards this course will prepare practicing teachers to represent special education issues and serve on school and district leadership teams. Course content will focus on developing special education leadership knowledge and skills in the areas of special education policy, advocacy, collaboration, conflict resolution, ethics, and continuous program evaluation.

SPED 7334 Advanced Behavior Management**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced Behavior Management is designed to present an array of research-based strategies and techniques for strengthening appropriate behaviors and reducing challenging behaviors in students at the school-wide, classroom, and individual levels. Both the theoretical foundations of behavior and behavioral interventions, as well as the actual "how to" apply the strategies for effective behavior management will be addressed. Candidates will gain an understanding of how both undesirable behaviors and desirable behaviors are directly related to the contexts in which they occur; the functions that undesirable behaviors serve for students; and how to best use this information to design effective preventative and management interventions for use in the classroom. Relevant federal and state legislation and ethical considerations will be discussed.

SPED 7335 Instructional Approaches in Special Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course takes a deep dive into the pedagogical practices suitable for teaching diverse populations of P-12 students with high incidence disabilities in general curriculum settings across varying modes of instruction (face-to-face, hybrid, and fully online). CEC High Leverage Practices, evidence based strategies, intensive interventions, Universal Design for Learning principles, and culturally relevant pedagogies are integrated throughout to provide specially designed instruction for today's diverse learners.

SPED 7411 Assistive Technology for Students with Disabilities**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an overview of a wide range of forms of assistive technology including switches, computer use and adaptations, and communication devices. Provides opportunities for candidates to develop devices for use in meeting the needs of students with physical and sensory disabilities.

SPED 7448 Augmentative and Alternative Communication for Students with Multiple/Severe Disabilities**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of devices and systems used to meet the communication needs of students with multiple and severe disabilities.

SPED 7630 Seminar in Special Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Requires students to address a series of topics central to current research and practice in Special education as they relate to a specific area of disability. Students will be required to prepare for and lead class discussion on a topic of their choice.

Prerequisite(s): Completion of 30 hours in MED program.**SPED 7631 Perspectives on Mild Disabilities****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide graduate students with a review of the characteristics of students with mild disabilities and the implications for their education and development. In addition, graduate students will reflect on the inter- and intra- individual differences which define the uniqueness of students with mild disabilities. Course content will integrate legal and social issues related to the instruction of students with mild disabilities.

SPED 7632 Methods for Mild Disabilities**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide graduate students with skills in social and learning methods for students with mild disabilities. More specifically, this course provides an overview of basic methodology for academic and social instruction for students with disabilities. In addition, this course provides knowledge about the identification and implementation of a variety of teaching methodologies appropriate for learners with mild disabilities.

Prerequisite(s): A minimum grade of "C" in SPED 7631.

SPED 7633 Introduction to Augmentative Language**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is an introduction to Augmentative Language and is designed to develop conversational signing skills at the beginning level. Candidates will develop expressive and receptive sign skills, and learn the manual alphabet, numbers, and sign vocabulary. Other topics include grammar, history, fingerspelling, terminology, and Deaf culture.

SPED 7634 Characteristics and Assessment of Low Incidence Populations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide the graduate candidate with an introduction to the characteristics and assessment of students with moderate to severe disabilities in low incidence categories including intellectual disability, sensory impairments, physical disabilities, multiple disabilities, chronic health impairments, autism, and traumatic brain injury. Historical and philosophical perspectives of programs related to students with moderate to severe disabilities using a life-span approach will be explored. Positive behavioral support strategies will be introduced. Developmentally appropriate formal and informal assessment will be addressed. In addition, this course will include reflection on multicultural, diversity, technology, employment and community living issues facing this population of individuals with disabilities.

SPED 7635 Methods for Low Incidence Populations**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide students with practical techniques of structuring group and individualized instruction in all curriculum areas for individuals with moderate to severe disabilities. It includes review, demonstration, and preparation of programs, methods, and materials for such instruction, with special emphasis on application of the diagnostic-prescriptive process.

Prerequisite(s): A minimum grade of "C" in SPED 7634.

SPED 7736 Internship in SPED General Curriculum**3 Credit Hours. 0 Lecture Hours. 10 Lab Hours.**

This field-based internship involves the implementation of prescriptive methods for teaching students with disabilities at the mild level working on the general curriculum. Interns must complete 150 contact hours in a P-12 classroom serving students with the categorical focus identified in the student's program of study.

Corequisite(s): SPED 7632.

SPED 7766 Internship in Special Education**6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This field-based internship involves the implementation of prescriptive methods for teaching students with mild disabilities. Interns must complete contact hours in a P-12 classroom serving students with mild disabilities.

Prerequisite(s): A minimum grade of "B" in SPED 7632 and SPED 7635.

SPED 8130 Administration in Special Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to develop the skills necessary to organize, house, equip, staff, supervise, and provide specialized educational environments and services for children with disabilities.

SPED 8131 Critical Issues in Special Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will identify and address a series of critical issues in special education from the standpoint of how such issues impact on the practice of education in their classroom, school, and system. Historical and current research will be reviewed as they relate to identified issues. Discussions of methods for addressing such issues within the context of the public schools will be a major focus of the course.

SPED 8410 Career Development and Transition Planning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will focus on understanding legal and procedural issues in interventions at the systems level of transition, including the following: identification of exemplary transition practices, issues in transition policies, dropout prevention issues, the vocational service system, ecological transition models, inclusive transition models of transition, self-determination and family involvement models, and continuous evaluation and improvement of transition services.

SPED 8411 Vocational Assessment of Special Education Students**3 Credit Hours. 3 Lecture Hours. 1-35 Lab Hours.**

Provides students with the knowledge and skills to select, administer, and interpret instruments which sample vocational interests, aptitudes, and development. Emphasis is placed on the evaluation of students with disabilities and others at-risk of school failure. Field-based experience required.

SPED 8412 Interagency Planning and Service for Transition to Adulthood**3 Credit Hours. 3 Lecture Hours. 1-35 Lab Hours.**

Emphasis is placed on theory and practice related to interagency collaboration, systems change efforts in transition services, and state-of-art practices regarding supporting individuals with disabilities in community employment, living, socialization, community participation, and other areas of adult life. Covers specific federal and state mandates concerning transition planning and collaboration with agencies in the community for assisting students as they move through the P-12 educational experience and on to post-secondary education and/or training.

Prerequisite(s): A minimum grade of "B" in SPED 8410 and SPED 8411.

SPED 8413 Community Based Instruction**3 Credit Hours. 3 Lecture Hours. 1-35 Lab Hours.**

The course explores the use of appropriate community environments, methods for linking community based instruction, and methodology for preparing students with multiple and severe disabilities for adulthood. Emphasis is placed upon theory and practice related to career development, job development, facilitating natural supports on the job, job partnerships, and school and community vocational training models.

Prerequisite(s): A minimum grade of "B" in SPED 8410 and SPED 8411.

SPED 8531 Nature and Needs of Students with Autism**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide graduate students with an examination of the psychological, communicative, social, and behavioral characteristics of individuals who have been diagnosed with autism. Focus on history, trends and practices, identification, and services will also be included.

SPED 8532 Implementing Evidence Based Practices in Teaching Students with Autism Spectrum Disorder**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide graduate students with methods and strategies for planning and instructing utilizing evidence-based practices for students with autism spectrum disorders (ASD). More specifically, this course provides an overview of basic methodology for specialized instruction with an emphasis on using applied behavior analysis to teach academic, functional life skills, adaptive behavior, communication, and social skills for students with ASD. In addition, this course will include functional behavior assessment and positive behavior support as foundations for implementing appropriate behavioral interventions.

SPED 8533 Assessment and Procedures for Students with Autism Spectrum Disorder**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is designed to provide graduate students with assessment and instructional procedures for working with individuals with autism spectrum disorder. Screening, diagnostic tools, educational assessments, ongoing progress monitoring, and program evaluation will be reviewed. The role of family in regards to the assessment process will also be discussed. In addition, transition planning will be highlighted. Field experience is embedded into the course through observation and assessment of individuals with ASD and interviews with family members.

SPED 8838 Qualitative/Applied Behavioral Analysis Research**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Designed to provide an in-depth study of the methodology involved in qualitative and ABA research. Provides students with a foundation of skills which will allow them to conduct research independently. In addition, a major goal of this course is to facilitate the development of critical thinking skills which will enable students to make reflective decisions within their professional domain.

Prerequisite(s): A minimum grade of "C" in EDUR 8131.**SPED 8890 Directed Individual Study****1-3 Credit Hours. 1-3 Lecture Hours. 0 Lab Hours.**

The student will propose and carry out an applied or theoretical project in Special Education.

Prerequisite(s): Permission of program faculty.

STAT Statistics

STAT 5130G Sampling and Survey Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the design and analysis of sample surveys suitable for students in business, social sciences, and biological sciences in addition to the mathematical sciences. Comparison of simple random sampling, stratified, systemic, cluster and multistage sampling. Emphasis on appropriate sample type and estimation of parameters. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require a higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in STAT 1401 or MATH 1401.**Cross Listing(s):** STAT 5130.**STAT 5531G Statistical Methods I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is the first of a two course sequence in applied statistics. The material covered will provide an introduction to statistical concepts and terminology while focusing on descriptive and inferential methods of data analysis. Topics include descriptive statistics, parameter estimation, tests of significance, confidence intervals, analysis of variance, simple linear regression and correlation, and resampling methods including bootstrapping. Both parametric and nonparametric methods are presented for the analysis of central tendency, variability, proportions and categorical data. Graduate students will be required to complete advanced level assignments in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in MATH 3337.**Cross Listing(s):** STAT 5531.**STAT 5532G Statistical Methods II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This is the second of a two course sequence in applied statistics. The material covered will provide an introduction to the ideas of linear models and experimental design while focusing on methods of data analysis using regression and analysis of variance. Topics include multiple regression analysis, analysis of variance with multiple classification, analysis of covariance, repeated measures analysis of variance, multiple comparison techniques, and diagnostic procedures and transformations. Suitable for students in business administration, economics, and the social, health and biological sciences. Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in STAT 5531.**Cross Listing(s):** STAT 5532.**STAT 5660G Statistical Data Analytics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will apply concepts learned in diverse areas of mathematics to data analysis. Topics include clustering and classification, data cleaning, text analysis and document similarities, frequent itemsets and association rules, neural networks, support vector machines, and decision trees.

This class has a primary focus on the underlying mathematical theory, with a secondary focus on application. Students will be introduced to R and RStudio for data storage, manipulation, and visualization.

Graduate students will complete assignments beyond the scope of the undergraduate requirements. These assignments require higher-level mastery of the subject matter and additional deliverables representative of graduate-level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in the following: MATH 2160, MATH 2243, and at least one of MATH 3337 or STAT 5531.**Cross Listing(s):** STAT 5660, MATH 5660, MATH 5660G.**STAT 7090 Selected Topics in Statistics****1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

Selected study in a selected area of Statistics.

Prerequisite(s): Completion of STAT 5531 or STAT 5531G.**STAT 7130 Applied Multivariate Statistical Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Estimating and inference from the multivariate normal distribution, Hotelling's T², multivariate analysis of variance, multivariate regression, multivariate experimental design, principle component analysis, factor analysis, discriminate analysis and cluster analysis.

Prerequisite(s): Completion of STAT 5531 or STAT 5531G.**STAT 7132 Applied Nonparametric Statistics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Review of probability and statistical inference; binomial, quantile and sign tests; contingency tables; methods based on ranks.

Prerequisite(s): Completion of STAT 5531 or STAT 5531G.**STAT 7134 Applied Regression Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Simple and multiple linear regression, model selection, residual analysis, influence diagnostics, transformation of data to fit assumptions, multicollinearity and an introduction to nonlinear regression.

Prerequisite(s): Completion of STAT 5531 or STAT 5531G.**STAT 7135 Analysis of Discrete Data****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The study of discrete univariate and multivariate distributions and generating functions, two-way and higher dimensional contingency tables, chi-squared and other goodness-of-fit tests, Cochran-Mantel-Hanzel procedure, binary and multinomial response models, log-linear models, theoretical foundations for the generalized linear models, mixed generalized linear models, longitudinal and spatial data analysis.

Prerequisite(s): Completion of STAT 7331 and STAT 5531, with a minimum grade of "C".

STAT 7231 Design of Experiments I**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Various statistically designed experiments are introduced including randomized blocks designs, Latin squares, incomplete block designs, factorial and fractional factorial designs with and without confounding and nested designs.

Prerequisite(s): Completion of STAT 5531 or STAT 5531G.**STAT 7232 Design of Experiments II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Response surface methodology is introduced. First- and second-order models and designs are studied which includes determining optimum conditions and methods of estimating response surfaces. Multiresponse experiments, nonlinear response surface models, and mixture designs are also studied.

Prerequisite(s): Completion of STAT 7231.**STAT 7234 Statistical Process Control****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Philosophy of statistical process control is studied along with SPC techniques of control charts, process-capability, designed experiments and acceptance sampling.

Prerequisite(s): Completion of STAT 5531 or STAT 5531G.**STAT 7331 Mathematical Statistics I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Random variables, density functions, mathematical expectation, discrete and continuous distributions, moments and moment-generating functions and limiting distributions.

Prerequisite(s): Completion of MATH 2242 and MATH 3337.**STAT 7332 Mathematical Statistics II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Rigorous introduction/development of interval estimation, test of significance, comparison of "k" means, randomized block design, multiple comparison procedures, nonparametric test and linear regression. The general linear model will be introduced.

Prerequisite(s): Completion of STAT 7331.**STAT 7430 Actuarial Mathematics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Survival distributions and life tables, life insurance, life annuities, net premiums, multiple life functions, multiple decrement models, valuation theory for pension plans, collective risk models, population theory and theory of pension funding.

Prerequisite(s): Completion of STAT 7331.**STAT 7432 Applied Stochastic Processes****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Poisson process, renewal theory, Markov chains, Brownian motion, random walks and Martingales and stochastic order relations.

Prerequisite(s): A minimum grade of "C" in STAT 7331.**STAT 7434 Applied Time Series Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Basic ideas of stochastic model building techniques with applications are discussed. Properties of the autocorrelation function and the spectrum of stationary processes are investigated. Models studied include the linear stationary ARMA and linear non-stationary ARIMA models along with forecasting models.

Prerequisite(s): Completion of STAT 7331.**STAT 7436 Reliability Analysis****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Probabilistic models for the reliability of coherent systems, statistical models for lifetimes of components and repairable systems, including the nonhomogeneous Poisson process, reliability estimation and prediction, MIL standards and accelerated life testing.

Prerequisite(s): Completion of STAT 7331.**STAT 7530 Statistical Computing I****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Basic computer organization and computer arithmetic are investigated. Programming languages and statistical software packages are explored. Methods for approximating cumulative distribution function and percentage points of a probability distribution are studied including nonparametric procedures. Multiple comparison procedures are also examined. Random number generation and statistical tests for testing random number generators are explored.

Prerequisite(s): Completion of STAT 7331.**STAT 7532 Statistical Computing II****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Various computational methods in linear algebra as applied to such statistical methods as multiple linear regression, designed experiments, multivariate analysis and the general linear model. Further topics include computational methods for unconstrained optimization, nonlinear regression and model fitting based on criteria other than least squares.

Prerequisite(s): Completion of STAT 5532 or STAT 5532G and STAT 7331.**STAT 7610 Graduate Seminar****1 Credit Hour. 1 Lecture Hour. 0 Lab Hours.**

Students will research topics related to their major/concentration, under supervision of one or more faculty members. Each student will present results on topics of interest to the class on new developments in mathematical sciences, or on his/her research project. Faculty members also may present lectures for the benefit of the students. Course may be repeated up to a maximum of 3 credit hours to be counted toward the M.S. in Mathematics.

Cross Listing(s): MATH 7610.**STAT 7890 Directed Study in Statistics****1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

Directed study under faculty supervision.

Prerequisite(s): Permission of instructor and Department Chair.**STAT 7895 Research****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Graduate students will conduct a program of independent research under the direction of a thesis advisor or an advisory committee on a topic in Statistics. Results of the research will be presented as a thesis in MATH 7999 for partial fulfillment of the requirement of the Master of Science Degree in Mathematics with an emphasis in Statistics.

STAT 7899 Research Project in Statistics**1-6 Credit Hours. 1-6 Lecture Hours. 0-4 Lab Hours.**

Research project addressed toward a real world problem.

Prerequisite(s): Permission of project advisor and Department Chair required.

TCLD Teach Cult Ling Div Stdnt

TCLD 6231 Cultural Diversity and ESOL/TCLD**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An introduction to the major theories and research related to the nature and role of culture in classroom instruction. Students will gain and demonstrate understanding of how cultural groups and individual cultural identities contribute to language and literacy development and school achievement.

TCLD 6233 Applied Linguistics for ESOL/TCLD**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The course will address the major theories of first and second language development. The course will examine structures and systems of English and other languages. The course will investigate critical sociocultural perspectives on language in use. All course elements will be applied to community and classroom learning contexts.

Cross Listing(s): LING 5131, LING 5131G, TCLD 4233.

TCLD 6235 Methods for Teaching ESOL/TCLD**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will address current second language acquisition theory and its application to curriculum development and instructional strategies. Participants in this course will design curriculum and learning activities that facilitate the use of English as an additional language in listening, speaking, reading, and writing across multiple grade levels and content areas. In addition, participants will develop strategies for integrating school, neighborhood, and home resources to further the education of English learners.

Prerequisite(s): A minimum grade of "C" in TCLD 4231 or TCLD 6231, TCLD 4233 or TCLD 6233.

TCLD 7334 Language Policy and Politics in Education**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will examine the intersection of ideologies and politics of language with language education planning, policy, and implementation. The course will present a wide array of historical, international, and national perspectives on language politics, policy, and education and guide students to apply those perspectives to understand contemporary state, community, school, and classroom realities and possibilities.

TCLD 7336 Globalization, Immigration, and Teaching ELLs**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will examine how immigration patterns have contributed to the diversification of students in the United States, particularly the Southeastern United States, the challenges posed by this changing student body, and best practices in teaching and learning within this environment.

TCLD 7338 Special Education-ELL Interface & Assessment**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide an overview of assessment, best practices, and education as they relate to culturally and linguistically diverse students with and without disabilities. Emphasis is placed on assessment issues as they relate to English Language Learners.

TCLD 8538 Advanced ELL & Bilingual Teaching Methods**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will discuss a variety of advanced ESOL methods based in recent research. The course will enhance awareness of culturally and linguistically diverse students' strengths and needs, and consider the best ways to incorporate these into the process of ESOL curriculum design and implementation. Course participants will evaluate and critically examine a wide range of ESOL instructional methods and materials, strategies, and design instructional units that emphasize techniques and strategies for developing all modes of language. Course participants will develop a deeper understanding of second language acquisition theories and become familiar with the range of bilingual program models. Course participants will enhance their ability to apply their knowledge of language acquisition and ESOL methods to promote the development of communicative language skills and literacy in English among ELLs.

TCM Construction Management

TCM 5330G Green Building and Sustainable Construction**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course is a study of advanced topics in green construction beginning with the philosophy behind sustainability related technology and its implementation. The course provides a thorough expansion on LEED (Leadership in Energy and Environmental Design) core concepts including construction and design for sustainable sites, water efficiency, energy & atmosphere, materials & resources, indoor environmental quality and innovation and design. The course also examines sustainable construction methodologies and their associated environmental impacts. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Cross Listing(s): TCM 5330.

TCM 5333G Building Information Modeling**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course is an introduction to building information modeling (BIM). It highlights the strength of BIM in promoting productivity and profitability in civil engineering and construction. Topics include the history of information modeling technology and its impacts on civil engineering and construction; popular software applications and basic modeling techniques; and implementation of BIM authoring and analysis tools for project delivery. Emphasis is placed on hands-on modeling techniques, and problem-solving using modern BIM technologies. Graduate students will be required to complete additional advanced level study beyond the scope of the undergraduate requirements of the course, demonstrating a higher level of mastery of the subject matter and including additional deliverables as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in TCM 1232 or ENGR 1133 or CENG 1133.

Cross Listing(s): TCM 5333.

TCM 5431G Construction Cost Estimating**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course includes methods and procedures for estimating costs of construction projects. Topics include types and purposes of estimates, direct and indirect costs, labor and equipment cost analysis, the CSI Masterformat, approximate estimates, and computerized estimating methods. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in TCM 3330 and TCM 3331 or CENG 3135 or permission of instructor.

Cross Listing(s): TCM 5431.

TCM 5433G Project Planning and Scheduling**3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.**

This course covers the fundamentals and techniques of planning and scheduling for construction projects. Topics include bar charts, Critical Path Method using both arrow and node networks, precedence networks, cost-time trade-offs, PERT, resource leveling, updating schedules during construction, project control, earned value method, lean construction principles and practices, and computerized scheduling techniques. Graduate students will be required to complete individual advanced level research in an area beyond the scope of the undergraduate requirements that demonstrates a higher level of mastery in the subject matter with additional required deliverables representative of graduate level work, as determined by the instructor.

Prerequisite(s): A minimum grade of "C" in TCM 1231 and STAT 1401 or permission of instructor.

Cross Listing(s): TCM 5433.

TFG Technology-Fort Gordon

TFG 7531 Telecommunication Systems

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course will provide students the ability to design a secure voice and data network for subscribers. A systems approach will be used to study telecommunications networks for the understanding of the function of individual components and subsystems. Attention will be given to the theory of different existing and emerging technologies. Students will receive an overview of public and private telecommunications systems, fundamentals of traffic engineering, switching, transmission, and signaling. Emphasis will be placed on the function of discrete components as well as complete systems.

TFG 7532 Network Operations and Management

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines the management tools and software applications needed to manage the variety of local and wide area networks. The course will address data communication devices, telecommunication devices, simple network management protocol, remote monitoring, telecommunication management, and network operation and security.

TFG 7533 Network Security

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an in-depth study of network Security. Students will gain a respect for the threats and vulnerabilities facing U.S. voice and data networks and learn how networks are protected through organizational policy, software application, methodologies, and equipment. Topics discussed are: cryptography, Public Key Infrastructure (PKI), Internet Protocol Security (IPSEC), IP and bulk encryption, firewalls, intrusion detection systems, Certification and accreditation processes.

TFG 7534 Network Design

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course examines a structured, systematic, top-down process to design telecommunications networks. Some specific objectives are: students will understand the structured network design process, the logical and physical design process for access, distribution and core networks and the planning processes for host/network security and management.

TGET Engineering Tech - Grad

TGET 7134 Construction Planning and Administration

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

An in-depth treatment of the process of developing capital construction projects from the point of conception through the preliminary planning and budgeting to final design, contract or selection, and finished construction of the desired end product.

THEA Theatre

THEA 5530G Playwriting

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course involves the study, analysis, and practice in the art and craft of writing plays for the stage. Undergraduates complete a one act play while graduate students complete a first draft for a full length play.

Prerequisite(s): A minimum grade of "C" in THEA 2300 or permission of instructor.

Cross Listing(s): THEA 5530.

TMAE Applied Engineering

TMAE 5131G Essentials of Applied Mechanical Engineering

3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.

This is a course for students with no mechanical engineering experience. The principles of engineering mechanics are developed from a work/energy point of view. Survey topics include a review of the fundamentals of mechanics, elastic behavior of materials, stress-strain relationships and measurements, elasticity theory, stability, dynamics, and vibration theory. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): Permission of department (should not be taken by graduate students with a B.S. in Mechanical Engineering).

Cross Listing(s): TMAE 5131.

TMAE 5132G Essentials of Applied Electrical Engineering

3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.

This is a course for students with no electrical engineering experience. Survey topics include electrical energy sources, DC circuits, resistive networks, network theorems, inductance, capacitance, natural and step responses of RL, RC, and RLC circuit, sinusoidal steady state analysis, Three-phase circuits, computer circuit analysis, non-linear, active components such as diodes, transistors (both bipolar and MOSFET), and operational amplifiers. Graduate students will be required to complete a case study or other individualized advanced activity that undergraduate students will not be required to complete.

Prerequisite(s): Permission of department (should not be taken by graduate students with a B.S. in Electrical Engineering).

Cross Listing(s): TMAE 5132.

TMAE 5133G Production Planning and Facilities Design

3 Credit Hours. 3 Lecture Hours. 1 Lab Hour.

The methods used to plan and control the efficient and effective use of equipment, tooling, people, materials, and other resources to manufacture products. This will lead to the examination of the fundamental theories, practices, and methods for the design of manufacturing and service facilities to enable productive flow of goods and services. Emphasis is placed on applied exercises utilizing spreadsheet and CAD software that culminates in a semester project. Graduate students will be required to complete a case study, or research project not required of undergraduate students.

Prerequisite(s): MENG 3333 or permission of department.

Cross Listing(s): TMAE 5133.

TMAE 5139G Renewable Energy

3 Credit Hours. 0,2 Lecture Hours. 0,2 Lab Hours.

The design, operation, and environmental and socio-economic impact of renewable energy systems will be presented with an engineering emphasis. Additionally, cycle evaluation and analysis of the renewable energy systems, the efficiency and power output of renewable energy systems, their benefits and costs will be determined. Graduate students will be required to complete an additional design project that involves a class presentation with a more advanced technical analysis.

Prerequisite(s): A minimum grade of "C" in MENG 3233 or permission of department.

Cross Listing(s): TMAE 5139, MENG 5139, MENG 5139G.

TMAE 5890G Selected Topics in Applied Engineering

1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.

This course is scheduled on an infrequent basis to explore special areas in applied engineering. Graduate students will be required to complete a case study or research project not required of undergraduate students.

Prerequisite(s): Permission of department.

Cross Listing(s): TMAE 5890.

TMAE 7136 Mechatronics I**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is designed to build a working familiarity with the electronics and techniques needed in the design and control of electro-mechanical systems. The topics in this course include integrated use of mechanical, electrical, and computer systems for control of machines and devices, system modeling, sensors and actuators, basic electronics design, signal processing, grounding, and interfacing techniques.

Prerequisite(s): TMAE 5131 or TMAE 5132 or permission of department.

Cross Listing(s): MENG 7136.

TMAE 7137 Mechatronics II**3 Credit Hours. 2 Lecture Hours. 3 Lab Hours.**

This course is designed to provide further fundamental information to understand the fusion of mechanical engineering, electrical engineering, and computer data acquisition/programming and their relationship to the field of Mechatronics. This course emphasizes the interfacing of microcomputers with sensors and actuators, hybrid (analog/digital) design, digital logic and analog circuitry, micro-computer architecture, assembly language programming, signal conditioning, filters, analog-to-digital and digital-to-analog conversion, and the interface of data acquisition systems with the control process.

Prerequisite(s): A minimum grade of "C" in TMAE 7136 or permission of department.

Cross Listing(s): MENG 7138.

TMAE 7237 Mathematical Control Theory**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

State-space techniques from modern control system theory. Topics include realization theory for MIMO systems, state-space techniques for feedback control, closed loop observer design, and state-space techniques in optimal control.

Prerequisite(s): A minimum grade of "C" in MATH 3230 and MATH 5336G.

TMAE 7330 Advanced Electromagnetics Advanced Electromagnetics**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course introduces fundamental concepts of wave propagation, polarization, radiation from sources, guided waves, transmission lines, smith charts, and numerical calculation techniques such as Finite-Difference Time-Domain (FDTD) method. The course includes research project activities.

Prerequisite(s): A minimum grade of "C" in EENG 3230 or Permission of Instructor.

TMAE 7331 Advanced Digital Signal Processing**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course discusses advanced topics in digital signal processing such as implementation of discrete-time systems, design of FIR/IIR digital filters, sampling and reconstruction of signals, multi-rate digital signal processing, linear prediction and optimum linear filters, and power spectrum estimation.

Prerequisite(s): A minimum grade of "C" in ENGR 2341 or Permission of Instructor.

TMAE 7332 Digital Control Systems Digital Control Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An understanding of the elements of digital control theory will be developed. Students will be introduced to discrete system modeling, sampled data systems, z-transforms, state-space system representation and discrete control designs. Advance topics include Neural Networks and Fuzzy Logic application to control and the use of software tools that can be used to design and analyze this kind of systems. Students will also develop practical applications of digital control systems.

Prerequisite(s): A minimum grade of "C" in EENG 5431 or MENG 5536 or Permission of Instructor.

TMAE 7430 Industrial Case Study Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The systems approach and case study format are utilized for the resolution of current technical management problems of various industries. Problem solving methods are presented, discussed, and utilized in student activities.

TMAE 7431 Advanced Quality Control**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of modern philosophies, methodologies, and technologies for quality control and improvement with emphasis on total quality management, statistical process control, quality improvement methods, and acceptance sampling.

TMAE 7432 Advanced Engineering Economy**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Consideration of probability and risk effects on estimates, selection of the minimum, attractive rate of return, capital rationing among competing projects, and economic analysis in government.

TMAE 7433 Facilities Planning**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An organized approach for planning a facility that achieves facilities location and design objectives, including how the activity's tangible assets best support achieving the activity's objectives. It is a composite of facilities location and facilities design with the approach based on the engineering design process. Techniques can be applied equally for non-manufacturing applications.

TMAE 7434 Product Lifecycle Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will provide a holistic overview of the product lifecycle starting with idea conceptualization and ending with environment conscious product disposal. The cradle to grave design concept will be emphasized throughout this course. A related area of emphasis will be product demand forecasting and facilities design. Several aspects such as design review, Quality Function Deployment, trend extrapolation, statistical techniques, product functionality and usability will also be included.

Prerequisite(s): A minimum grade of "C" in TMAE 7431.

TMAE 7435 Manufacturing Systems Analysis**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the analysis of manufacturing systems, systems analysis and problem solving in manufacturing. The tools of systems analysis will be used to formulate the real problems of manufacturing, identify where computer systems can help, and solve challenging manufacturing systems problems.

TMAE 7530 Research in Applied Engineering**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of modern research methods and their application to the preparation of the thesis and technical reports.

Cross Listing(s): MENG 7530.

TMAE 7531 Technical Management and Leadership**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study in the application of modern technical management and leadership principles in the Engineering and Information Technology disciplines. The course focuses on the process of obtaining, deploying, and utilizing a variety of essential resources that contribute to the effective and efficient operation of technical organizations in dynamic and competitive environments.

TMAE 7532 Global Technology**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

An examination of the developments in engineering, technology, and industry worldwide and the effects upon international relations.

TMAE 7890 Selected Topics in Applied Engineering**1-3 Credit Hours. 1-3 Lecture Hours. 0-2 Lab Hours.**

This course is scheduled on an infrequent basis to explore special areas of applied engineering.

Cross Listing(s): TMAE 7890.

TMAE 7891 Independent Study**1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Independent study is available for students to undertake individualized experimentation, research, study related to applied engineering, or a capstone project. The specific topic will be approved by a faculty member in the program, and credit will be assigned commensurate with the magnitude of the study.

Cross Listing(s): MENG 7891.**TMAE 7895 Special Problems in Applied Engineering****1-3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Individual and specialized study in the areas of applied engineering not otherwise covered in the program. Students must submit a proposal of the special problem for approval by the faculty member of record. Credit will be assigned commensurate with the magnitude of the study.

Cross Listing(s): MENG 7895.**TMAE 7999 Thesis****1-6 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

This course focuses on the preparation and completion of the thesis.

TMFG Manufacturing Technology

TMFG 5133G Automated Manufacturing Systems**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Computer Integrated Manufacturing (CIM) concentrating on advanced computer numerical control machining, and the interface of robotics systems in manufacturing. Experiences using programming techniques, production equipment simulations and rapid prototyping are emphasized. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): ENGR 1133.**Cross Listing(s):** TMFG 5133.**TMFG 5233G Manufacturing Applications in Information Technology****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A senior level seminar emphasizing the application of commercially available software to solve manufacturing production problems. Topics include Theory of Constraints, Failure Mode and Effect Analysis, Flow Charting, and Project Management. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): TMFG 5233.

TSEC Safety and Environ Compl

TSEC 5331G Occupational Safety**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The technical aspects of developing and implementing occupational safety programs in manufacturing industries. Emphasis on hazard identification and control. Topics include: OSHA compliance, accident investigation, fire protection, machine guarding, noise abatement, and electrical safety. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): TSEC 5331.**TSEC 5332G Ergonomics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The human machine interface in manufacturing industries as it relates to the well-being of workers and efficiency of production systems. The application of human factors from both physiological and psychological perspectives are examined. Emphasis is placed on regulatory compliance. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): TSEC 5332.**TSEC 5334G Hazardous Waste Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of hazardous waste substances as they are created by various industries and their proper management by combining planning, organizing, and controlling techniques with a knowledge of generating, storing, transporting, treating, recycling and disposing of hazardous materials. Issues of environmental impact, regulatory compliance, ethics, and program management are discussed from a technical management perspective. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): TSEC 5334.**TSEC 5335G Systems Safety in Manufacturing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A study of the application of systems safety concepts to manufacturing and production systems. Emphasis is placed on the critical analysis of systems through modeling and the development of control strategies to reduce the frequency and severity of industrial accidents. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): TSEC 5335.**TSEC 5336G Environmental Law****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A course designed to provide an introduction and overview (for those without legal or specific scientific training) of the system through which our nation attempts to preserve the environment. The U.S. legal system, national, and international environmental policy is reviewed. Emphasis is placed on the control of air quality, water quality, toxic substances, and hazardous releases as it relates to environmental regulation of industry. Graduate students will be required to complete an additional project or assignment in addition to the undergraduate course requirements.

Cross Listing(s): TSEC 5336.

TSLE North Georgia-Franchise

TSLE 7250 Applied Linguistics for the Bilingual/ESL Teacher**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students receive an overview of the principles of language structure, the processes of first and second acquisition, and the issues involved in assessing language proficiency with special attention paid to the application of linguistic knowledge to the multilingual school setting. Restricted to Georgia On My Line students.

TSLE 7260 Cultural Issues for Bilingual/ESL Teacher**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

Students examine the concept of culture and study cultural influences and the uses of culture in the education of children. Special attention is paid to the application of linguistic and cultural knowledge to the multilingual and multicultural school setting. Restricted to Georgia On My Line students.

TSLE 7440 Meth & Mat for Bil/Eng ESL Tch**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

WGSS Womens Gender Sexuality

WLST Web Legal Studies

WLST 7230 Current Legal Issues**3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.**

An introduction to legal and ethical issues involving primary legal authorities in the contexts of commercial law, employment, government regulation, and business ethics. Emphasis is on recognition of these issues to enhance professionalism for business administration.

Prerequisite(s): A minimum grade of "C" in LSTD 2106 and admitted to the Masters of Accounting program, or permission of the School of Accountancy director.

WMAC Web Masters of Accounting

WMAC 7130 Seminar in Financial Accounting 3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A study of business combinations, consolidation of financial statements of affiliated companies, multinational operations, foreign currency transactions, translation of foreign currency financial statements, reporting disaggregated information, and interim financial statements.

Prerequisite(s): A minimum grade of "C" in ACCT 4133 and admission to the WebMAcc program or permission of the School of Accountancy director.

WMAC 7330 Taxation of Corporations and Partnerships 3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

A study of the laws involving the formation, operation, and liquidation of corporations, S corporations, and partnerships.

Prerequisite(s): A minimum grade of "C" in ACCT 3330 and admission to the WebMAcc program or permission of the School of Accountancy Director.

WMAC 7331 Taxation of Pass Through Entities 3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

The federal income taxation of pass-through entities, including partnerships (LLC), S corporations, and trusts and estates. The income tax aspects of each of these entities are examined with regard to formation, operation, allocation of income among owners (or beneficiaries), distributions and liquidation.

Prerequisite(s): A minimum grade of "C" in WMAC 7330, or concurrent enrollment in WMAC 7330, and admission to the WebMAcc program, or permission of the School of Accountancy director.

WMAC 7334 Tax Research

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Application of research techniques to income tax and other tax planning; case studies and reports. This course provides the student with the opportunity to analyze, critique, and do practical tax research. Emphasis is placed on research methodology rather than on technical or legal knowledge of the tax law.

Prerequisite(s): A minimum grade of "C" in ACCT 3330 and admission to the WebMAcc program or permission of the School of Accountancy director.

WMAC 7430 Seminar in Auditing

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Advanced topics in external auditing related to engagement planning, risk assessment, audit procedures and the gathering of evidence, and concluding and reporting on the audit

Prerequisite(s): A minimum grade of "C" in ACCT 4430 and admission to the WebMAcc program or permission of the School of Accountancy director.

WMAC 7530 Seminar in Accounting Information Systems

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Develops an understanding and appreciation for the design, analysis, development and implementation of computer-based accounting information systems with an emphasis of control and management issues of this accounting function. Practical application will be examined throughout computer projects and systems' cases.

Prerequisite(s): A minimum grade of "C" in ACCT 4130 and admission to the WebMAcc program or permission of the School of Accountancy director.

WMAC 7634 Fraudulent Financial Reporting

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

Training in financial statement fraud is needed due to the technical nature of accounting and reporting standards. This course demonstrates how financial statement analysis can be used to uncover fraudulent financial reporting. In addition, the most common methods for "cooking the books" will be examined along with strategies for detecting and investigating such schemes.

Prerequisite(s): A minimum grade of "C" in ACCT 4133 and admission to the WebMAcc program or permission of the School of Accountancy director.

WMAC 7638 Business Valuation

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This class focuses on determining the fair values of individual tangible and intangible assets as well as the overall value of a business and includes calculating fair values for financial reporting. The three valuation approaches (Market Approach, Income Approach, and Asset Approach) are covered in depth along with the professional standards, developing the cost of capital, and applying valuation adjustments (discounts and premiums).

Prerequisite(s): Admission to the WebMAcc program or permission of the School of Accountancy Director.

WMAC 7839 Special Topics in Accounting

3 Credit Hours. 0 Lecture Hours. 0 Lab Hours.

This course is designed to offer students an opportunity to pursue studies at a level or on topics not covered in existing graduate courses. The scope and nature of the material is determined in consultation with the faculty sponsor.

Prerequisite(s): Admission to the WebMAcc program or permission of the School of Accountancy Director.

WMBA Web MBA

WMBA 6000 Human Behavior in Organizations

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course provides an overview of existing theories and models of human behavior in organizations. Using readings, cases, discussion, and guest speakers, the course explains the importance of leadership, motivation, power and influence in organizational life. Special emphasis is placed on leadership for change.

Prerequisite(s): Students must be enrolled in online MBA program.

WMBA 6010 Managerial Accounting

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of management accounting and control information. This course shows how to make pricing and product mix decisions, how to improve existing activities and processes, how to measure performance in decentralized operating units, and how to align organizational activities with long-term strategic objectives, both in a domestic and international setting.

Prerequisite(s): Students must be enrolled in online MBA program.

WMBA 6030 Global and International Business

3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course presents fundamental considerations for managers of international trade operations. This course is designed to provide graduate level skills in the management functions of global strategic planning, international organizing, leading expatriates and diverse cultures, and controlling the global organization.

Prerequisite(s): Students must be enrolled in online MBA program.

WMBA 6040 Managerial Decision Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to expose students to the types of decision making situations they will face as managers. It will introduce students to advanced quantitative concepts and state-of-the-art techniques. By the end of the course students will be expected to be able to analyze a problem statement, develop alternative solution procedures, and select the one that most successful solutions to business problems require the ability to integrate concepts from non-quantitative fields with the quantitative results.

Prerequisite(s): Students must be enrolled in online MBA program.

WMBA 6050 Strategic Marketing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A strategy planning approach to marketing management from conception and application perspectives. Focus is on the strategic decision-making process supported by self-analysis and external analysis. Legal, ethical and international aspects are also considered.

Prerequisite(s): Students must be enrolled in online MBA program.

WMBA 6060 Managerial Finance
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of financial risk and return, capital budgeting, valuation, capital structure, working capital management and current topics in financial management.

Prerequisite(s): Students must be enrolled in online MBA program.

WMBA 6070 Entrepreneurship-New Venture Analysis
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the business formation process which focuses on the creativity, risk-taking, and planning associated with new ventures. The course will provide information on the entrepreneurial process starting with idea generation, idea development, feasibility analysis, resource identification, and concluding with the development of a coherent business plan.

Prerequisite(s): Students must be enrolled in online MBA program.

WMBA 6080 Management Information Systems
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on information technology and systems from a general management perspective. Topics of discussion include the management of the systems development process, the organizational cycle of information, technology planning, evaluation, selection, and strategic uses of information technology.

Prerequisite(s): Students must be enrolled in online MBA program.

WMBA 6100 Operations and Supply Chain Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course is designed to provide an understanding of the production/operations function within an organization. It will focus on the types of decisions to be made at various organizational levels and where appropriate, on particular models and quantitative techniques that can be useful in making those decisions. Emphasis will be placed on how those decisions are interrelated and on their strategic implications for the firm. Finally, it will consider how the operations function fits in with other functional areas of the firm.

Prerequisite(s): Student must be enrolled in online MBA program.

WMBA 6110 Business Strategy
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

This course focuses on global strategic management and encourages the analysis and development of business strategies within a global environment.

Prerequisite(s): A minimum grade of "C" in WMBA 6010 and WMBA 6050 and WMBA 6060.

WRIT Writing

WRIT 5030G Selected Topics in Writing
1-6 Credit Hours. 1-6 Lecture Hours. 0 Lab Hours.

A course on particular topics in rhetoric and composition, the teaching of writing, English as a Second Language, linguistics, and creative writing not covered by other courses. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): WRIT 5030.

WRIT 5130G Modern English Grammar
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the system of rules of word formation and sentence construction that we unconsciously employ in our daily use of the English language. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): WRIT 5130, LING 5130, LING 5130G.

WRIT 5231G Advanced Screenwriting
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Within a workshop and critique setting, students will work through the stages of feature screenplay writing. The course will focus on more advanced techniques, structure, and development of character and plot in long format through feature writing assignments. Graduate students will be required to engage in advanced level research and writing, beyond the scope of undergraduate requirements, as determined by the course instructor.

Cross Listing(s): WRIT 5231.

WRIT 5250G Advanced Technical Writing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A required course for all Writing and Linguistics majors in the professional and technical communication area. This course offers study in technical communication topics relevant to the profession, such as usability, freelancing, document analysis, ethics, medical writing, or rhetoric of science and technology. Graduate students will complete an additional assignment determined by the instructor.

Cross Listing(s): WRIT 5250.

WRIT 5330G Rhetoric
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

Rhetoric from Aristotle to the present, with emphasis on rhetorical analysis of texts and other forms of discourse.

Cross Listing(s): WRIT 5330.

WRIT 5340G History of the English Language
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A study of the English language from linguistic, social, and historical perspectives. Graduate students will prepare and present a research topic on a class concept and will receive quizzes that are more detailed and cover more complex aspects of linguistics.

Cross Listing(s): WRIT 5340, LING 5340, LING 5340G, ENGL 5320, ENGL 5320G.

WRIT 5430G Advanced Poetry Writing
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.

A creative writing workshop which focuses primarily on the students' own poems. The course deepens and expands the poetry writing skills and knowledge developed in lower-level creative writing workshops. Students will read and discuss poetry by established writers, evaluate their work and the work of their peers and produce a portfolio. Graduate students will be required to engage in advanced level research and writing, beyond the scope of undergraduate requirements, as determined by the course instructor.

Cross Listing(s): WRIT 5430.

WRIT 5510G Writing for the Nonprofit Sector**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Techniques for writing for local and national nonprofit organizations. Possible service learning component.

Cross Listing(s): WRIT 5510.**WRIT 5520G Writing for Publication****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course prepares students for writing for publication in a digital age. Students are encouraged to pursue various areas of research and interests as they learn how to locate suitable venues for publication, write query letters to publishers, format manuscripts for submission, and deal with revision and editing in today's technological environment. Graduate students will be expected to do an extra project.

Cross Listing(s): WRIT 5520.**WRIT 5530G Sociolinguistics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The principles and methods used to study language as a sociocultural phenomenon. These are examined both from the linguistic viewpoint and the social scientific viewpoint. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): WRIT 5530, LING 5530, LING 5530G.**WRIT 5531G Advanced Creative Nonfiction Writing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A creative writing workshop which focuses primarily on the students' own creative nonfiction. The course deepens and expands the writing skills and knowledge learned in undergraduate expository writing courses. Students read and discuss creative nonfiction by established writers, evaluate their work and the work of their peers, and produce a portfolio. Graduate students will be required to engage in advanced level research and writing, beyond the scope of undergraduate requirements, as determined by the course instructor.

Cross Listing(s): WRIT 5531.**WRIT 5532G Writing Flash Prose****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A creative writing workshop in which students study and write short prose forms such as the short-short story, brief creative nonfiction, and prose poetry. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Prerequisite(s): A minimum grade of "C" in WRIT 3130, or permission of instructor.**Cross Listing(s):** WRIT 5532.**WRIT 5533G Teaching College Composition****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Students will learn foundational theories and pedagogies for teaching college-level writing, including writing assessment, teaching for transfer, and community-oriented pedagogies. Students will apply their learning to designing and evaluating college level writing activities and assignments. Graduate students will be given additional assignments not required of undergraduate students.

Cross Listing(s): WRIT 5533.**WRIT 5535G Intellectual Property****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course provides an introduction and general overview of fundamental aspects of intellectual property. Students will learn about such topics as the history of copyright laws, fair use, and the public domain. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): WRIT 5535.**WRIT 5550G Publication Design****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Techniques for preparing documents from development to publication.

Cross Listing(s): WRIT 5550.**WRIT 5560G Advanced Fiction Writing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

A creative writing workshop which focuses primarily on the students' own fiction. The course deepens and expands the fiction writing skills and knowledge developed in lower-level creative writing workshops. Students will read and discuss fiction by established writers, evaluate their work and the work of their peers, and produce a portfolio. Graduate students will be required to engage in advanced level research and writing, beyond the scope of undergraduate requirements, as determined by the course instructor.

Cross Listing(s): WRIT 5560.**WRIT 5570G Advanced Writing, Rhetoric, and Culture****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This graduate level course further explores the interaction of writing, rhetoric, and cultural studies, focusing on the theoretical bases for analyses of power and meaning in production, texts, and reception. Course content includes anti-racist, feminist, queer, transnational, or sociocultural frameworks, as well as applied multimodal and genre theories. This advanced course also includes a specialized module where students will prepare for high-level academic research, including conference presentations and publication. Graduate students will produce an extra advanced project from this course.

Prerequisite(s): Graduate status or permission of instructor.**Cross Listing(s):** WRIT 5570.**WRIT 5580G Social Media Management****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Analyzes the meanings and implications of social media on reading and writing as well as explores the relationship between an organization's technologies of writing and cultural narratives of identity, subjectivity, and agency to build effective user experiences. Graduate students will be given an extra assignment determined by the instructor that undergraduates will not be required to do.

Cross Listing(s): WRIT 5580.**WRIT 6030 Selected Topics in Writing and Linguistics****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This graduate level course will cover special topics related to writing, rhetoric, technical communication, and visual rhetoric. Topics may include science writing, environmental rhetorics, information design, multimodal writing, digital authoring and publishing, and risk communication.

Prerequisite(s): Graduate status or permission of instructor.**WRIT 6110 Managing Digital Documents****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course will offer students the opportunity to shape text for different multimedia environments, from traditional websites to the constraints of smart phone applications. Students will explore the writing challenges at stake in the midst of existing (and changing) online publication venues and digital social networking framings.

Prerequisite(s): Graduate status or permission of instructor.**WRIT 6133 Usability and User Experience****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course focuses on usability research methods and testing, and theories of usability in professional and technical writing. Students will be introduced to user-centered design, participatory design, and user experience approaches to user research and usability practices.

Prerequisite(s): Graduate status or permission of instructor.**WRIT 7100 Professional Communication Strategies****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Advanced professional communication strategies employed by leaders in business, industry, education, and health professions, including strategies to improve and refine workplace communication processes, practices, and workflows.

WRIT 7110 Applied Ethics in Professional and Technical Communication**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Training in professional ethics in the workplace.

Prerequisite(s): Graduate status or permission of instructor.**WRIT 7120 Rhetorics of Health and Medicine****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

This course examines how rhetoric shapes thinking and decision-making about health and medicine, with particular emphasis on how rhetorical theories can inform the design of effective communication in these contexts.

Prerequisite(s): Graduate status or permission of instructor.**WRIT 7250 Plain Language in Workplace Writing****3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

Introduction to the principles of plain language in workplace communication. Students will analyze document design, edit at the word-, sentence-, and paragraph-level, and apply user-centered principles. Students will examine the history of plain language movements and understand the social impacts of plain language in legal, medical, scientific, and professional contexts. Students will produce documents in plain language for specific audiences.

WRIT 7620 Writing Project**3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.**

The intensive teachers-teaching-teachers course, based on the Bay Area Writing Project, incorporates teaching of writing, researching learning methods/theories, personal writing, and presenting workshops using writing-to-learn activities. Collaborative and individual exercises will emphasize writing across the curriculum, which supports required student learning outcomes. Because the content (readings, activities, workshops) changes each year, this invitational institute can be taken more than once.

Resources

- Academic Success Center (p. 540)
- Division of Continuing Education (p. 541)
- Institutional Assessment and Accreditation (p. 541)
- James H. Oliver, Jr., Institute for Coastal Plain Science (p. 541)
- Military and Veteran Services (p. 542)
- Office of Career and Professional Development (p. 542)
- Office of Research Services and Sponsored Programs (p. 542)
- Online Support Services (p. 543)
- Printing & Postal Services (p. 543)
- Regents Center for Learning Disorders (p. 544)
- Student Accessibility Resource Center (p. 544)
- Student Union Facilities and Event Services (p. 544)
- Sustainable Aquaponics Research Center (p. 544)
- The University Writing Center (p. 545)
- Visual Art Exhibitions and Permanent Collections (p. 545)

Academic Success Center

The Academic Success Center (ASC) is dedicated to providing academic support for all students by fostering a positive academic mindset, knowledge of resources, and belonging within the university community. Towards this purpose, the ASC offers student-centered services in tutoring, mentoring, testing, success coaching, consultations, and workshops. While the ASC is available for all students, services are also focused on the needs of adult-learners, first-generation students, students on academic intervention, and students in the Learning Support program.

For more information about the ASC, call (912) 478-5371 or check the Center's website at georgiasouthern.edu/success (<https://academics.georgiasouthern.edu/success/>). The Statesboro Campus office

is located in Henderson Library, Suite 1303. The Armstrong Campus office is located in PAC Building 120.

The ASC is part of the Division of Academic Affairs and reports to the Office of the Provost.

Academic Intervention

Undergraduate students who are on academic intervention, per university policy, are required to create and implement an Academic Improvement Plan under the guidance of an assigned Success Coach. Success Coaches meet with students one-on-one and in a group setting through a 0-credit hour course – GSU 1000: Academic Improvement Coaching. See the Academic Intervention Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/academic-intervention-policy/>) for more information.

Mentor Program

The Mentor Program welcomes any first or second year student to join at any point in the semester. Peer Mentors and mentees meet weekly to discuss a variety of topics, including goal setting, major and career exploration, establishing good habits for academic achievement and personal wellness, access to tools and resources, and social connections to the campus community.

Learn more about the Mentor Program at the ASC website at academics.georgiasouthern.edu/success/peer-mentor-program/ (<https://academics.georgiasouthern.edu/success/peer-mentor-program/>).

Tutoring Services

On the Statesboro and Armstrong Campuses, the ASC offers free tutoring by appointment and walk-in for a variety of math, science and humanities courses. Online tutoring by appointment is available for all three campuses. The tutors are recommended by professors in their subject areas and are trained, supervised, and evaluated by the ASC staff. The Center has two full-time coordinators and faculty consultants from the Academic Success Center who work with tutors in the implementation of the program.

Check for tutoring schedules and other information on the website at academics.georgiasouthern.edu/success/tutoring/ ([http://academics.georgiasouthern.edu/success/tutoring/](https://academics.georgiasouthern.edu/success/tutoring/)).

Tutoring is also offered by other departments. The ASC website does provide information about tutoring offered by other units as the information is made available.

Testing Office

Another component of the Academic Success Center is the Office of Testing Services with locations on the Statesboro and Savannah (Armstrong) Campuses. The Office of Testing Services provides services to students, non-students and community members within the surrounding communities. Both testing offices administer examinations including ACCUPLACER, CLEP Exams, DSST Exams, Georgia Assessments for the Certification of Educators (GACE), Graduate Record Exam – Subject Test (GRE-Subject), HESI A2-Nursing entrance exam, Institutional ACT Exam (ACT-Residual), E-Core exams, Legislative Exemption Exams, American Council for Exercise Exams (ACE), BOC Athletic Training Exam, and the Miller Analogies Test (MAT).

The Statesboro Campus Testing Office further administers Board Certification for Counseling, Microsoft Certification Exams, and the TOEFL Exams. The Savannah Campus Testing Office additionally administers the PAN Assessment exams, Major Field Exams, MAPP, and the TEAS-Allied Health Exams. The Statesboro Campus Testing Office is a Certified Testing Center for the certification exams administered through Certiport, ISO Quality Testing, and Kryterion certification exams. Both Testing

Offices for the Statesboro and Savannah Campuses are Certified Testing Centers for Scantron certification exams.

Contact

Persons interested in further information concerning dates, times, cost, eligibility and sign-up procedures can contact the Statesboro Campus Testing Office at (912) 478-5415, located at Cone Hall Room 2004, or by email at testing@georgiasouthern.edu. To contact the Savannah Campus Testing Office located in the Memorial College Center Building, Room 206B, call (912) 344-2582, or email testingsav@georgiasouthern.edu. The informational web page for both Testing Offices is at academics.georgiasouthern.edu/success/testing/ (<http://academics.georgiasouthern.edu/success/testing/>).

Division of Continuing Education

The mission of the Division of Continuing Education is to support Georgia Southern University's commitment to extending the learning environment beyond the classroom to the communities it serves, promoting lifelong success by delivering multi-modal, multi-site and empowering opportunities for the individual. We provide a variety of non-credit courses and programs, from personal enrichment and professional development to customized workforce training and more. Whether it's the arts, academics or preparation for lifelong success, our courses focus on hands-on learning taught by Georgia Southern faculty and other subject matter experts. Our offerings are available online and in-person, designed to meet various cultural and generational learning needs and provide traditional and non-traditional learners with the flexibility needed to maintain a work-life balance.

The Division also provides technologically advanced meeting, classroom, event and conference services in Statesboro, Hinesville and Savannah. Seasoned in managing educational programs that are local, regional, national and international, the Division of Continuing Education has the ability to manage the entire life cycle of a conference or special event. We have the venues and resources to suit all conferences and event types in a unique and personal setting. From inception to post-event evaluations, we work diligently to guarantee every aspect is exactly what you envision.

Our broad range of services, offered to both the regional and campus communities, include:

- **Career Training Programs:** provides online open enrollment programs designed to provide the skills necessary to acquire professional level positions for many in-demand occupations;
- **Conference Planning Services:** includes venue sourcing and contract negotiation to include audio-visual, food and beverage, CEU application coordination, financial and registration services, marketing, the arrangement and management of hotel room blocks and lodging, and customizable planning packages; includes the invitation of speakers, issuing of call for proposals, processing of honorarium payments, preparation of speaker bios, poster and presentation session management; offers recruitment of sponsors and exhibitors based on program criteria, processing for exhibitor and sponsor information, confirmation and registration, and coordination of exhibit space;
- **Continuing Education Units (CEUs) and Certificates:** includes services for the completion and submission of applications to appropriate credentialing bodies as well as the coordination of the CEU process;
- **Customized Training:** develops training programs by analyzing, designing and implementing training solutions that meet the needs of the organization or business. Training solutions can be delivered onsite or on any Georgia Southern University campus.
- **Event Management:** operates as the central entry point for meeting and event requests on the Statesboro and Armstrong campuses; coordinates events and meetings for both internal and external clients;

- **Personal Enrichment:** provides face-to-face and online lifelong learning programs and experiences that allow for the exploration and development of new interests and skills for personal growth;
- **Professional Development:** provides face-to-face and online programs in high-demand fields to improve knowledge and skills to enhance and advance career development. Programs may lead to certifications and digital badges.
- **Youth Programs:** coordinates facilities and services on the Statesboro and Savannah Campuses for both internal and external groups.

Institutional Assessment and Accreditation

Institutional Assessment and Accreditation supports student learning through coordination of ongoing assessment of academic programs and core courses. IAA works in collaboration with faculty to develop assignments, assessment methods, and documentation processes to effectively track and improve student learning. In addition, IAA works with administrative units to ensure a high quality student experience across all areas of the institution. IAA also compiles documentation and evidence supplied to SACSCOC to satisfy regional accreditation requirements. IAA models and encourages engagement of students, employers, alumni, faculty, and staff in these processes. Additional information is available at IAA's website at academics.georgiasouthern.edu/vpie/index.php (<https://academics.georgiasouthern.edu/vpie/>).

James H. Oliver, Jr., Institute for Coastal Plain Science

The Institute for Coastal Plain Science facilitates studies focused on the fertile world of Georgia's Coastal Plain, which covers the southern and southeastern half of the state. This environmental region provides researchers with a living laboratory, where forests, rivers, marshes, swamps and beaches abound with life.

The mission of the ICPS is two-fold: 1) to promote, in coordination with public and private partnerships, interdisciplinary research and education directed toward understanding the physical and biological resources occurring in the region and their sustainable use and management, and 2) to enhance curation of the extensive natural history collections and promote their use as research and education tools. In fulfilling its mission the ICPS partners with diverse entities such as the Nature Conservancy, Skidaway Institute of Oceanography, Gray's Reef National Marine Sanctuary and the University of Georgia Marine Extension Service, which provides collaborative opportunities for researchers and students.

Applied Coastal Research Laboratory (ACRL) (<http://cosm.georgiasouthern.edu/icps/acrl/>)

The ICPS partners with the ACRL, a field laboratory located on Skidaway Island near Savannah, Georgia. The ACRL provides laboratory space and logistical support to research teams. Our logistical support includes access to nearby research sites (including hammocks, marshes and barrier islands); access to coastal/offshore research via large and small research boats; geophysical and ecological field sampling/monitoring equipment; and a full array of Geographic Information Systems (GIS) capabilities. The ACRL also works to gain grant funding for faculty and student research and collaborates with state and local agencies, and non-profit foundations.

U.S. National Tick Collection (USNTC) (<https://cosm.georgiasouthern.edu/usntc/>)

The ICPS is also home to the USNTC. With over 125,000 accessioned lots, over one million specimens, their associated data, and an extensive

library (reprints, monographs, and books), the USNTC is one of the largest curated tick collections in the world, if not the largest.

Military and Veteran Services

Georgia Southern recognizes that military-affiliated students often face challenging obstacles in the pursuit of a college degree. As part of the University's ongoing commitment to providing educational opportunities to the military population, in the Spring of 2019 Georgia Southern created the office of Military and Veterans Services. The office provides a comprehensive military and veteran-friendly education support program that engages military-affiliated students from admissions to career placement to help them pursue and achieve their academic and professional goals.

Military Resource Center

In collaboration with a variety of University departments and organizations, the Military Resource Center (MRC) provides assistance, connection, camaraderie, coordinated services, and resources to ensure that all military-connected students are afforded the greatest opportunities for success. Members of our military community will experience individually tailored support of the highest quality through the MRC. Students can get information about the application and admissions process, education benefits, and prior learning assessments to determine credit for military training. MRCs provide access to computers, a resource library, peer-to-peer mentoring and tutoring programs, referrals to other campus and community resources, and information about the Student Veterans of America Chapters at each campus. The Centers at Armstrong and Statesboro have lounges known as "The Eagles Nest" that provide a designated space for military-affiliated students to network, study, and relax. The lounges include a kitchenette and social space that has couches, books, magazines, a television, movies and video game consoles. The MRC at the Statesboro Campus is located in the Russell Student Union and the Center at the Armstrong Campus can be found in Victor Hall, Room 148.

Georgia Southern encourages all veterans to take advantage of college credit that may be granted for military training, as well as the credit by examination programs. Veterans requesting college credit for military training must provide Military and Veteran Affairs with an official military transcript for evaluation. For more information please visit our web page at <https://www.georgiasouthern.edu/military-veterans/>

School Certifying Officials

The U.S. Department of Veterans Affairs (DVA) provides educational benefits under several programs. Eligibility is determined by DVA. Veterans or dependents of certain veterans who wish to attend Georgia Southern University under any of the veterans' benefits programs should contact the School Certifying Officials for assistance at (912) 478-8043 (Statesboro Campus), (912) 344-2948 (Armstrong Campus), or (912) 877-1913 (Liberty Campus) or email mvs@georgiasouthern.edu. The School Certifying Officials are responsible for assisting veteran students with the processing of VA forms for educational benefits. Students will be advised of procedural requirements and certification of enrollment will be verified to DVA.

Veterans who have service-connected disabilities and are eligible for disability compensation may qualify for Vocational Rehabilitation. Disabled veterans who think they qualify for this assistance are encouraged to contact the Department of Veterans Administration for further information.

Office of Career and Professional Development

The Office of Career and Professional Development (OCPD) is committed to providing Georgia Southern University students and alumni with a broad range of personalized services to prepare them for professional success. As career advisors, the OCPD staff assists students with exploring majors, identifying career options, gaining related work experience, awarding non-credit "tuition free" co-op/internship hours, and providing guidance in their full-time professional job search strategies through four distinct areas: Career Advisement, Course Instruction, Experiential Learning, and Professional Employment. Career Advisement is designed to assist students in identifying academic majors and career options. Strategies include one-on-one or group career advising, career assessments, investigation of careers through a comprehensive collection of online information, as well as through the Major and Career Exploration Centers located on the Statesboro and Armstrong campuses. Opportunities for Experiential Learning are developed through the outreach efforts of the Employer Relations team, who proactively engage employer partners to create internship and co-op opportunities. Students are prepared for these experiences through mock interview training, résumé/cover letter critique assistance, and structured academic courses that focus on Emotional Intelligence development and professionalism in the workplace. Professional employment opportunities are available through the Handshake online job board and are open to all Georgia Southern University active students and alumni.

Experiential learning provides a valuable opportunity for students to acquire relevant work experience that will increase their marketability upon graduation. Internships and co-ops provide an opportunity for students to evaluate whether their chosen career path or field of study is a good fit for them, develop their professional skills, and apply their academic knowledge while obtaining valuable real-world experience in their field. The Office of Career and Professional Development at Georgia Southern University is committed to recruiting and promoting internship and co-op opportunities for all students and provides a centralized contact for all academic and non-academic related issues associated with experiential learning for all colleges and majors.

The OCPD professional staff advises and assists students in developing professional skills during their academic career so that they may complete an effective job search campaign prior to graduation. Workshops, class presentations, individual career advisement appointments, along with resources provided on the OCPD website, help prepare students in the areas of effective job search and networking strategies, cover letter and résumé development, interviewing techniques, negotiation strategies, and making the transition from college to the world of work. The department attracts a variety of industries and organizations to recruit Georgia Southern University students and alumni through résumé referrals, on-campus interviewing, and by allowing employers to post positions on Handshake. By participating in on-campus recruiting opportunities, students are able to network with potential employers from all industries to inquire about full-time employment upon graduation.

For more information, please visit the Office of Career and Professional Development website at [GeorgiaSouthern.edu/ocpd](https://www.georgiasouthern.edu/ocpd) or call (912) 478-5197.

Office of Research Services and Sponsored Programs

Research Services (<https://research.georgiasouthern.edu/orssp/>) (RS) supports the Georgia Southern University faculty, staff and students in the acquisition, performance and administration of projects and programs funded from sources external outside the University through research administration and service; research integrity and compliance; and award

management. Sponsored projects and programs include research, public service, instruction, and other scholarly activities funded by external organizations. Research Services provides research administration services in the areas of pre-award and non-financial post-award activities, and research integrity and compliance, working closely with Research Accounting to provide a full array of related services to the research community at Georgia Southern.

Pre-award research administration serves as the central point of coordination for grants and contractual obligations from individuals, foundations, government and public agencies; and industrial, financial and private organizations to support sponsored research and service activities at Georgia Southern University, offering identification and dissemination of funding opportunities; proposal development and editing services; project budget development; assistance with forms, guidelines and submission requirements; routing of proposals for institutional approval; proposal submission; contract and award negotiation; award acceptance and modification; materials transfer, data use and other contractual areas; project management assistance; and other areas as needed.

Post-award financial management services are provided by the **Office of Research Accounting** (under the Business and Finance division).

The Research Integrity (<https://research.georgiasouthern.edu/researchintegrity/>) (**RI**) office serves as the administrative home for research compliance, providing support and guidance to the Institutional Review Board for the Protection of Human Subjects (IRB), the Institutional Animal Care and Use Committee (IACUC), and the Institutional Biosafety Committee (IBC). The RI also administers the university processes for reviewing financial conflict of interest, and other areas of compliance as needed.

Research Services provides support for the Faculty Research Committee, a Faculty Senate committee which awards competitive internal research funding on an annual basis and selects recipients of the Faculty Excellence in Research awards.

The **Georgia Southern University Research and Service Foundation** (GSURSF) is a nonprofit partner organization that assists, supports, and furthers the research, service, and educational missions of Georgia Southern University. The Foundation functions in cooperation with the University to simplify business processes and other interactions between the private sector and the University. The Foundation manages intellectual property resources for the discovery, development and commercialization of new ideas and technologies. The GSURSF receives all incoming external awards and assigns the performance of sponsored research projects and service delivery programs to the University.

If you have any questions or for additional information please visit our website Research Services (<https://research.georgiasouthern.edu/orssp/>) or contact (912) 478-5465.

Online Support Services

MyTech Support

MyTech Support provides technology support for all students, faculty, and staff on Georgia Southern's three campuses. For online course support or any technology issues, please contact MyTech Support by calling (912) 478-2287. For online and in-person contact information, please visit its.georgiasouthern.edu/about/contact/ (<https://its.georgiasouthern.edu/about/contact/>).

Center for Online Learning (COL)

The COL provides technical and pedagogical training and support for faculty who develop online courses. For more information, call (912)

478-0049 or visit the COL website at: academics.georgiasouthern.edu/col/ (<http://academics.georgiasouthern.edu/col/>).

Online Programs at Georgia Southern University

For more information about online programs at Georgia Southern University, please see the following website: academics.georgiasouthern.edu/online/ (<http://academics.georgiasouthern.edu/online/>).

Printing & Postal Services

Printing and Postal Services is a university-owned and operated facility located in the Dining Commons building on the Statesboro campus and the Armstrong campus's Annex 2 building. These facilities provide mail pick up, delivery, posting and boxing, and window services for faculty, staff, and students. The second half of the Printing and Postal Services task list is to print course packs, class required name badges, printed projects, and any printed materials needed by the campus community.

Statesboro Campus:

All student mailboxes are located in the Dining Commons building. Post Office Boxes will be made available to all students living in University Housing. Once these boxes are assigned, the remaining Post Office Boxes will be made available to other students on a first-come, first-serve basis for one full academic year for a \$20.00 fee.

Non-University Housing students must go to the P.O. Box Store at auxiliary.georgiasouthern.edu/printingandpostal/postal-services/ (<http://auxiliary.georgiasouthern.edu/printingandpostal/postal-services/>) or the Printing and Postal Services counter in the Dining Commons building to purchase their box. After buying a P.O. Box, the student will be assigned a P.O. Box for the current year. The P.O. Box is accessed using three easy steps. First, log into my.georgiasouthern.edu (<http://my.georgiasouthern.edu/>) and click on WINGS. Next, click on the "Personal Information" tab, then click on "View P.O. Box combination" to view the combination and instructions on how to use the P.O. Box.

Armstrong Campus:

All residential students have mailboxes in their residence halls. Additionally, there are no P.O. Boxes available for rent by non-residential students.

Mail Forwarding:

On both campuses, students need to submit forwarding addresses for the following reasons:

- graduating
- withdrawing
- leaving for a semester
- completing a voluntary cancellation form

Each campus has different mail forwarding processes. Statesboro campus students can update forwarding addresses on their WINGS account. The Armstrong campus requires students to fill out a USPS Official Mail Forwarding Change of Address Order form. (PS FORM 3575) Printing and Postal Services at the Savannah campus will use the information to forward mail until the USPS form is processed.

Additionally, you will need to go online and submit a USPS Change of Address Form at <https://moversguide.usps.com> (<https://moversguide.usps.com/>)

If you forward your mail, your first-class mail and periodicals will be sent to your forwarding address.

If no forwarding address is on file, mail will be returned to the sender.

If you have any questions, call the Georgia Southern Printing and Postal Services at (912) 478-5697 on the Statesboro Campus and (912) 344-3036 on the Armstrong Campus. Visit our website at <http://auxiliary.georgiasouthern.edu/printingandpostal/postal-services/> for additional information.

Regents Center for Learning Disorders

The Regents Center for Learning Disorders (RCLD) at Georgia Southern University is one of three centers in Georgia established by the Board of Regents to provide assessments, resources, and research related to students with learning disorders. The Center serves students from GSU and seven additional institutions in the southern area of the state. Students with a history and/or those perceived as having learning disorders, ADHD, or psychological disorders may be referred by the enrolling institution's student accessibility office for a comprehensive assessment, feedback on appropriate academic accommodations, and recommendations for optimal educational achievement. These services are also provided to students within the local area technical colleges. Additionally, student access offices at any of the institutions served may consult with the Center regarding disability documentation and assessments performed by other professionals. Georgia Southern University students should first contact the Student Accessibility Resource Center on their campus (Statesboro: (912) 478-1566, Savannah & Liberty: (912) 344-2572), while students at other institutions should contact their own office for student accessibility for a referral to the RCLD. In addition to providing comprehensive evaluations for students, the RCLD collaborates with institutions on statewide policy development, provides programs and services for student access professionals and their students, and provides clinical training and research opportunities for graduate students in psychology and related programs at Georgia Southern. For further information please call (912) 478-0100, or visit academics.georgiasouthern.edu/rclid/ (<http://academics.georgiasouthern.edu/rclid/>).

Student Accessibility Resource Center

The Student Accessibility Resource Center (SARC) strives to assure equal access to all aspects of the college experience for students with disabilities through reasonable accommodations. A unit of Student Affairs, the Student Accessibility Resource Center supports both the Student Accessibility mission and the university's strategic plan by promoting and contributing to a university community centered on student learning and success. The SARC office staff is responsible for the coordination of all services for students with disabilities. Students with disabilities must meet all admission and academic standards. Services are provided to students at no cost. The disability categories we serve are: acquired brain injury, attention deficit disorder (ADD or AD/HD), autism spectrum disorder, communication disorders, hearing impairment, learning disabilities, mobility impairment, psychological disorders, systemic medical disabilities and visual impairment.

Students initiate services by completing the Voluntary Declaration of Disability (VDD) form (<https://students.georgiasouthern.edu/sarc/steps-for-receiving-services/>) located under the Receiving Services tab on our website. The VDD is returned to our office and the student meets with a SARC staff member and provides documentation of the disability. Academic accommodations are determined on an individual basis using USG specific documentation guidelines which can be found in the Academic and Student Affairs Handbook (https://www.usg.edu/academic_affairs_handbook/section3/C793/#pappendix_e_specific_documentation_guidelines). Once

documentation of the disability is approved, SARC will provide students with accommodation letters to share with their professors.

SARC is located on the second floor of Cone Hall on the Statesboro campus and the phone number is (912) 478-1566. SARC is located on the second floor of the Memorial College Center on the Savannah campus and serves Savannah and Liberty students; the phone number is (912) 344-2572. Our video phone number is (912) 225-9877.

Student Union Facilities and Event Services

The mission of Student Union Facilities and Event Services is to complement the educational mission of the University by providing an environment where students, faculty, staff, and guests can gather to participate and learn in an atmosphere that fosters a sense of community. Each of these spaces provides facilities, services, and support to programs that enhance the quality of out-of-class experiences.

Statesboro Campus

The Russell Union is located on the Statesboro campus and provides a multitude of event planning resources including facility reservations, audio visual services, and event consultation. The Russell Union also houses the following departments: The Office of the Dean of Students, The Office of Multicultural Affairs, Fraternity and Sorority Life, Office of Student Conduct, Military and Veteran Student Center, Russell Union Operations, Student Government Association, and the Office of Leadership and Community Engagement. Included in the 110,000 square foot Russell Union facility is a 600-seat ballroom, a 444-seat movie theatre/auditorium, wireless internet, 14 meeting rooms, two computer labs, Chick-fil-A, Starbucks, Gus Mart and Union Deli, an information center, a catering kitchen, and several areas throughout the building to study, relax, and exchange thoughts and ideas with faculty, staff, and fellow students. The Williams Center's Office of Student Activities and the Student Organization Resource Center is a resource for students, organizations, and advisors with helpful information on organizational development, event planning resources, and full-time staff to support your co-curricular needs. The Williams Center includes a Multi-purpose Room that holds over 400 people, 26-seat conference room, and multiple meeting and work spaces available to students, faculty, and staff. The Offices of Student Media, Career Services, and First Year Experience also reside within the Williams Center building.

Armstrong Campus

The Student Union on the Armstrong campus provides eating, gathering, and meeting space for the Armstrong campus community. A 650-seat ballroom as well as a 200-seat theater are available for presentations, events, and other gatherings. The facility also boasts a 5,700 sq. feet of bookstore, 300-seat food court style dining area along with a convenience store, ample and varied lounge spaces both indoor and outdoor, and meeting space. The Student Union houses the following departments: Student Government Association, Eagle Dining, Dean of Students Office, Student Activities, and other Student Affairs units aimed at getting students involved and supported.

Sustainable Aquaponics Research Center

The Sustainable Aquaponics Research Center (SARC) is a joint venture between Georgia Southern University and the FORAM Foundation. Our aquaponics system is located in an approximately 4100 square foot greenhouse, on the Armstrong campus, that supports student and faculty research in areas of Biology, Chemistry, Economics and Engineering.

Mission

To conduct cutting-edge research, and to develop technologies and best practices that improve the sustainability and profitability of soilless farming techniques.

The SARC facility is a state of the art system designed to research the economic and biological sustainability of aquaponics systems. SARC has four independent recirculating systems, each containing 900 gallon tanks capable of holding over 100 mature tilapia (1-2 lbs/each) and 224 square foot runways for growing plants. This proprietary system was uniquely built to conduct controlled scientific research. This allows the center to develop targeted experiments with the goal of improving the economic viability of large-scale aquaponics as a means of sustainable food growth requiring less resources and space.

<http://cosm.georgiasouthern.edu/sarc/>

The University Writing Center

The University Writing Center is open to all Georgia Southern students who want feedback on their writing or advice about how to become better writers. Staffed by graduate students and undergraduate peer tutors, the Writing Center offers one-on-one conferences to students working on writing projects for any course at any stage of the writing process. The Writing Center is an important resource for all student writers at all levels of ability. Tutors in the Writing Center can help writers to understand assignments, brainstorm ideas, organize information, and develop editing strategies. While the Writing Center staff will not proofread papers or do any of the actual writing for the students they work with, they will teach students effective ways to use evidence and detail, to anticipate and meet audience needs, and to streamline the structure of their arguments. Citation formats, document preparation, grammatical correctness, and stylistic fluency will also provide a focus for many writing center conferences.

Resources

- Individual, one-on-one conferences on writing projects
- Handouts on writing strategies and grammatical issues
- Handbooks, dictionaries, thesauruses, style guides
- Online and in-person conference appointments

Tutors are available to give short presentations about the Writing Center and its services in any class at any time during the semester.

Location and Hours

The University Writing Center (Statesboro Campus) is located on the second floor of Henderson Library next to the Information Desk and Learning Commons. One hour and half hour conferences, both in-person and online, are available Monday through Thursday, 9:00 a.m. - 7:00 p.m., and Friday, 9:00 a.m. - 3:00 p.m. Some Sunday hours are also available but vary by semester; check the appointment schedule for details. Appointments can be made on a walk-in basis or online at <http://georgiasouthern.mywconline.com>. For more information about the Writing Center (Statesboro Campus), please call (912) 478-1413, visit the Web site at <http://cah.georgiasouthern.edu/writing-center/> or contact the Director, Dr. Michael Pemberton, at michaelp@georgiasouthern.edu.

The University Writing Center (Armstrong Campus) is located on the first floor of Lane Library. One hour and half hour conferences, both in-person and online, are available Monday through Thursday, 9:00 a.m. - 5:00 p.m., and Friday, 9:00 a.m. - 12:00 p.m. Appointments can be made on a walk-in basis or by calling the center at (912) 344-3072. For more information about the Writing Center (Armstrong Campus), visit the Web site at <http://cah.georgiasouthern.edu/writing-center/>.

Visual Art Exhibitions and Permanent Collections

Gallery programming in the Betty Foy Sanders Department of Art offers students and the community multiple galleries to view contemporary and traditional art in Statesboro and Savannah.

On the Statesboro Campus, the Center for Art and Theatre houses two contemporary art galleries. These galleries feature both solo and group exhibitions by world-renowned artists working in a range of media, from traditional paintings to multi-media installations, as well as exhibitions that highlight outstanding work by Georgia Southern art and design students.

The Center for Art and Theatre also houses the department's permanent collections. The Betty Foy Sanders Georgia Artists Collection features artworks created by artists born or based in Georgia, created using materials found in Georgia, or themed around the state itself. The collection has been curated by Betty Foy Sanders since she established it in 1968, and is on permanent display in the Georgia Artists Collection Gallery. The Smith Callaway Banks Southern Folk Art Collection features folk art of varying genres and media from around the southeastern United States. This collection also is on permanent display, and was donated to the Department by Bulloch County historian Smith Callaway Banks in 2007.

Nestled between the Center for Art & Theatre and the Visual Arts Building, a sculpture garden offers visitors the opportunity to enjoy changing exhibitions of three-dimensional works of art created by students and alumni of the Betty Foy Sanders Department of Art.

On the Armstrong Campus, the Fine Arts Gallery occupies a central position in Fine Arts Hall. The gallery hosts 10 exhibitions each academic year, showcasing work by students, faculty, alumni, and visiting artists.

All galleries and collections are open Monday through Friday, 9 a.m. to 5 p.m., and nights and weekends by appointment. Exhibits are free to the public. Guided tours are available through the Betty Foy Sanders Department of Art, (912) 478-ARTS.

Policies

Equal Opportunity Policy Statement

It continues to be the policy of Georgia Southern University to implement equal opportunity to all employees, students, applicants for employment or admission, and participants in any of the University's programs without regard to race, color, sex, sexual orientation, gender identity or expression, national origin, religion, age, veteran status, political affiliation, or disability. Georgia Southern University is committed to the fulfillment of this policy, which prohibits any employee, student, or patron from unlawfully harassing, threatening, or physically or verbally abusing another individual with the effect of unreasonably interfering with that person's work or academic performance or of creating an intimidating, hostile, or offensive work or academic environment. Questions regarding this policy of nondiscrimination should be directed to:

Director of Equal Opportunity & Title IX
P.O. Box 8035
Statesboro, GA 30460-8035
(912) 478-5136

Accommodations for Individuals With Disabilities

In compliance with the Americans with Disabilities Act (ADA), Georgia Southern University will honor requests for reasonable accommodations made by individuals with disabilities. Students must self-disclose any

disability for which an accommodation is being sought to the Student Accessibility Resource Center (SARC) before academic or other accommodations can be implemented. For additional information, please call the Director of Equal Opportunity & Title IX at (912) 478-5136 / TDD (912) 478-0273 or the SARC Director at (912) 478-1566 / TDD (912) 478-0666. The TDD phone numbers are intended for individuals with hearing impairments.

Student Notification Policy

All Georgia Southern University students are provided with an e-mail address within 24 hours of student registration. **E-mail addresses are the official means of communication between the University and the student.** It is the student's responsibility to check his/her e-mail each school day for administrative messages. Failure to respond to a University communication or failure to act on a University communication in a timely manner may result in consequences that cannot be appealed or reversed.

Learn More about Policies

University-Wide Policies

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- Academic Intervention Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/academic-intervention-policy/>)
- Academic Renewal Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/academic-renewal-policy/>)
- Academic Standing Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/academic-standing-policy/>)
- Classification (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/classification/>)
- Consolidation GPA Renewal Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/consolidation-gpa-renewal-policy/>)

- Course Load (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/course-load/>)
- Dean's and President's Lists (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/deans-list/>)
- Employment Programs (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/employment-programs/>)
- Graduate Credit for Seniors (Senior Privilege) (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/graduate-credit-seniors-senior-privilege/>)
- Limited Grade Forgiveness Policy (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/limited-grade-forgiveness/>)
- Policy for Limiting Individual Course Withdrawals (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/policy-limiting-individual-course-withdrawals/>)
- Registration Time Tickets and RANs (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/registration-time-tickets-rans/>)
- Scholarship Programs (<http://catalog.georgiasouthern.edu/undergraduate/academic-resources/academic-policies/scholarship-programs/>)
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Academic Dishonesty

The University's goal is to foster an intellectual atmosphere that produces educated, literate people. Because cheating and academic dishonesty is at odds with that goal, it shall not be tolerated in any form. Students are expected to adhere to the rules and regulations as set forth in the

Code of Student Conduct. Therefore, all work submitted by a student must represent that student's own ideas and effort; when the work does not, the student has engaged in academic dishonesty.

Academic Dishonesty Regulations

1. **Cheating** is (a) the use or attempted use of unauthorized materials, information, or study aids in any academic exercise; or (b) actions taken to gain unfair or undue advantage over others. Examples of cheating include (but are not limited to):
 - a. Receiving, providing, and/or using unauthorized assistance or materials on any work required to be submitted for any course (including online services or social media).
 - b. Alteration or insertion of any grade so as to obtain unearned academic credit.
 - c. Fabricating information, research, and/or results such as taking, or attempting to take, an examination for another Student, alteration of legitimate research data, alteration or distortion of laboratory experiments, or deliberate distortion of another's work or results.
 - d. Collaborating with others on assignments without the faculty's consent.
 - e. Impeding the ability of Students to have fair access to materials assigned or suggested by the Faculty Member (e.g., removal or destruction of library or other source materials).
 - f. Demonstrating any other forms of dishonest behavior.
2. **Classroom Copyright Infringement**
 - a. Any recording and transmission of classroom lectures and discussions by Students without prior written permission from the class instructor, and without all Students in the class as well as the guest speaker(s) being informed that audio/video recording may occur (it is not a violation if Student has educational accommodations through the Student Accessibility Resource Center).
 - b. Uploading any recordings of lectures and/or class presentations to publicly accessible web environments.
3. **Facilitation**
 - a. Cooperating with and/or helping another Student to cheat such as instigating, encouraging, or abetting plagiarism or cheating and/or failing to report a known violation to the appropriate office.
4. **Plagiarism** is the offering of the words, ideas, computer data programs, or graphics of others as one's own in any academic exercise. Examples of plagiarism include (but are not limited to):
 - a. The offering of another's work, whether verbatim or paraphrased, as original material without identifying the source(s) in an academic paper.
 - b. Directly quoting the words of others without using quotation marks or indented format to identify them.
 - c. Self-plagiarism: re-submitting work previously submitted without appropriate or accurate citation or credit and/or without explicit approval from the instructor.
 - d. Use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

NOTICE: The list above is intended only to provide general guidelines for recognizing and avoiding common types of academic dishonesty. It is in no way an exhaustive or comprehensive list of all the types of academic dishonesty.

For more information about academic honesty, see the Student Code of Conduct which can be found on the Office of Student Conduct webpage at deanofstudents.georgiasouthern.edu/conduct (<http://deanofstudents.georgiasouthern.edu/conduct/>).

Accreditation

Statesboro, Georgia 30460

General Information: (912) 478-5611
www.georgiasouthern.edu

Georgia Southern University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associates, baccalaureate, masters, specialists and doctorate degrees. Contact the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 (www.sacscoc.org (<http://www.sacscoc.org>)) for questions about the accreditation of Georgia Southern University.

Normal inquiries about the institution, such as admission requirements, financial aid, educational programs, etc. should be addressed directly to the institution and not to the SACSCOC office. The Commission should be contacted only if there is evidence that appears to support an institution's significant non-compliance with a SACSCOC accreditation requirement or standard.

Departments/Programs	Accrediting Organization
Child Development Center	National Association for the Education of Young Children
Counseling and Career Development Center	International Association of Counseling Services
Applicant Psychology Internship Program	American Psychological Association
Health Services	Accreditation Association for Ambulatory Health Care and Certified as a Patient Centered Medical Home
Museum	American Alliance of Museums
College of Arts and Humanities	
Art (Undergraduate and Graduate)	National Association of Schools of Art and Design
Art Education	Council for the Accreditation of Educator Preparation and Georgia Professional Standards Commission
Music (Undergraduate and Graduate)	National Association of Schools of Music
Theatre	National Association of Schools of Theatre
College of Behavioral and Social Sciences	
Interior Design	Council for Interior Design Accreditation and National Association of Schools of Art & Design
Clinical Psychology (Graduate)	American Psychological Association
Public Administration (Graduate)	Network of Schools of Public Policy, Affairs, and Administration
Recreation (Undergraduate)	Council on Accreditation of Parks, Recreation, Tourism, and Related Professions
Parker College of Business	
Accounting (Undergraduate and Graduate)	Association to Advance Collegiate Schools of Business
Parker College of Business (Undergraduate and Graduate)	Association to Advance Collegiate Schools of Business
College of Education	
College of Education (Undergraduate and Graduate)	Council for the Accreditation of Educator Preparation and Georgia Professional Standards Commission
Counselor Education	Council for Accreditation of Counseling and Related Educational Programs

School Psychology	National Association of School Psychologists
Allen E. Paulson College of Engineering and Computing	
Civil Engineering	Engineering Accreditation Commission of ABET
Computer Sciences	Computing Accreditation Commission of ABET
Construction	American Council for Construction Education
Electrical Engineering	Engineering Accreditation Commission of ABET
Information Technology	Computing Accreditation Commission of ABET
Manufacturing Engineering	Engineering Accreditation Commission of ABET
Mechanical Engineering	Engineering Accreditation Commission of ABET
Waters College of Health Professions	
Athletic Training	Commission on Accreditation of Athletic Training Education
Coaching Emphasis	National Committee for Accreditation of Coaching Education Level 5
Coaching Minor	National Committee for Accreditation of Coaching Education Level 3
Communication Sciences and Disorders	American Speech-Language-Hearing Association Council on Academic Accreditation
Dietetics Internship	American Council for Education in Nutrition and Dietetics
Physical Therapy (Graduate)	Commission on Accreditation in Physical Therapy Education
Medical Laboratory Science	National Accrediting Agency for Clinical Laboratory Sciences
Health Administration (Graduate)	Commission on Accreditation of Healthcare Management Education
Nursing (Undergraduate and Graduate)	Commission on Collegiate Nursing Education and Georgia Board of Nursing (approval to operate in the state of Georgia)
Nutrition and Food Science	Accreditation Council for Education in Nutrition and Dietetics
Radiologic Sciences	Joint Review Committee on Education in Radiologic Technology and Joint Review Committee on Educational Programs
Respiratory Therapy	Commission on Accreditation for Respiratory Care
Giann-Ping Hsu College of Public Health	
Public Health (Undergraduate and Graduate)	Council on Education for Public Health
College of Science and Mathematics	
Biochemistry	American Society for Biochemistry and Molecular Biology (Provisional) and American Chemical Society
Chemistry	American Chemical Society
Applied Physical Sciences (Graduate)	Designation as a Professional Science Master's - Affiliate Membership (non-thesis track only)

Auditing Courses

A student may audit a course by submitting a written request to the Office of the Registrar. Academic credit is not awarded for auditing a class. Students may not transfer from audit to credit status or from credit to audit status after the last day of Drop/Add. A grade of "V" (audit) is entered on the student's record. The student will be responsible for all fees charged for the audited course.

Class Attendance

University policy requires students to attend the first class meeting of all classes in which they are registered. Instructors are required to report first day attendance for all students registered in their classes. Students who are verified as "Not Attending" a course will be dropped. This policy applies to all levels of courses and includes on campus, off campus, distance learning, two-way interactive video, and internet (online) classes. Students who have verifiable extenuating circumstances which prohibit them from attending the first day of classes must contact their instructor to avoid being dropped from the course. Students who have been recorded as "Not Attending" may not receive financial aid. Attendance will be officially verified before financial aid will be disbursed.

Students are expected to attend all classes. Specific policies concerning class attendance beyond the first class meeting, including excused and excessive absences will be set by each professor.

Attendance and Student Responsibility

Students are expected to attend all classes. Each instructor has the responsibility for setting specific policies concerning class attendance beyond the first class meeting, including whether they will accept excused absences and whether they will allow missed work to be made up. Instructors should have clearly stated attendance policies in their course syllabus and should make clear what constitutes excessive absences. Departments may establish policies concerning class attendance provided there is unanimous agreement by faculty members within the department. The effect of attendance on course grades is left to the discretion of instructors.

Students are responsible for knowing everything that is announced, discussed, or lectured upon in class, as well as for mastering all outside assignments. It is the student's responsibility to verify the accuracy of his/her course schedule at all times. It is imperative that the student verify the accuracy of his/her course schedule during the attendance verification period. Students are responsible for dropping all classes that they do not plan to attend or complete. Students are also responsible for registering or adding classes for which they wish to receive credit. Drop/adds must be completed during the drop/add period which is defined on the academic calendar for each term or part of term.

For financial aid reasons, student attendance must be verified before financial aid will be disbursed. Students who have been marked as "not attending" may not receive their financial aid and may be dropped from the class roster. Students may check their attendance status via WINGS.

Authorized Activities

Students participating in authorized activities as an official representative of the University (i.e., athletic events, delegate to regional or national meetings or conferences, participation in university-sponsored performances) will not receive academic penalties and, in consultation with the instructor of record, will be given reasonable opportunities to complete assignments and exams or given compensatory assignment(s) if needed. The student must provide written confirmation from a faculty or staff advisor to the course instructor(s) at least 10 days prior to the date for which the student will be absent from class. The student is responsible for all material presented in class and for all announcements

and assignments. When possible, students are expected to complete these assignments before their absences. In the event of a disagreement regarding this policy, an appeal may be made by either the student or the instructor of record to the corresponding college dean.

Exemption for Military Obligations

A student whose military obligations require his/her absence from class for more than the first day may seek an exemption from the class attendance policy. The student will need to contact the college associate dean to request an exemption from the class attendance policy. Students must also provide the associate dean(s) with a copy of their military orders. The associate dean(s) will contact the appropriate department chair(s) and course instructor(s) with the exemption request. The course instructor(s) will carefully consider the request and will base their decision upon the course attendance policies and the student's ability to address any missed coursework upon the student's return.

Excused Absences

The University does not issue an excuse to students for class absences. In case of absence as a result of illness, representation of the University in athletic and other activities, or special situations, instructors may be informed of the reasons for absences, but these are not excuses.

Holiday Observance

It is the policy of the University to permit students, faculty, and staff to observe those holidays set aside by their chosen religious faith. The faculty should be sensitive to the observance of these holidays so that students who choose to observe these holidays are not seriously disadvantaged. It is the responsibility of those who wish to be absent to make arrangements in advance with their instructor(s).

Code of Student Conduct

The Code of Student Conduct is the official University publication governing student conduct and behavior. It is the responsibility of each Student to become familiar with the rules and regulations governing student life.

Student conduct procedures, appeal procedures, and disciplinary sanctions are found in the Code of Student Conduct at students.georgiasouthern.edu/conduct. Georgia Southern University reserves the right to change the Code of Student Conduct when it becomes necessary to ensure the orderly operation of the University. For additional information, call the Office of Student Conduct at (912) 478-0059 or visit the web at students.georgiasouthern.edu/conduct.

Complete Withdrawal

To discontinue enrollment prior to the first day of University classes, a student should complete and submit a Voluntary Cancellation Form. Any student who wishes to withdraw from all remaining courses for the current term must complete and submit an official Withdrawal Form. Failure to complete and submit an official Withdrawal Form will result in the assignment of failing grades in all courses for which the student registered. A withdrawal is not permitted after the last day of classes. Grades of "W" will be given for all courses if the withdrawal is before the last day to withdraw without academic penalty. Grades of "WF" will be given for all courses if the withdrawal is completed after the last day to withdraw. A "WF" grade is calculated in the GPA as an "F" grade. Students will not be able to withdraw from all of their classes via WINGS. WINGS prevents students from withdrawing from their last course over the web.

Before withdrawing, students should speak with their instructors, academic advisors, and financial aid counselors. While there can be good reasons for withdrawing from the term, a student should understand the

consequences in regards to their degree program, progress towards graduation, and financial aid.

Course Withdrawal Policy

Students are allowed to withdraw (published on the University Calendar for each semester) from a course up to and including the last day to withdraw without academic penalty. Withdrawing from a course requires either the submission of a withdrawal via WINGS or the submission of a paper "Course Withdrawal" form to the Office of the Registrar. Fees will not be reduced if a student withdraws from a course and grade of "W" will be recorded on their transcript.

Before withdrawing from a class, students should speak with their instructors, academic advisors, and financial aid counselors. While there can be good reasons for withdrawing from a course, a student should understand the consequences of withdrawing from a course in regards to their degree program, progress towards graduation, and financial aid.

Credit Hour Policy

Georgia Southern's Credit Hour Policy follows the Federal Definition and the policies in effect at our accrediting body, the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) as well as at the University System of Georgia (USG).

Policy Statement

The Federal Definition

"A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than –

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out of class student work each week for approximately 15 weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credits.

SACSCOC Credit Hour Policy

www.sacscoc.org (<http://www.sacscoc.org/>)

As part of its review of an institution seeking continuing accreditation, SACSCOC conducts reviews of an institution's assignment of credit hours. Academic credit has provided the basis for measuring the amount of engaged learning time expected of a typical student enrolled not only in traditional classroom settings but also laboratories, studios, internships, and other experiential learning and distance and correspondence education. Students, institutions, employers, and others rely on the common currency of academic credit to support a wide range of activities, including the transfer of students from one institution to another. For several decades, the federal government has relied on credits as a measure of student academic engagement as a basis of awarding financial aid. The University System of Georgia's definition of credit hours states, "The academic year shall consist of two (2) regular semesters, each not to be less than fifteen (15) calendar weeks in length excluding registration....A minimum of 750 minutes of instruction or equivalent is required for each semester credit hour." (USG Policy Manual Section 3.4)

Georgia Southern Credit Hour Policy

The Georgia Southern Credit Hour Policy applies to all courses at all levels (undergraduate, graduate, and professional) that award academic credit on an official transcript regardless of the mode of delivery including, but not limited to, fully online, hybrid, lecture, seminar, laboratory, studio, directed study, or study abroad. The academic units are responsible for ensuring that credit hours are awarded only for work that meets the requirements outlined in this policy.

Lecture Courses

Traditional lecture-based courses that meet only in a face-to-face format must meet for 750 minutes for each semester credit hour, whether offered in a full-semester, half-semester, or 5-week format. When courses are offered in hybrid or fully online format, 750 engaged minutes are still required and expected for each hour of credit and course content and learning outcomes should be equivalent to those established in face-to-face sections of the same course.

Laboratory/Studio/Clinical Courses

Georgia Southern will require 1500 engaged minutes for each semester credit hour. In the case of laboratory, studio, or clinical courses, most of these engaged minutes will be spent in the actual execution of the laboratory, studio, or clinical exercises. When the laboratory, studio, or clinical is offered in an online format, 1500 engaged minutes are still required for each hour of credit and course content and learning outcomes should be equivalent to those established in face-to-face sections of the same course.

Additionally, there is an expectation that students spend a minimum of two hours on course work outside of class for every hour spent in class. Out-of-course-work might include, but not be limited to, such assignments as course related readings, research activity, project development, written theme or research papers, preparation for examinations, participation in discussion boards or focused chat rooms.

DegreeWorks

DegreeWorks is a degree auditing system. It is a web-based program that provides easy access for students and advisors to track courses completed and plan for those still needed in preparation for registration and graduation. It allows for easier, more efficient advising and it assists advisors in tracking student and advisor meetings. DegreeWorks should be used to enhance face-to-face advisement meetings. Using DegreeWorks will help students and the University with planning needs. DegreeWorks functions can be used similarly for Undergraduate and Graduate students. Information is the same for both unless otherwise noted. em.georgiasouthern.edu/registrar/students/degreeworks/ (<http://em.georgiasouthern.edu/registrar/students/degreeworks/>).

Grade Point Average

The grade point average is the grade average on all work for which the student is enrolled excluding learning support and institutional credit. It is calculated by dividing the total number of grade points earned by the total number of credits attempted (GPA hours). The total institutional GPA is based only on the course work done at Georgia Southern and does not include transfer course work. To calculate your GPA, go to the First-Year Experience website at academics.georgiasouthern.edu/fye/academics-101/gpa-standing/ (<http://academics.georgiasouthern.edu/fye/academics-101/gpa-standing/>) and click on "Calculating Your GPA."

The total institutional GPA is used for determining a student's academic standing. A student shall be in good academic standing unless he/she has been suspended from the University and not readmitted. An undergraduate student may repeat any course and the most recent grade becomes the official grade for the course even if the most recent grade is lower. In computing the total institutional grade point average all grades

will be used. Students should be aware that all grades earned at Georgia Southern will appear on the Georgia Southern transcript.

A GPA is computed for each level (undergraduate, masters, specialist, doctorate) of course work. For example, a student who has been enrolled as both an undergraduate and a masters student will have one GPA for all undergraduate course work and one GPA for masters course work.

Institutional GPA is calculated using only the courses enrolled in and completed at Georgia Southern University. Transfer courses are not included in this calculation.

Grading Systems

All institutions of the University System of Georgia (USG) shall be on a 4.0 grade point average system, calculated to and truncated at two significant digits. The following grades are approved for use in institutions in the determination of the Grade Point Average (GPA):

Symbols	Explanation	Grade Points
A	Excellent	4.0
B	Good	3.0
C	Satisfactory	2.0
D	Passing	1.0
F	Failure	0.0
WF	Withdrew Failing	0.0

The following symbols are approved for use in the cases indicated, but will not be included in the determination of the Grade Point Average (GPA):

Symbols	Explanation	Grade Points
I	Incomplete	0.0
IP	In Progress	0.0
K	By Examination	0.0
NR	Not Reported	0.0
S	Satisfactory	0.0
U	Unsatisfactory	0.0
V	Audit	0.0
W	Withdrew	0.0
WM	Withdrew Military	0.0

Symbols	Explanation
I	An incomplete grade ("I") indicates that the student was doing satisfactory work but was unable to meet the full requirements of the course due to non-academic reasons. It is the student's responsibility to contact the instructor to complete the remaining requirements of the course. The instructor is responsible for keeping a record of all "I" grades assigned and the justification as to why the professor assigned the student the "I" grade. An "I" should be removed during the following semester, but the instructor may allow the student up to one calendar year to remove the incomplete. The student must complete the requirements of the instructor who assigned the incomplete and should not re-register for the course. If the "I" is not satisfactorily removed by the end of the third semester (one calendar year), it will be changed to an "F" by the Office of the Registrar. For HOPE/Zell Miller scholarship recipients, "I" grades could affect HOPE/Zell Miller eligibility status when the grade for the incomplete is eventually submitted to the Office of the Registrar. Students who had been awarded HOPE/Zell Miller, but later became ineligible with the grade change, will have HOPE/Zell Miller awards canceled until the next checkpoint, and will be responsible for the repayment of any HOPE/Zell Miller funds received while not eligible. Incomplete grades may also affect Satisfactory Academic Progress (SAP) for federal financial aid eligibility. The complete SAP policy can be found at: http://em.georgiasouthern.edu/finaid/policies/satisfactory-academic-progress-sap (http://em.georgiasouthern.edu/finaid/policies/satisfactory-academic-progress-sap/).
IP	This symbol indicates that credit has not been given in courses that require an "IP" continuation of work beyond the semester for which the student signed up for the course. The use of this symbol is approved for dissertation, thesis hours and project courses. With the exception of Learning Support courses, this symbol cannot be used for other courses. This symbol cannot be substituted for an "I".
K	This symbol indicates that a student was given credit for the course by examination (e.g., College Level Examination Program (CLEP), Advanced Placement (AP), International Baccalaureate (IB), and Proficiency). See "Credit by Examination" in the Admissions section of the catalog.
NR	This symbol indicates that a grade has not been reported for the course by the instructor. The student should contact his/her instructor for the grade.
S	This symbol indicates that satisfactory credit has been given for completion of degree requirements other than academic course work. The use of this symbol is approved for dissertation and thesis hours, student teaching, clinical practicum, internship, and proficiency requirements in graduate programs. Also, this symbol is used for academic alerts for undergraduate students and indicates that performance is equivalent to a "C" or better grade. Academic alerts will be submitted for all students enrolled in courses from Area A-E of the core curriculum and courses departments identify as appropriate for academic alerts. A "S" is not included in the computation of the GPA.
U	This symbol indicates unsatisfactory performance in an attempt to complete degree requirements other than academic course work. The use of this symbol is approved for dissertation and thesis hours, student teaching, clinical practicum, internship, and proficiency requirements in graduate programs. A "U" is not included in the computation of the GPA.
V	This symbol indicates that a student was given permission to audit the course.
W	This symbol indicates one of the following: 1) A student was permitted to withdraw from a course without academic penalty. The "W" grade is assigned when a student withdraws before the last day to withdraw without academic penalty unless the student has reached his/her maximum of six withdrawals. If the student has reached his/her maximum six withdrawals, the student will have the choice to remain in the class and receive the grade he/she earns or proceed with the withdrawal and a "WF" will be assigned to the course by the Office of the Registrar (See "WF" grade description for more details); 2) A student was administratively withdrawn from his/her course(s) as a result of the student's failure to complete all requirement for matriculation; 3) A student was administratively withdrawn from his/her course due to student conduct/judicial reasons. 4) In the event a student faces circumstances of extreme duress beyond his/her control, the student may request a Withdrawal Hardship from the university. ¹ A "W" is not considered in computing the GPA.
WF	This symbol indicates one of the following: 1) A "WF" grade is an option for a student who is wanting to withdraw from a class and has met his/her maximum six withdrawals at Georgia Southern. If the student has reached his/her maximum six withdrawals, the student will have the choice to remain in the class and receive the grade he/she earns or proceed with the withdrawal and a "WF" will be assigned to the course by the Office of the Registrar; 2) If a student withdraws from all classes after the last day to withdraw without academic penalty, a "WF" grade will be posted by the Office of the Registrar. "WF" grades are calculated in the student's GPA as an "F" grade.
WM	A "WM" grade indicates that the student was called for active duty in the military and withdrew from all classes. ²
	¹ Please see "Withdrawal Hardship (p. 555)" for further information.
	² Please see "Military Withdrawals (p. 553)" for further information.
Other Transcript Designations	
Symbols	Explanation
#	Academic Renewal (Forgiveness) - will be used in the total institution GPA and transfer GPA upon Academic Renewal; All past grades of "A", "B", "C", and "S" will remain in the hours earned toward graduation, but they will not be included in the total institution GPA and transfer GPA upon academic renewal. Academic Renewal is only available to undergraduate students.
*	Required High School Curriculum (RHSC)
%	Institutional Credit - No Earned Hours - not used in calculating GPA
!	Consolidation GPA Renewal
CR	Credit earned through military experience - not used in calculating GPA
N	When succeeding a grade, used to designate transfer credit - No credit awarded
T	When succeeding a grade, used to designate transfer credit

Institutional Testing Schedule

(Dates are subject to change, please verify dates at georgiasouthern.edu/success/testing (<http://academics.georgiasouthern.edu/success/testing/>))

American College Test (ACT) - Residual/ On-Campus

(georgiasouthern.edu/success/testing/act-residual) (<http://academics.georgiasouthern.edu/success/testing/act-residual/>)

The ACT-R is offered in both Statesboro and Savannah by group appointment or by private appointment. Learn more about the ACT-R concerning testing dates and registration at georgiasouthern.edu/success/testing/act-residual (<https://academics.georgiasouthern.edu/success/testing/act-residual/>).

Testing is available by appointment Monday through Friday at 8:30 am. To schedule, a private appointment in Statesboro or Savannah contact the Savannah Testing Office at 912-344-2582 or the Statesboro Office at 912-478-5415. The ACT-Residual Exam is not administered from September 1 - October 31, each year.

Miller Analogies Test (MAT)

(georgiasouthern.edu/success/testing/mat) (<http://academics.georgiasouthern.edu/success/testing/mat/>)

The MAT is offered in both Savannah and Statesboro. Learn more about the MAT concerning testing dates and registration by visiting the testing website (<https://academics.georgiasouthern.edu/success/testing/%20mat/>).

Testing is also available by appointment Monday through Friday between 9:00 a.m. - 4:00 p.m. To schedule a private appointment in Statesboro or Savannah, contact the Savannah Testing Office at 912-344-2582 or the Statesboro Office at 912-478-5415.

HESI Admissions Assessment (A2) Nursing Entrance Exam

(georgiasouthern.edu/success/testing/net) (<http://academics.georgiasouthern.edu/success/testing/net/>)

The HESI is offered in both Savannah and Statesboro by group appointments with registration information and testing dates listed on the website (<https://academics.georgiasouthern.edu/success/testing/net/>). Testing is available by private appointment Monday through Friday between 8:30 a.m. - 1:30 p.m. To schedule a private appointment in Statesboro or Savannah, contact the Savannah Testing Office at 912-344-2582 or the Statesboro Office at 912-478-5415.

College Level Examination Program (CLEP)

(georgiasouthern.edu/success/testing/clep) (<http://academics.georgiasouthern.edu/success/testing/clep/>)

Offered in both Statesboro and Savannah.

The CLEP allows students to earn credit for certain courses by taking a CLEP exam. To learn more about CLEP Exams and which exams are accepted at Georgia Southern University, see the CLEP website (<http://academics.georgiasouthern.edu/success/testing/clep/>). To schedule an appointment in Statesboro or Savannah, contact the Savannah Testing Office at 912-344-2582 or the Statesboro Office at 912-478-5415.

DSST

(georgiasouthern.edu/success/testing/dsst) (<http://academics.georgiasouthern.edu/success/testing/>)

DSST allows students to earn credit for certain courses by taking a DSST exam. To learn more about DSST Exams and which exams are accepted at Georgia Southern University, see: georgiasouthern.edu/success/testing/dsst (<https://academics.georgiasouthern.edu/success/testing/>).

To schedule a private appointment in Statesboro or Savannah, contact the Savannah Testing Office at 912-344-2582 or the Statesboro Office at 912-478-5415.

Certiport Exam

(georgiasouthern.edu/success/testing/mso) (<http://academics.georgiasouthern.edu/success/testing/mso/>)

Certiport Exams are offered by appointment in Statesboro Monday through Friday by calling (912) 478-5415. Exams that Georgia Southern University students are specifically interested in taking include the Microsoft Office Specialist Certification and the Microsoft Technology Associate. Review the Certiport website (<https://certiport.pearsonvue.com/>), to learn more about additional certification exams.

TEAS-Allied Health

(georgiasouthern.edu/success/testing/teas) (<https://academics.georgiasouthern.edu/success/testing/teas/>)

The TEAS -Allied Health Exam - is only offered in Savannah. To learn more about registration and testing dates see the website at georgiasouthern.edu/success/testing/teas (<https://academics.georgiasouthern.edu/success/testing/teas/>). For questions contact the Testing Office in Savannah at 912-344-2582 or testingsav@georgiasouthern.edu.

MAPP

(georgiasouthern.edu/success/testing/mapp) (<https://academics.georgiasouthern.edu/success/testing/mapp/>)

The MAPP is only offered in Savannah. To learn more about registration and testing dates see the website at georgiasouthern.edu/success/testing/mapp (<https://academics.georgiasouthern.edu/success/testing/mapp/>). For questions contact the Testing Office in Savannah at 912-344-2582 or testingsav@georgiasouthern.edu.

Major Fields Test (MFT)

(georgiasouthern.edu/success/testing/mft) (<https://academics.georgiasouthern.edu/success/testing/mft/>)

The MFT is offered both in Savannah and Statesboro. To learn more about registration and testing dates see the website at georgiasouthern.edu/success/testing/mft (<https://academics.georgiasouthern.edu/success/testing/mft/>). For questions contact the Testing Office in Savannah at 912-344-2582 or testingsav@georgiasouthern.edu or for Statesboro call 912-478-5415 or testing@georgiasouthern.edu.

Contact Information

Office of Testing Services
Savannah:
912-344-2582 or testingsav@georgiasouthern.edu
(testingsav@georgiasouthern.edu)

Statesboro:

912-478-5415 or testing@georgiasouthern.edu

Military Withdrawals

A student who is called to active duty to serve in the military while attending courses at Georgia Southern is eligible to receive a Military Withdrawal. Students receiving this type of withdrawal are withdrawn for the semester. A 100% refund is issued. The student will receive "WM" grades for all courses that s/he enrolled in during the semester. The "WM" grades that are assigned will not affect the student's GPA. To process this type of withdrawal, the student needs to submit a "Withdrawal Form (<https://myforms.georgiasouthern.edu/Primary/H/?FlowId=9590055d-1935-11eb-b83c-005056938e87&ForceFormat=true&Location=TopCenter&Chrome=Off&Background=White&TextColor=Black&FontSize=12&Spacing=0>). The student will need to provide the Office of the Registrar with a copy of his/her orders stating the date and place of deployment assigned by the military. Military withdrawals are exempt from the Policy Limiting Individual Course Withdrawals.

Music Program

Each academic year, the Department of Music presents more than 100 public concerts, including performances in the Faculty Artist Series, Guest Artist Series, concerts by large and small ensembles, and student recitals. Most performances on the Statesboro Campus take place in the 287-seat Carol A. Carter Recital Hall in the Foy Building; most performances on the Armstrong Campus take place in the Fine Arts Auditorium in the Fine Arts Building.

The Department's performing ensembles include the Georgia Southern Symphony, Southern Chorale, University Singers, Armstrong University Chorale, Armstrong Vocal Chamber Ensemble, Southern Pride Marching Band, Symphonic Wind Ensemble, Wind Symphony, Armstrong Wind Ensemble, Savannah Wind Symphony, Jazz Ensemble, and Georgia Southern Opera, as well as numerous chamber ensembles.

Individual students perform in graduation, junior, senior, and graduate solo recitals. Information about the Department of Music, including the Concert Calendar, is available from the Department of Music web page at cah.georgiasouthern.edu/music/ (<http://cah.georgiasouthern.edu/music/>).

National Testing Schedule

(Dates are subject to change)

American College Test (ACT)

(www.actstudent.org (<http://www.actstudent.org>))

The Office of Testing Services in Statesboro offers the National Saturday ACT Exam. To learn more about the testing dates and registration information visit the ACT website at [actstudent.org](http://www.actstudent.org).

Scholastic Aptitude Test (SAT)

(sat.collegeboard.org (<http://sat.collegeboard.org>))

The Office of Testing Services in Statesboro offers the National Saturday SAT Exam. To learn more about the testing dates and registration information visit the SAT website at sat.collegeboard.org.

Graduate Record Exam (GRE) Subject Tests

(www.ets.org/gre (<http://www.ets.org/gre/>))

The Office of Testing Services in Statesboro and Savannah offers the GRE-Subject Test. To learn more about the testing dates and registration information visit the GRE-Subject website at est.org/gre.

Law School Admission Test (LSAT)

(www.lsac.org (<http://www.lsac.org>))

The Office of Testing Services in Statesboro offers the LSAT Exam. To learn more about the testing dates and registration information visit the LSAC website at lasc.org.

American Council for Exercise Exams (ACE)

(acefitness.org (<http://acefitness.org>))

These exams are offered on the computer by appointment through Scantron in both Savannah and Statesboro. For registration information visit acefitness.org.

Georgia Assessments for the Certification of Educators (GACE)

(gace.ets.org (<http://gace.ets.org>))

The GACE is offered in both Savannah and Statesboro. To learn more about the GACE, check the website for the testing dates and to register for the exam. dates. The site number for Savannah is STN14607A and Statesboro STN14503A and STN13816A.

HESI Admissions Assessment (A2) Nursing Entrance Exam

([georgiasouthern.edu/success/testing/net/](https://academics.georgiasouthern.edu/success/testing/net/) (<https://academics.georgiasouthern.edu/success/testing/net/>)) ([http://https://academics.georgiasouthern.edu/success/testing/net/](https://academics.georgiasouthern.edu/success/testing/net/))

The HESI is offered in both Savannah and Statesboro by group appointments with registration information and testing dates listed on the website (<http://georgiasouthern.edu/success/testing/net/>). Testing is available by private appointment Monday through Friday between 8:30 a.m. - 1:30 p.m. To schedule a private appointment in Statesboro or Savannah, contact the Savannah Testing Office at 912-344-2582 or the Statesboro Office at 912-478-5415.

Test of English as a Foreign Language (TOEFL)

(www.ets.org/toefl (<http://www.ets.org/toefl/>))

See the TOEFL website (<http://www.ets.org/toefl/>) for the testing dates and to register for the exam. The exam is only administered in Statesboro in the STN13816A.

Board of Certification (BOC) Athletic Training Certification Exam

(bocatc.org (<http://bocatc.org>))

This exam is offered on the computer during the national testing periods through Scantron.

For more information concerning testing or registration for a test, check the Office of Testing Services web page at georgiasouthern.edu/success/testing/ (<http://academics.georgiasouthern.edu/success/testing/>) or call

(912) 478-5415 or email testing@georgiasouthern.edu for Statesboro or (912) 344-2582 or testingsav@georgiasouthern.edu.

Petition to Review/Change a Grade

The evaluation of the quality of a student's performance is the prerogative of the instructor. Nothing stated below is intended to place a limitation on this prerogative and the instructor will be involved in the review at each stage in the appeal process. All grade appeals should be viewed as confidential matters between the student, the instructor, and the appropriate administrators.

If a student does not understand the reason for a grade, it is the student's responsibility to consult the instructor of the course about the grade. If after such consultation the student does not agree with the basis on which the grade was assigned, the student may initiate an appeal according to the procedures given below. The burden of proof will rest with the student. There are four stages of appeal available to a student and they must be followed sequentially. This policy applies to Fall, Spring, and Summer semesters.

Stages Two through Four must be completed during the semester immediately following the semester in which the grade was assigned unless an extension is authorized by the Provost. At the completion of each stage of the appeal, the student is to be notified of the decision in writing.

Procedures

Stage One: An appeal must be initiated within 14 working days after the first day of class of the semester which immediately follows the semester for which the grade was awarded. The student should petition the instructor in writing, giving salient reasons for the grade appeal. The student should retain a copy of the written appeal for personal records.

Stage Two: If the student is not satisfied after the review by the instructor, the student should consult the department chair and submit a copy of the written appeal. The department chair will attempt to resolve the grade appeal. The chair will meet with the instructor and may consult with other persons who have relevant information.

Stage Three: If all efforts to resolve the grade appeal at the departmental level are unsuccessful, the student may submit the written appeal to the dean of the appropriate college. The dean will examine the appeal and other pertinent materials submitted by the student. The dean will meet with the instructor and may also request from the instructor materials deemed relevant. In an attempt to resolve the grade appeal, the dean may interview the student, instructor, and others who may have pertinent information. If the dean determines the need for a review committee to examine the issue, the committee shall consist of:

- One faculty member from the department
- One faculty member from the college, but not from the department of the instructor
- One faculty member from another college
- Ex Officio: A staff member from Student Affairs recommended by the Vice President for Student Affairs

The committee, if appointed, will advise the dean regarding the grade under appeal. Whether the dean chooses to appoint a committee or not, the dean will render a final decision on the grade appeal at the college level.

Stage Four: If all efforts to resolve the grade appeal at the college level are unsuccessful, the student may submit the written appeal to the Provost. The Provost will examine the appeal and other pertinent materials submitted by the student. The Provost will meet with the instructor and

also may request materials deemed relevant. In an attempt to resolve the grade appeal, the Provost may interview the student, instructor, and others who may have pertinent information.

If a committee was constituted at the college level, the Provost will review the process, the committee findings, and the decision of the dean and render a final University decision. If a committee was not appointed at the college level, the Provost has the option of appointing a review committee which will conform to the composition described in Stage Three. The committee, if appointed, will advise the Provost regarding the grade under appeal. Whether the Provost chooses to appoint a committee or not, the Provost will render a final University decision.

Policy for Changing a Student's Final Examination

A change in a student's final examination schedule will be approved only for emergency reasons, such as serious illness (a note from Health Services or family physician is required) or the death of an immediate family member (a letter or phone call from a parent, guardian, or physician is required). Letters and phone calls should be directed to the appropriate faculty member.

Final examination schedules will not normally be changed for any of the following reasons: wedding of the student, relative, or friend; part-time or full-time job or job interview; internship or field study; vacation; graduation of relative or friend; convenience of travel schedule; or only one final examination remaining at the end of the week. Exceptions to these guidelines can be made, but should be based on a very compelling case.

Using these guidelines, the student may submit a Request to Reschedule a Final Examination form to the instructor, who, with approval of the department chair, has authority to reschedule the final examination to a new time not conflicting with other regularly scheduled examinations or classes if he or she desires. This form is available on the Provost Office website (academics.georgiasouthern.edu/forms/ (<http://academics.georgiasouthern.edu/forms/>)) under the Forms section entitled Reschedule Final Exam Form.

Policy for Changing a Student's Final Examination if There is a Conflict

A conflict is defined as three exams in a calendar day or two exams at the same time. Conflict Periods are scheduled at the stated times in the semester exam schedule, which can be accessed at: em.georgiasouthern.edu/registrar/students/classinformation/ (<http://em.georgiasouthern.edu/registrar/students/classinformation/>). To resolve a conflict in which a student has two examinations scheduled for the same period, the instructor of the lower numbered course shall reschedule the exam to another time mutually agreed on by the instructor and the student, or to one of the Conflict Periods.

To resolve a conflict in which a student has three examinations scheduled in one calendar day, the examination scheduled for the middle period shall be rescheduled to another time mutually agreed on by the instructor and the student, or to a Conflict Period on another day. **It is incumbent upon the student to petition his/her professor no later than the last week of classes so that an alternative arrangement can reasonably be made. The form is available on the Provost Office website (academics.georgiasouthern.edu/forms/ (<http://academics.georgiasouthern.edu/forms/>)) under the Forms section entitled Reschedule Final Exam Form.**

Policy for Dropping Courses

A student who drops a course before the drop/add period is over does not receive a grade in the course and the course does not appear on the

academic transcript. Courses dropped for non-attendance or for non-payment will also not appear on the academic transcript.

Retroactive Withdrawal

A student who wishes to leave the University for nonacademic reasons is expected to withdraw during the current semester as described in the Complete Withdrawal section. Requests to withdraw after the semester is over are rare and considered only if the student was somehow unable to withdraw. For example, students who were hospitalized or incarcerated, asked to perform military service on short notice, or seriously debilitated by a physical or mental illness may be unable to withdraw during the semester in which they are enrolled. In such cases, students may submit a letter of appeal to the Associate Provost along with the appropriate documentation (medical records, court documents, etc.) during the next long-session semester after the grade is reported. Requests made after that time will not be considered. Retroactive withdrawals will not be considered if the student has completed all course requirements such as a final examination and/or a final project.

Transcripts

All requests for an official transcript for students on the Statesboro, Armstrong and Liberty campuses will be submitted via Student WINGS or by using the information listed below:

Georgia Southern University has retained Parchment to accept electronic and paper transcript orders over the Internet.

There will be a charge for any orders placed via the website below. Electronic transcripts are \$10.00 per order. Paper transcripts are \$10.00 per order. Rush delivery of paper transcripts will be an additional charge above the \$10.

To request your official transcript click on the link below:

Click Here (<https://www.credentials-inc.com/CGI-BIN/dvcgitp.pgm?ALUMTRO001572>) to visit the Transcript Ordering Services site for pricing details and to place your order.

Click Here (<https://www.credentials-inc.com/cgi-bin/rechkcgi.pgm?TPORDER>) to keep track of your order through the Parchment Self Service portal!

University Advancement

The Division of University Advancement consists of Alumni Relations, Development & Annual Giving, and Advancement & Foundation Services. University Advancement is responsible for building and maintaining relationships with campus and external constituencies of the University. The Division nurtures the financial support and good will of alumni, parents, friends, businesses, corporations and foundations on behalf of Georgia Southern's mission. It also serves as liaison for the Georgia Southern University Foundation, a non-profit 501(c)(3) organization. The Foundation oversees private funds given to meet educational and institutional needs at the University not addressed by state appropriations.

The Office of Alumni Relations serves the University by establishing and cultivating lifelong relationships with alumni and friends that result in their participation in and contribution to the growth of the University.

The Office of Development identifies, cultivates, and secures philanthropic gifts in support of Georgia Southern University. Fundraising programs include annual campus and community campaigns, and major and planned gift solicitations.

Advancement Services facilitates fundraising by overseeing gift processing, constituent tracking, relationship management, fund management and the stewardship of philanthropic gifts. They guide the overall business decisions of University Advancement and the Georgia Southern University Foundation, Inc.

Withdrawal Hardship

In the event a student faces circumstances of extreme duress beyond his/her control, the student may request a hardship withdrawal from the university. Hardship withdrawals are not meant to be used for appealing academic matters (e.g. grades), but should be used when a student seeks to withdraw from all classes and leave the university for the remainder of that semester. Students must apply for a Hardship Withdrawal with the Dean of Student's Office prior to the last day of classes for the term they have experienced the hardship.

Hardship withdrawals should fall into one of three categories: medical, personal, or financial. Students will be required to justify their withdrawal with documentation. In instances where a student's circumstances warrant only a partial withdrawal, documentation will be required to substantiate why this student is able to continue with some coursework but not all coursework. If the hardship withdrawal is granted, the student will receive "W" grades for courses that he/she enrolled in during the semester.

Hardship Withdrawal Documentation

Personal Statement of Hardship: The written personal statement of hardship should explain how and/or why the non-academic emergency impacted studies. It is essential that the student provide accurate details about the circumstances surrounding the hardship, date(s) of the hardship event(s), and an account of how the event(s) specifically prevented the completion of coursework. In addition, the student will provide official documentation supporting his/her hardship. This documentation should be consistent with the student's personal statement, and all documentation will be verified prior to the rendering of any decision regarding the student's hardship withdrawal.

Categories of Hardship and Documentation Requirements

- **Medical** (e.g. physical or psychological emergencies): Students may petition for a hardship withdrawal from the University when significant physical or psychological impairments beyond the student's control interfere with the ability to meet academic requirements.
 - The student will supply a physician's report on office letterhead. This document will include the physician's name, address, phone number, nature of patient's illness or accident, dates of treatment, prognosis, and the reason they feel that the student can no longer complete his/her coursework. This document must be signed and dated.
 - Medical withdrawals are exempt from the Policy Limiting Individual Course Withdrawals.
- **Personal** (e.g. severe medical illness within family, death in the family, arrests, etc.): The student will supply appropriate documentation that builds a case for hardship withdrawal due to personal issues. These documents may include but are not limited to death certificates, obituaries, police reports, or physician's letters. The student should obtain documents that contain contact information, are dated, and, if possible, are notarized.
 - Students seeking withdrawal for personal reasons must apply with the Dean of Student's Office prior to the last day of classes for the semester they have experienced the personal hardship.
 - Personal withdrawals are exempt from the Policy of Limiting Individual Course Withdrawals.
- **Financial** (e.g. loss of sole-supporting job, mandatory job changes): The student will supply documentation from an employer or supervisor

that clearly states the mandatory change and the date that these changes took place or will take place. This document should contain contact information for an organizational representative that can verify these changes, preferably a human resource professional.

- A student's inability to have financial aid in place at the start of a semester is NOT grounds for hardship withdrawal due to financial issues.
- Financial withdrawals are exempt from the Policy Limiting Individual Course Withdrawals.
- Students that wish to apply for a Hardship Withdrawal for financial reasons must apply with the Dean of Student's Office prior to the last day of classes for the semester that they have experienced the financial issue.

SPECIAL NOTE: Application for a Hardship Withdrawal does not guarantee the student a grade of W.

Financial Aid Implications

All students seeking either a partial or full hardship withdrawal from the University are strongly recommended to make an appointment with a financial aid counselor. This is of utmost importance if the student has received financial aid (e.g. scholarships, grants, loans, etc.). The granting of a hardship withdrawal may affect the student's ability to receive future financial aid and may greatly affect the student's ability to meet the Federally mandated Standards of Academic Progress. Students should be advised that the granting of a hardship withdrawal does not negate the requirements of meeting the Standards of Academic Progress or the policies regarding mandatory Return of Title IV funds.

Faculty

This list includes full-time, regular and emeriti faculty for fall 2020. The date enclosed in parentheses indicates the year the faculty member joined the faculty of Georgia Southern University. The asterisk denotes Graduate College faculty (members and affiliates).

A

***CHERYL L. AASHEIM, Professor of Information Technology**

B.S., University of Florida, 1991
M.S.T., University of Florida, 1993
Ph.D., University of Florida, 2002 (2002)

***LISA L. ABBOTT, Professor of Theatre**

B.S., Colorado State University, 1988
M.F.A., University of Portland, 1999 (2008)

***MARTHA L. ABELL, Professor of Mathematical Sciences**

B.S., Mercer University, 1984
M.S., Georgia Institute of Technology, 1987
Ph.D., Georgia Institute of Technology, 1989 (1989)

***MARIA M. ADAMOS, Professor Emerita of Philosophy**

B.A., Middlebury College, 1992
M.A., University of California-Santa Barbara, 1994
Ph.D., University of California-Santa Barbara, 2000 (2000)

JOSEPH V. ADAMS, Dean Emeritus, College of Arts and Sciences, and Professor Emeritus of Psychology

B.A., Tennessee Temple College
M.A., Baylor University
Ph.D., University of Alabama (1970)

***LAURIE ADAMS, Associate Professor of Radiologic Sciences and Interim Chair, Department of Diagnostic and Therapeutic Sciences**

B.S., University of Central Florida, 1987
M.S., University of North Florida, 1992

Ed.D., Georgia Southern University, 1998 (1992)

TRIP C. ADDISON, Vice President for University Advancement

B.S.Cons., Georgia Southern University, 2008
M.B.A., Georgia Southern University, 2009 (2015)

***ATIN ADHIKARI, Associate Professor of Environmental Health Sciences**

B.S., Visva Bharati University, 1991
M.S., Visva Bharati University, 1993
Ph.D., Jadavpur University, 2001 (2014)

***AMELIA ADKINS, Professor and Chair, Department of Middle Grades and Secondary Education**

B.A., Georgia Southern University, 1990
M.Ed., Georgia Southern University, 1992
Ph.D., University of North Carolina-Chapel Hill, 1997 (2017)

***EVANS AFRIYIE-GYAWU, Associate Professor of Environmental Health Sciences**

B.S., Texas A&M University, 1998
M.P.H., Texas A&M University-Health Sciences Center, 2000
Ph.D., Texas A&M University, 2004 (2008)

NIHAN AGACLI-DOGAN, Visiting Instructor of Instructional Technology

B.S., Bogazici University, 2011
M.S., Bogazici University, 2011 (2019)

NEELAM AGGARWAL, Lecturer of Mathematical Sciences

B.A., St. Stephen's College, 1982
M.A., University of Delhi, 1984
M.Phil., University of Delhi, 1986 (2012)

ELEANOR F. AGNEW, Associate Professor Emerita of Writing and Linguistics

B.A., University of Vermont, 1970
M.A., University of Maine, 1981
Ph.D., Louisiana State University and A&M College, 1991 (1989)

***MOHAMMAD ABDUL AHAD, Associate Professor of Electrical Engineering**

B.S.E.E., Bangladesh University of Engineering and Technology, 1998
M.E., University of Tennessee, 2007
Ph.D., University of Tennessee, 2007 (2009)

***KARELLE SIMONE AIKEN, Professor of Chemistry**

B.A., Williams College, 2000
Ph.D., University of New Hampshire, 2005 (2007)

***METE AKCAOGLU, Associate Professor of Instructional Technology**

B.A., Bogazici University, 2003
M.A., Middle East Technical University, 2008
Ph.D., Michigan State University, 2013 (2014)

***AHMET SERDAR AKTURK, Associate Professor of History**

B.S., Middle East Technical University, 2004
M.A., University of Arkansas, 2006
Ph.D., University of Arkansas, 2013 (2013)

***ROCIO ALBA-FLORES, Associate Professor of Electrical Engineering**

M.S., National Institute of Astrophysics, Optics, and Electronics, 1981
B.S., National Polytechnic Institute, 1982
M.S., Tulane University of Louisiana, 1998
Ph.D., Tulane University of Louisiana, 1999 (2008)

JUNE E. ALBERTO, Professor Emerita of Nursing

B.S.N., Spalding College, 1973
M.S.N., University of Kentucky, 1978

D.N.S., Indiana University, 1990 (1991)

***KATHY SEYMOUR ALBERTSON, Associate Professor Emerita of Writing and Linguistics**

B.A., Armstrong State College, 1988

M.A., Georgia Southern University, 1990

Ph.D., Indiana University of Pennsylvania, 2006 (1990)

NATHANIEL C. ALEXANDER, Professor Emeritus of Teaching and Learning

B.S., Clemson Agricultural College, 1966

M.Ed., North Carolina State University, 1970

Ed.D., North Carolina State University, 1974 (1990)

***ANDREW A. ALLEN, Assistant Professor of Computer Science**

B.S., Florida International University, 2005

M.S., Florida International University, 2009

Ph.D., Florida International University, 2011 (2011)

***MONIQUE CHRISTINE ALLER, Associate Professor of Physics**

B.A., Wellesley College, 1999

M.S., University of Michigan, 2001

Ph.D., University of Michigan, 2007 (2014)

***DAVID C. ALLEY, Professor Emeritus of Spanish**

B.A., Macalester College, 1975

M.Ed., University of Georgia, 1981

Ed.D., University of Georgia, 1988 (1988)

***WILLIAM T. ALLISON III, Professor of History**

B.A., East Texas State University-Commerce, 1989

M.A., East Texas State University-Commerce, 1991

Ph.D., Bowling Green State University, 1995 (2008)

IBRAHIM ALLIU, Visiting Instructor of Mathematical Sciences

B.S., Ladoke Akintola University of Technology, 2010

M.S., Georgia Southern University, 2020 (2020)

***KASIE E. ALT, Assistant Professor of Art History**

B.A., Northern Michigan University, 2009

M.A., University of Wisconsin-Madison, 2011

Ph.D., University of Texas-Austin, 2017 (2018)

***HEIDI M. ALTMAN, Associate Professor of Anthropology**

B.A., Florida State University, 1987

M.A., Florida State University, 1990

M.A., Florida State University, 1996

Ph.D., University of California-Davis, 2002 (2005)

***DRAGOS AMARIE, Assistant Professor of Physics**

Dipl., Alexandru Ioan Cuza University, 1997

M.S., Alexandru Ioan Cuza University, 1999

M.S., Indiana University-Bloomington, 2003

Ph.D., Indiana University-Bloomington, 2009 (2014)

***OLGA AMARIE, Associate Professor of French**

B.A., Alecu Russo State University of Balti, 1996

M.A., Alexandru Ioan Cuza University, 1997

M.A., Indiana University-Bloomington, 2004

Ph.D., Indiana University-Bloomington, 2011 (2011)

***ALLEN AMASON, Dean, Parker College of Business, and Professor of Management**

B.B.A., Georgia Southern College, 1984

Ph.D., University of South Carolina-Columbia, 1993 (2013)

***ALLISON JEAN AMONETTE, Associate Professor of Chemistry**

B.S., Western Kentucky University, 1992

M.S., The Ohio State University, 1995

Ph.D., The Ohio State University, 1998 (1998)

WILLIAM A. AMPONSAH, Assistant Professor of Economics

B.S., Berea College, 1984

M.S., University of Kentucky, 1986

Ph.D., The Ohio State University, 1991 (2006)

***TUYIN AN, Assistant Professor of Mathematical Sciences**

B.S., Xi-an University, 2004

M.A., New York University, 2009

Ph.D., Purdue University, 2017 (2017)

DONALD D. ANDERSON, Dean Emeritus, Community Services, and Registrar Emeritus

B.S., Georgia Southern College

M.A., Georgia Peabody College

Ed.D., Auburn University (1966)

***DUSTIN ANDERSON, Associate Professor of Literature and Provost Faculty Fellow**

B.A., Carson-Newman College, 2002

M.A., Florida State University, 2006

Ph.D., Florida State University, 2010 (2010)

***CAROL M. ANDREWS, Associate Professor Emerita of English**

B.A., Furman University, 1972

M.A., Vanderbilt University, 1973

Ph.D., Vanderbilt University, 1984 (1988)

***DMITRY APANASKEVICH, Assistant Curator, U.S. National Tick Collection, and Professor of Biology**

B.B., St. Petersburg State University, 1998

M.B., St. Petersburg State University, 2000

Ph.D., Academy of Science USSR, 2004 (2006)

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B.S., University of Washington, 2008

Ph.D., University of Nebraska Medical Center, 2013 (2013)

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B.A., University of Yazd, 2006

M., University of Tehran, 2009

Ph.D., University of Wisconsin-Milwaukee, 2015 (2015)

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B.A., University of North Carolina-Chapel Hill, 2005

M.Ed., University of North Carolina-Charlotte, 2010

Ph.D., University of North Carolina-Charlotte, 2017 (2019)

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A.B., Harvard University, 1963

M.A., Columbia University, 1969

Ph.D., Columbia University, 1976 (1974)

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A.B., Emory University, 1967

M.S., Florida State University, 1976

M.A., Georgia Southern College, 1980 (1976)

HARRY JOSEPH ARLING, Professor Emeritus of Music

B.M., Southern Illinois University, 1965

M.M., Southern Illinois University, 1965

D.M., Indiana University, 1979 (1974)

DONALD J. ARMEL, Professor Emeritus of Art

B.S., Indiana State University, 1977

B.S., Indiana State University, 1978
 M.S., Indiana State University, 1980
 Ph.D., Southern Illinois University, 1995 (1996)

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B.S., Istanbul University, 1999
 M.S., Istanbul University, 2002
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 Ph.D., University of Minnesota, 2005 (2017)

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B.A., University of California-Santa Barbara, 2000
 B.S., University of California-Santa Barbara, 2000
 M.S.M.S., University of Texas-Austin, 2003
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B

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 M.A., University of North Carolina-Chapel Hill, 1970
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B.A., University of Arizona, 1979
 M.A., Southern Methodist University, 1987
 M.S., Drexel University, 1992 (2012)

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 M.S., Atlanta University

Sc.D., Nova University (1968)

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B.A., Brigham Young University, 1987
 M.A., Brigham Young University, 1989
 Ph.D., University of Colorado, 1994 (1995)

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B.S., Sharif University of Technology, 2004
 M.S., Amirkabir University of Technology, 2010
 Ph.D., University of Texas-Dallas, 2017 (2017)

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 Ph.D., Kansas State University, 2002 (1999)

***IOANNIS BARKOULAS, Professor of Finance**

B.B.A., School of Economic and Commercial Sciences in Athens, 1983
 M.B.A., West Texas State University, 1986
 Ph.D., Boston College, 1994 (2003)

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B.S., Georgia Southern College
 M.S., Georgia Southern College
 Ed.S., Georgia Southern College (1980)

***CHRISTOPHER R. BARNHILL, Associate Professor of Sport Management**

B.S.Ed., University of Tennessee-Knoxville, 2002
 M.B.A., East Tennessee State University, 2004
 Ph.D., The Ohio State University, 2011 (2018)

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B.A., University of North Carolina-Chapel Hill, 1968
 M.H.A., Duke University, 1974 (2018)

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 M.A., East Carolina University, 2005
 Ed.D., University of North Carolina-Chapel Hill, 2017 (2017)

***SHARON M. BARRS, Instructor of Mathematical Sciences**

B.S., University of South Carolina-Columbia, 1990
 M.S., University of South Carolina-Columbia, 1992 (2007)

ERICA BARTELS, Lecturer of Interior Design

B.S., Mississippi State University, 2003
 M.S., University of Nebraska-Lincoln, 2013 (2020)

***JEAN E. BARTELS, Provost and Vice President Emerita for Academic Affairs and Professor Emerita of Nursing**

B.S.N., Alverno College, 1981
 M.S.N., Marquette University, 1983
 Ph.D., University of Wisconsin-Milwaukee, 1990 (1999)

PRADIP BASNET, Visiting Assistant Professor of Physics

B., Tribhuvan University, 2001
 M., Tribhuvan University, 2005
 M.S., University of Massachusetts-Dartmouth, 2010
 Ph.D., University of Georgia, 2015 (2020)

***ROBERT K. BATCHELOR, Professor of History**

A.B., Cornell University, 1990
 M.A., University of California-Los Angeles, 1992
 Ph.D., University of California-Los Angeles, 1999 (2002)

CHARLOTTE BATES, Senior Lecturer of Medical Laboratory Science

B.S.B., Georgia Southern College, 1980
 M.Ed., Georgia Southern College, 1987
 B.S.M.T., Medical College of Georgia, 1991 (2008)

JERRY RAY BATES, Adjunct Assistant Professor of Military Science
 Captain, United States Army
 B.S., Methodist University, 2009 (2018)

DOROTHY A. BATTLE, Professor Emerita of Curriculum, Foundations, and Reading
 B.S.Ed., Winston Salem State College, 1970
 M.Ed., University of Georgia, 1983
 Ed.D., University of Georgia, 1987 (1990)

***LAUREN BAYLISS, Assistant Professor of Public Relations**
 B.A., Calvin College, 2008
 M.A., Virginia Tech, 2012
 Ph.D., University of Florida, 2017 (2017)

***LORENZA BEATI ZIEGLER, Curator, U.S. National Tick Collection, and Professor of Biology**
 M.D., University of Lausanne, 1987
 Ph.D., University of Lausanne, 1990
 Ph.D., University of Aix-Marseilles II, 1993 (2004)

***JASON S. BECK, Associate Professor of Economics**
 B.A., Bellarmine University, 2001
 M.A., Miami University, 2003
 M.S., University of Kentucky, 2009
 Ph.D., University of Kentucky, 2009 (2009)

***SCOTT A. BECK, Professor of Middle Grades and Secondary Education**
 A.B., Cornell University, 1988
 M.Ed., University of North Carolina-Greensboro, 1994
 Ph.D., University of Georgia, 2003 (2000)

JILL KATRICE BECKWORTH, Assistant Professor of Nursing
 B.B.A., Georgia Southern College, 1990
 A.S.N., Armstrong Atlantic State University, 1996
 B.S.N., Armstrong Atlantic State University, 2002
 M.S.N., Armstrong Atlantic State University, 2002
 D.N.P., Georgia Southern University, 2015 (2011)

***CHRISTINE NICOLE BEDORE, Assistant Professor of Biology**
 B.S., Michigan State University, 2007
 Ph.D., Florida Atlantic University, 2013 (2015)

***KEITH BELCHER, Professor of Medical Laboratory Sciences**
 B.S.Ed., Georgia Southern College, 1974
 M.S.T., Georgia Southern College, 1978
 Ph.D., Medical College of Georgia, 1988
 B.S.B., Auburn University, 2006 (2016)

WILLIAM L. BELFORD, Senior Lecturer of English
 B.A., Sewanee-University of the South, 1997
 M.F.A., University of Alabama-Tuscaloosa, 2001
 Ph.D., Florida State University, 2006 (2009)

DEBORAH A. BELL, Assistant Professor Emerita of Mathematical Sciences
 A.S., Abraham Baldwin Agricultural College, 1969
 B.S.Ed., University of Georgia, 1971
 M.Ed., University of Georgia, 1974
 Ed.S., Georgia Southern University, 1993
 Ed.D., Georgia Southern University, 2003 (1986)

***ALLISON BELZER, Associate Professor of History**
 B.A., Vassar College, 1993
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M.F.A., University of Georgia, 2015 (2016)

NANCY S. WRIGHT, Assistant Professor Emerita of English and Assistant Dean Emerita, College of Liberal Arts and Social Sciences

A.B., Emory University, 1964
M.Ed., Georgia Southern College, 1980 (1979)

***JI WU, Associate Professor of Chemistry**

A.S., Hefei University, 1994
M.S., Anhui University, 2000
Ph.D., Texas Christian University, 2007 (2012)

***LIANJUN WU, Assistant Professor of Manufacturing Engineering**

B.S., Chongqing University, 2010
M.S., Xi'an Jiaotong University, 2013
Ph.D., University of Texas-Dallas, 2017 (2018)

***TIEHANG WU, Associate Professor of Biology**

B.Agr., Shanxi Agricultural University, 1986
M.Agr., Nanjing Agricultural University, 1989
Ph.D., Pennsylvania State University, 2002 (2011)

***YAN WU, Professor of Mathematical Sciences**

B.S., Beijing Polytechnic University, 1992
M.S., University of Akron, 1996
Ph.D., University of Akron, 2000 (2000)

ERNEST TILLMAN WYATT, Associate Professor Emeritus of Communication Arts

A.B.J., University of Georgia, 1967
M.A., University of Georgia, 1975 (1975)

GAIL G. WYNN, Assistant Professor Emerita of Biology

B.S., Oglethorpe University, 1959
M.S., Louisiana State University and A&M College, 1962
Ph.D., Louisiana State University and A&M College, 1968 (1992)

X

***MINGZHI XU, Assistant Professor of Mechanical Engineering**

B.Eng., Xi'an Jiaotong University, 2010

Ph.D., Missouri University of Science and Technology, 2015 (2018)

***SHAOWEN XU, Associate Professor of Mechanical Engineering**

B.S., Huazhong University of Science and Technology, 1985
M.S., Huazhong University of Science and Technology, 1991
Ph.D., University of South Carolina-Columbia, 2003 (2009)

Y

***CANDACE THRESA YANCEY, Associate Professor of Psychology**

B.S., University of Alabama, 1999
M.A., University of Nebraska-Lincoln, 2002
Ph.D., University of Nebraska-Lincoln, 2006 (2008)

***BILL Z. YANG, Professor of Economics**

B.S., Wuhan University, 1982
M.A., Queen's University-Kingston, 1987
Ph.D., University of Iowa, 1993 (2000)

***XIAOMING YANG, Assistant Professor of Civil Engineering and Construction**

B.Eng., Tongji University, 2003
M.Eng., Tongji University, 2006
Ph.D., University of Kansas, 2010 (2018)

***MARK ANDREW YANOCHIK, Professor of Economics**

B.B.A., Kennesaw State College, 1989
M.S., Auburn University, 1993
Ph.D., Auburn University, 1997 (1999)

MARY E. YARBROUGH, Lecturer of Kinesiology

B.S.K., Georgia Southern University, 2013
M.S., Georgia Southern University, 2016 (2017)

***ROBERT A. YARBROUGH, Associate Professor of Geography**

B.A., Roanoke College, 1998
M.A., University of Georgia, 2001
Ph.D., University of Georgia, 2006 (2006)

***ARDA YENIPAZARLI, Associate Professor of Operations Management**

B.S., Sabanci University, 2007
Ph.D., University of Florida, 2012 (2012)

***JINGJING YIN, Associate Professor of Biostatistics**

B.A., Sichuan University, 2009
M.A., University of Buffalo, State University of New York, 2011
Ph.D., University of Buffalo, State University of New York, 2014 (2014)

DANIEL ANTHONY YONTO, Visiting Instructor of Geography

B.A., Marymount University, 2008
M.A., University of North Carolina-Charlotte, 2013
Ph.D., University of North Carolina-Charlotte, 2019 (2019)

ALFRED YOUNG, Professor Emeritus of History

B.A., Louisiana State University, 1970
M.A., Syracuse University, 1972
M.Phil., Syracuse University, 1976
Ph.D., Syracuse University, 1977 (1989)

***LILI YU, Associate Professor of Biostatistics**

M.D., Tianjin Medical University, 1995
M.S., Capital University of Medical Sciences, 2001
M.S., The Ohio State University, 2004
Ph.D., The Ohio State University, 2007 (2007)

Z

***JOANNE ZANETOS, Assistant Professor of Nursing**

A.A.S., Columbus State Community College, 1976

B.S.N., Capital University, 2006

M.S.N., Capital University, 2010

D.N.P., Duquesne University, 2013 (2017)

SEBASTIAN A. ZARASUA, Adjunct Assistant Professor of Military Science

Sergeant First Class, United States Army (2019)

BENJAMIN H. ZELLNER, Professor Emeritus of Physics

B.S., Georgia Institute of Technology, 1964
Ph.D., University of Arizona, 1970 (1994)

***CORINNA ZELTSMAN, Assistant Professor of History**

B.A., Wesleyan University, 2006
M.A., Duke University, 2013
Ph.D., Duke University, 2016 (2017)

***JENNIFER A. ZETTLER, Professor of Biology**

B.S., University of Florida, 1994
M.S., Clemson University, 1996
Ph.D., Clemson University, 2002 (2002)

HAO ZHANG, Instructor of Information Technology

B.Ed., Wuhan University, 2004
M.Phil., Wuhan University, 2006
D.S.C., Wuhan University, 2009
M.S.A.E., Georgia Southern University, 2018 (2017)

***HONG ZHANG, Professor of Computer Sciences**

B.S., Fudan University, 1982
M.S.E.E., University of Pittsburgh, 1984
M.A., University of Pittsburgh, 1986
Ph.D., University of Pittsburgh, 1989 (2002)

***JIAN ZHANG, Professor of Epidemiology**

B.M., Shanxi Medical University, 1989
Dr.P.H., University of South Carolina-Columbia, 2002 (2008)

***PIDI ZHANG, Associate Professor of Sociology**

M.A., Tianjin Foreign Languages Institute, 1986
M.A., University of South Carolina-Columbia, 1993
Ph.D., University of South Carolina-Columbia, 1997 (1997)

***RONGRONG ZHANG, Professor of Finance**

B.B.A., Hefei University of Technology, 1997
M.S., University of Tennessee-Knoxville, 2000
Ph.D., University of Tennessee-Knoxville, 2004 (2005)

***WEN-RAN ZHANG, Professor of Computer Science**

B.S., Shanxi Mining Institute, 1976
M.S., University of South Carolina-Columbia, 1984
Ph.D., University of South Carolina-Columbia, 1986 (2001)

***YUE ZHANG, Assistant Professor of Manufacturing Engineering**

B.S., Beijing University of Chemical Technology, 2008
M.S., Texas Tech University, 2010
Ph.D., Texas Tech University, 2013 (2018)

ZUOTANG ZHANG, Senior Lecturer of Chinese

B.A., Ningxia University, 1982
M.A., Missouri State University, 1998
Ph.D., University of Maryland-Baltimore County, 2014 (2013)

***CHUNSHAN ZHAO, Professor of Mathematical Sciences**

B.S., Lanzhou University, 1994
M.S., Xi'an Jiaotong University, 1997
Ph.D., University of Iowa, 2006 (2006)

***SHIJUN ZHENG, Professor of Mathematical Sciences**

M.S., Nanjing University, 1993
M.A., University of New Mexico, 1997

Ph.D., University of Maryland-College Park, 2003 (2007)

***JIEHUA ZHU, Professor of Mathematical Sciences**

B.S., Hubei University, 1988
M.S., Zhongshan University, 1991
Ph.D., University of Iowa, 2005 (2005)

***FRANCOIS ZIEGLER, Assistant Professor of Mathematical Sciences**

Diploma, Federal Polytechnic School of Lausanne, 1988
Ph.D., Aix-Marseille I University, 1997 (2004)

***REBECCA LEA ZIEGLER, Reference Librarian Emerita and Associate Professor Emerita**

B.A., University of Chicago, 1972
M.A., University of California-Los Angeles, 1976
Ph.D., University of California-Los Angeles, 1985
M.L.S., University of California-Los Angeles, 1989 (1990)

***CORDELIA D. ZINSKIE, Professor of Curriculum, Foundations, and Reading**

B.A., Millsaps College, 1983
M.S., Memphis State University, 1985
Ed.D., Memphis State University, 1988 (1993)

SHARAN D. ZIRGES, Assistant Professor and Director of Clinical Education, Physical Therapy

B.S., Virginia Commonwealth University, 1984
B.S., Old Dominion University, 1986
M.S.H.A., Virginia Commonwealth University, 2010
D.P.T., A.T. Still University, 2016 (2019)

***JENNIFER RENEE ZOROTOVICH, Associate Professor of Child and Family Development**

B.S., University of Georgia, 2007
M.S., University of Tennessee-Knoxville, 2010
Ph.D., University of Tennessee-Knoxville, 2014 (2014)

YUTING ZOU, Lecturer of Mathematical Sciences

B.S., Xiamen University, 2004
Ph.D., Michigan State University, 2011 (2015)

***ALAN DREW ZWALD, Professor of Kinesiology**

B.S., College of William and Mary, 1973
M.S.P.E., Ohio University, 1983
Ph.D., Ohio University, 1985 (1994)

Admissions and Financial Aid

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- Fees (p. 615)
- Financial Aid (p. 619)
- Tuition (p. 622)

Undergraduate Admissions

- Beginning Freshmen (<http://catalog.georgiasouthern.edu/undergraduate/admissions/beginning-freshmen/>)
- Credit by Examination (<http://catalog.georgiasouthern.edu/undergraduate/admissions/credit-by-examination/>)
- Dual Enrollment at Georgia Southern (<http://catalog.georgiasouthern.edu/undergraduate/admissions/dual-enrollment/>)
- International Student Admission (<http://catalog.georgiasouthern.edu/undergraduate/admissions/international-student-admission/>)
- Post-Baccalaureate Admission (<http://catalog.georgiasouthern.edu/undergraduate/admissions/post-baccalaureate-admission/>)
- Proficiency Exams (<http://catalog.georgiasouthern.edu/undergraduate/admissions/proficiency-exams/>)
- Readmission Policy (<http://catalog.georgiasouthern.edu/undergraduate/admissions/readmission-policy/>)
- Required High School Curriculum (<http://catalog.georgiasouthern.edu/undergraduate/admissions/required-high-school-curriculum/>)
- Special Admission for Adult and Non-Traditional Students (<http://catalog.georgiasouthern.edu/undergraduate/admissions/special-admission-mature-non-traditional-students/>)
- Special Admission for Students Age 62 and Older (<http://catalog.georgiasouthern.edu/undergraduate/admissions/special-admission-students-age-62-older/>)
- Transfer Admission (<http://catalog.georgiasouthern.edu/undergraduate/admissions/transfer-admission/>)
- Transfer Credit/Military Credit (<http://catalog.georgiasouthern.edu/undergraduate/admissions/transfer-credit-military-credit/>)
- Transient Admission (<http://catalog.georgiasouthern.edu/undergraduate/admissions/transient-admission/>)

Graduate Admissions

- Admission Requirements (p. 242)
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Application Procedures

To apply for any Federal Title IV aid:

- Complete and submit an Application for Admission to attend Georgia Southern University.
- Complete a Free Application for Federal Student Aid (FAFSA) online at <http://www.fafsa.ed.gov/>, for EACH year of enrollment. Be sure to list Georgia Southern University's federal school code, 001572, on the form.

- February 1 of each year is the preferred filing date for financial aid. Applicants not filing by this date may not have funds available by the Fall semester fee payment deadline, which is the first day of class.

More detailed information about financial aid programs can be obtained by viewing our website at <http://em.georgiasouthern.edu/finaid> or by emailing the Office of Financial Aid at finaid@georgiasouthern.edu.

Fees

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- EAGLEXPRESS and Eagle Card Services (p. 616)
- Graduation Fee (p. 617)
- Late Registration Fee (p. 617)
- Parking and Transportation (p. 617)
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Business Regulations

The academic year is divided into two semesters of approximately 15 weeks each and a summer semester of approximately 12 weeks. Fees are charged and payable by the semester since each semester constitutes a separate unit of operation. A student may enroll at the beginning of any semester.

To ensure financial operation is in conformity with Board of Regents policies, fee payment regulations must be observed. All fees and charges are due and payable by the first official day of class for the semester for the University; charges incurred during the Drop/Add period are due immediately. Students are responsible for checking their account balance via Touchnet available in <https://my.georgiasouthern.edu/> and ensuring fee payment by the published fee payment due dates. Fees and charges may be paid by cash, by check, online by free webCheck or by MasterCard, American Express, Discover and Visa in the exact amount of the student's statement. Payment by credit card must be made via Touchnet and is subject to a 2.85% processing fee. Nonpayment of all fees and charges by the first day of university classes could result in the cancellation of all classes. If a student's financial aid is not available to pay all fees by the designated due date, he/she must be prepared to pay tuition and fees then be reimbursed when financial aid is available. Should a student decide not to attend Georgia Southern University or cease to attend during the semester, he/she will continue to be fee liable until officially withdrawing from the University. (See refunds and withdrawals for more information.) PLEASE NOTE, NO STATEMENTS ARE MAILED; STATEMENTS ARE AVAILABLE ONLINE ONLY VIA TOUCHNET AT THE ABOVE WEB ADDRESS.

Any amounts owed to the University that are not cleared when due will be subject to reasonable collection fees that could include collection agency fees, attorney fees, court costs and other charges necessary for the collection of the debt. In addition, a financial hold will be added to the account that will prevent any changes to current or future registration and access to transcripts.

The University reserves the right to make changes in its fees, which are regulated by the Georgia Board of Regents, at the beginning of any semester and without previous notice.

EAGLEXPRESS and Eagle Card Services

EagleXpress® is a premier declining balance system conveniently accessible through your Eagle Card. Available at more than 70 on and off-campus vendors, EagleXpress® can be used to pay for everything from textbooks and school supplies to food and groceries. Use EagleXpress® at campus dining locations, the University Store, Armstrong Bookstore, Printing and Postal Services, Tech Corner, health Services and even Parking and Transportation.

Students, parents, faculty and staff can easily deposit funds to an EagleXpress® account online through eAccounts (<https://georgiasouthern-sp.blackboard.com/eAccounts/AnonymousHome.aspx>), in-person at Eagle Card Services, or at one of our convenient campus kiosks. Funds may be loaded with cash, money order, check, MasterCard, Visa or American Express.

Mail checks or money orders to:

Eagle Card Services
P.O. Box 8079
Georgia Southern University
Statesboro, GA 30460-8079

You can also log into your eAccount (<https://georgiasouthern-sp.blackboard.com/eAccounts/AnonymousHome.aspx>) to get a statement of your EagleXpress® account activity for the last 30 days. Money in your EagleXpress® account never expires, and it can be used any time of the year both on and off campus. EagleXpress® is not a banking system, and cash cannot be withdrawn from the account. Refunds will be issued by check after the end of each semester by written request only.

- EagleXpress cannot be used to purchase alcoholic beverages, tobacco, firearms, piercings, tattoos, tanning or gift cards.
- EagleXpress is accepted at 70+ locations throughout the area
- Students receive a 5% discount at all on-campus dining locations when using EagleXpress.

You will find EagleXpress® is a great way to manage money needed to buy books, meals and other Georgia Southern goods and services.

EagleXpress® Packages

Beginning each semester, the Eagle Card Center offers students the ability to add EagleXpress Packages to their invoices prior to the first financial aid disbursement. Descriptions of the EagleXpress Packages are listed below. Students may register for one of the EagleXpress Packages by stopping by the Eagle Card Center, through the EagleXpress web portal at eaglecard.georgiasouthern.edu, (<http://eaglecard.georgiasouthern.edu/>) or their my.georgiasouthern.edu (<https://my.georgiasouthern.edu/>) account

EagleXpress 350	\$350 on your EagleXpress +10% in Dining Dollars (\$35)	\$350.00 ¹
EagleXpress 700	\$700 on your EagleXpress +10% in Dining Dollars (\$70)	\$700.00 ¹

¹ Please visit the Eagle Card Center website at eaglecard.georgiasouthern.edu (<http://eaglecard.georgiasouthern.edu/>) for current EagleXpress Package pricing.

EagleXpress® Dining Plans

Eagle Dining Services offers a variety of options for students, faculty, and staff to enjoy a great dining experience on Georgia Southern University's campuses.

	EAGLE GOLD	EAGLE BLUE*	EAGLE FIVE	EAGLE THREE
Access to Residential Dining	19 meals per week	14 meals per week	5 meals per week	3 meals per week
Dining Dollars per Semester	300 D\$	100 D\$	—	—
Price	\$1750	\$1500	\$660	\$395

Prices are per semester. *Minimum for freshmen students.

Dining plans will change for fall 2020 to allow adequate social distancing and ensure customer safety. Each student with a dining plan will have a certain amount of swipes into the residential dining facilities and Dining Dollars (D\$) they can use at retail dining locations such as Starbucks, Chick-fil-A, Southern Cafe and more.

EagleXpress® Budget Bucks

Georgia Southern students can easily manage their dining spending through flexible Budget Bucks plans. Each of plan receives a predetermined amount of Budget Bucks per week for sixteen (16) weeks throughout the semester. Every Monday, accounts are reloaded with the selected amount, good at any Eagle Dining Services location.

	Budget Bucks 480	Budget Bucks 960
Access to Residential Dining	\$8.75 per entry	\$8.75 per entry
Reload Amount	\$30 per week/16 weeks	\$60 per week/16 weeks
Price	\$480	\$960

If Budget Bucks have not been used by the end of the week, the remaining balance will be credited to the following week's balance. At the end of each semester, remaining balances are automatically credited to the following semester.

Graduation Fee

A graduation fee of \$35 for graduate and undergraduate students must be paid by the end of the semester in which the student completes requirements for graduation. This fee includes application processing, payment for diploma, and mailing fee; separate payment by the student to the vendor for graduation attire will be required for those participating in the ceremony. Any outstanding financial obligations to the University (Bursar's Office, Parking, Health Services, Library, etc.) must be paid before a student can obtain a transcript.

A \$75-150 late graduation fee will be assessed to graduate students who miss the posted deadline to apply for graduation for the semester they expect to graduate. The deadline for which no further late applications will be accepted or processed is posted in the university calendars.

Late Registration Fee

Undergraduate and graduate students who complete registration after the published registration day at the beginning of each semester will be charged a non-refundable late registration fee of \$100.

The College of Graduate Studies Continuous Enrollment policy requires students to be enrolled continuously in those programs that require a thesis or dissertation. Should a student not register each semester as required by the continuous enrollment policy, the student will be required to register and pay tuition and fees for the missed semesters. Tuition and fee payment is due for the missed registration semesters at the beginning of the semester the student resumes his/her study, providing the student is eligible to return and resume registration.

Parking and Transportation

The Parking and Transportation division of Auxiliary Services at Georgia Southern University is here to help aid your parking and transit needs. Parking and Transportation is responsible for the implementation and enforcement of the University's parking regulations, as well as the placement and maintenance of parking and traffic control devices. Visit auxiliary.georgiasouthern.edu/parking/ (<https://auxiliary.georgiasouthern.edu/parking/>) for parking, permit, and transit information, lot status and all updates.

Parking Permits

Virtual parking permits are sold only to currently enrolled students, faculty and staff on a first-come, first-served basis. Students should use their [My.GeorgiaSouthern.edu](https://my.georgiasouthern.edu) (<https://my.georgiasouthern.edu>) accounts or visit the Parking and Transportation offices on the Statesboro and Armstrong campuses to purchase their permits. Simply login to [My.GeorgiaSouthern.edu](https://my.georgiasouthern.edu) (<https://my.georgiasouthern.edu>) and click on the "Parking Permits & Citations" link under "Parking and Transportation," to purchase permits online. Students with a lot preference should purchase their permits as early as possible.

License Plate Recognition

Our Parking and Transportation division utilizes License Plate Recognition (LPR) software, which makes the permit system at the University completely virtual and decal-free. Your license plate acts as your permit and is simply scanned by an LPR vehicle to verify parking status. The implementation of LPR means vehicles cannot be pulled through or backed into spaces.

When entering your license plate information, please make sure to key in the exact license plate completely and correctly. The LPR system cannot recognize incomplete or incorrect plates, and this could result in a citation.

Commuter Lots

Statesboro Campus commuters may purchase a parking permit designated to a specific commuter lot for \$160 per year (Lot 12 or RAC is \$110 per year). Commuters on the Armstrong Campus may purchase a commuter parking permit for \$50 per year and may park in any commuter lot on that campus.

Permit holders can utilize 30-minute parking between the hours of 8 a.m. and 3 p.m. on both the Statesboro and Armstrong campuses.

RAC & Stadium Parking

Permit parking at the RAC on the Statesboro Campus is enforced between the hours of 8 a.m. and 3 p.m. You may park at the RAC with ANY Georgia Southern University parking permit. For those attending classes or who wish to work out during these hours without a parking permit, parking is available for free at the stadium, and a bus route will take you directly from that lot to the RAC or any other destination along our shuttle routes.

Carpool Program

Two or more students on the Statesboro Campus may purchase a carpool permit at a reduced rate of \$110 per year. Carpool permits may be shared among several vehicles on this campus, although vehicles cannot be on campus at the same time.

Resident Lots

Students living on the Statesboro Campus have a residential parking permit reserved for them corresponding to their specific residence hall designated lot when they purchase their permits (\$160/year). These students should purchase their permits before arriving for Operation Move-In (OMI).

The price of a parking permit for students living on the Armstrong Campus will be included in the Housing fee. Simply register your vehicle through [My.GeorgiaSouthern](https://my.georgiasouthern.edu) to reserve your parking permit. On-campus residents may park in any Residential lot only. When visiting the Statesboro Campus, Armstrong Campus students may park at the Stadium or Recreation Activity Center (RAC).

Motorcycles

Motorcycle permits are required for all motor-driven cycles including motorcycles, scooters, mini-bikes, motorbikes and mopeds (whether they be two or three-wheeled, with any engine size). Motorcycles should only be parked in designated motorcycle spots.

Visitors and Guests

Visitors and guests should visit the Parking & Transportation Office on the Statesboro or Armstrong Campus to get a temporary parking permit for \$2 per day. Students may not park in visitor spots for any reason.

Paying Citations

Paying for citations is done through the Parking and Transportation web portal. To access the portal, log in to My.GeorgiaSouthern (<https://my.georgiasouthern.edu>). Under "My Services," select the "Parking Permits & Citations" link under "Parking and Transportation." Once logged in, you will be able to view permit information, contact information, registered vehicles and any outstanding balances.

Zipcar

Zipcar is available to all Georgia Southern University students, faculty and staff over the age of 18. Zipcar is an alternative to bringing a car to school and gives members 24/7 access to vehicles parked right on the Statesboro Campus. Low hourly and daily rates include gas, insurance and 180 miles per day to go wherever you want to go! Members can reserve cars online or with a smartphone for as little as an hour or up to four days. Enjoy all the freedom of owning a car without any of the hassle. Find out more about how it works at www.zipcar.com/universities/georgia-southern-university (<https://www.zipcar.com/universities/georgia-southern-university/>).

Transit Service

Our transit service runs across the Statesboro Campus during classes, final exams, football game days and spring commencement to shuttle around on-site parking areas. The transit service does not run when classes are not in session, during holidays and between semesters. Buses run between 7 a.m. and 9 p.m. Monday-Thursday, 7 a.m. to 6 p.m. and on Fridays and 4-9 p.m. The transit service is funded by a mandatory transportation fee charged each semester.

Liberty Campus Students

Students from the Liberty Campus are not required to purchase a parking permit to park on the Liberty Campus; however, they will need to get a temporary pass when visiting other Georgia Southern campuses. Visit parking.georgiasouthern.edu or see a staff member at the Parking & Transportation office to get your temporary pass.

Hours

Monday - Friday: 8 a.m. - 5 p.m.
parking@georgiasouthern.edu

Statesboro Campus

Parking and Transportation
P.O. Box 8059
Statesboro, GA 30460
Phone: (912) 478-7275

Armstrong & Liberty Campuses

Eagle Card & Parking Office
11935 Abercorn Street
Savannah, GA 31419
Phone: (912) 344-2837

Returned Check Procedure

Checks (paper or electronic) returned for any reason will be handled in accordance with the state laws of Georgia and the Board of Regents of the University System of Georgia policies. Returned items will be assessed a service fee of \$30.00, or 5% of the face value of the check, whichever is greater, and a hold will be placed on the student's record. The University will notify the student (maker) of the returned item via certified mail detailing the payment options available.

Tuition/fee payments returned as unsuccessful are subject to administrative processes such as cancellation and/or administrative withdrawal.

After three checks (paper or electronic) have been returned, the student's (maker's) privilege of writing checks to the University will be suspended.

All amounts owed to the University that are not cleared when due will be subject to reasonable collection fees which could include collection agency fees, attorney fees, court costs and other charges necessary for the collection of the debt.

Technology Fee

A per semester Technology Fee is charged to all Georgia Southern University students (excluding those enrolled in Graduate Online Degree Programs). This fee is used to develop and maintain student computer systems and laboratories. A Technology Fee Advisory Board, with student representation, makes decisions regarding the use of this fee.

Textbooks and Supplies

The University Store offers all required textbooks and basic supplies Georgia Southern University students need for their courses. By selling new textbooks, used textbooks and eBooks, as well as offering competitive pricing and rental programs, the University Store gives students multiple purchasing options. Depending on course selection, the average cost range per semester is approximately \$300 to \$600. Accepted forms of payment are: cash, check, MasterCard, Visa, Discover, American Express, University Store gift cards and EAGLEXPRESS (<https://auxiliary.georgiasouthern.edu/eaglecard/eaglexp/>). Students whose financial aid exceeds their tuition and fees, housing and meals are allowed to charge their required books and supplies at the University Store in the amount of the lesser of their excess financial aid or \$600. Please contact the University Store for the bookstore financial aid availability each semester. You may see the amount of bookstore financial aid available to you on your mygeorgiasouthern.edu account when the credit is open near the start of a term. These charges are then added to the student's bursar account and paid for out of the student's financial aid funds. The University Store offers a wide selection of course material options in store and online at GSUStore.com (<http://gsustore.com>).

We offer multiple textbook purchasing options selling both new and used books and eBooks. We also offer book rentals that can save students up to 75% off of new book costs. Georgia Southern University faculty work directly with the store to ensure a complete selection of required materials, and unlike other stores and websites, we only sell the correct and complete editions of textbooks and course materials that are requested by the instructor. For your convenience, books can be purchased via your WINGS account or via our website at GSUStore.com (<http://gsustore.com>). Books and course materials may be purchased with financial aid - all you need is your Eagle ID. Our textbook buyback program, puts money back in your hands. If a book is required for a course during the following semester, the store will pay you up to 50% of the book's retail value.

Transportation Fee

A per semester Transportation Fee is charged to Georgia Southern University Statesboro students as part of their University Fees (See University Fees) (p. 619). This fee is used to fund Transit Services provided to students allowing them to park at Paulson Stadium and utilize the transit system on and around campus. For additional information, please call the Parking Office at (912) GSU-PARK (912-478-7275) or visit our web site at auxiliary.georgiasouthern.edu/parking/ (<http://auxiliary.georgiasouthern.edu/parking/>).

Tuition and Fee Refunds

Please click the link [Withdrawal and Return of Title IV Financial Aid Funds Policy](https://drive.google.com/file/d/13F_bmCeOPf4LzthzQMDjESoNq70G5Ou5/view/) (https://drive.google.com/file/d/13F_bmCeOPf4LzthzQMDjESoNq70G5Ou5/view/) to view information regarding Tuition and Fee Refunds.

University Fees

Cultural, social and athletic activities, good health care and transportation services are important parts of the University's program and a student's educational environment. In order to provide these activities and services, a per semester University Fee is charged. All students must pay this fee unless they are registered for fewer than four credit hours or enrolled in all off-campus courses.

An Institution Fee is assessed each semester to all students enrolled for that semester, regardless of class, residency, or program of study. This is a mandatory fee set by the Board of Regents.

The current academic year's rates can be found on the Tuition and Fees (<https://finserv.georgiasouthern.edu/bursar/office-of-student-accounts/tuition-and-fees/>) website.

Financial Aid

Georgia Southern University offers a comprehensive program of financial aid for students who, without such aid, would be unable to continue their education. Through this program an eligible student may receive one or more types of financial aid: Grants, Loans, Scholarships, or Student Employment. Most financial aid at Georgia Southern University is awarded on the basis of a student's academic progress and proven "financial need," defined as the difference between a family's estimated resources and the total estimated expense of attending the University. Georgia Southern University uses the Free Application for Federal Student Aid (FAFSA) form provided by the U.S. Department of Education to measure a student's financial aid eligibility. Contact the Office of Financial Aid at (912) 478-5413 for assistance. The Office of Financial Aid, part of the Division of Enrollment Management, is located on the second floor of Rosenwald Building on the Statesboro campus, and on the second floor of Victor Hall on the Armstrong campus. The fax number is (912) 478-7418.

Mailing address:

Office of Financial Aid
P.O. Box 8065
Georgia Southern University
Statesboro, Georgia 30460-8065
<http://em.georgiasouthern.edu/finaid> (<http://em.georgiasouthern.edu/finaid/>)

Four types of financial aid:

1. **Grants** - Federal, state and privately funded grant programs are available.

2. **Loans** - Loan programs are available from federal, state, and private agencies.
3. **Scholarships** - Georgia Southern University offers a limited number of academic scholarships to its students.
4. **Student Employment** - Federally-funded College Work-Study Program, or Institutional Work Program.

- Grant Programs (p. 619)
- Loan Programs (p. 620)
- Other Financial Assistance (p. 621)
- Qualifying for Financial Aid (p. 622)
- Refunds for a Student Receiving Federal Title IV Financial Assistance (p. 622)

Grant Programs

(All grant program amounts are subject to change.)

State Grants

The Georgia Student Finance Commission administers state scholarships and student grant programs. For information contact:

Georgia Student Finance Commission
2082 East Exchange Place, Suite 200
Tucker, GA 30084
(800) 505-4732, or
<http://www.Gafutures.org/> (<http://www.Gacollege411.org/>)

The **Public Safety Memorial Grant** is an award for children of Georgia law enforcement officers, firemen, and prison guards who have been permanently disabled or killed in the line of duty. The grant covers the cost of attendance minus other aid, but may not exceed \$18,000 per award year.

Federal Grants

Federal Pell Grant

The Federal Pell Grant is the primary federal student aid program administered by the U.S. Department of Education. It is intended to be the first and basic component of an undergraduate student's financial aid package. To be eligible, students:

- Must show financial need, an EFC between 0 and 5846.
- Must be enrolled in an approved undergraduate course of study and must not have a bachelor's degree.
- Must be a U.S. citizen or an eligible non-citizen as defined in the instructions on the Free Application for Federal Student Aid (FAFSA).

The Federal Pell Grant may be received each academic year up to a maximum of 12 semesters. The maximum Federal Pell Grant for 2021/2022 is \$6495 for eligible students. Award amounts are prorated based on the number of credit hours for which a student is enrolled. For additional information visit our website at <http://em.georgiasouthern.edu/finaid> (<http://em.georgiasouthern.edu/finaid/>).

Federal Supplemental Education Opportunity Grant (FSEOG)

The Federal Supplemental Education Opportunity Grant (FSEOG) is a federal program administered by the Office of Financial Aid to assist undergraduate students with financial need. For additional information visit our website at <http://em.georgiasouthern.edu/finaid>. (<http://em.georgiasouthern.edu/finaid/>) To be eligible, students:

- Must show substantial financial need by using the FAFSA form.
- Must be eligible for Federal Pell Grant.
- Must be enrolled in an undergraduate course of study, and must not have a bachelor's degree. The standard grant amount awarded is \$600 per academic year. The federal funding for this program is limited; therefore, funds are depleted rapidly.

Teacher Education Assistance for College and Higher Education (TEACH) Grant

This program provides grant assistance to juniors, seniors, and graduate students who have been accepted into the College of Education in specified "high-need" fields and who have a 3.25 GPA or better. Students who receive the TEACH Grant must fulfill a service obligation. If a student does not complete the service obligation, all TEACH Grant funds received will be converted to a Federal Direct Unsubsidized Loan.

Iraq and Afghanistan Service Grant (IASG)

Funds are awarded to students whose parent or guardian was a member of the U.S. Armed Forces and died as a result of military service performed in Iraq or Afghanistan after the events of 9/11. To qualify, the student must be under the age of 24 or enrolled in college at least part-time at the time of the parent's or guardian's death. Students who qualify for the full Federal Pell Grant cannot receive the IASG. The award amount is equal to the amount of the maximum Pell Grant for the academic year, with a federal sequestration-required reduction of 6.2 percent.

Loan Programs

Federal Direct Lending Program

Georgia Southern University participates in the Federal Direct Lending Program. Loan funding comes directly from the U.S. Department of Education to students through the Federal Direct Stafford Loan Program and to the parents through the Federal Direct PLUS (Parent Loan for Undergraduate Students) Program. When loans are due, borrowers will repay them directly to the federal government through the loan servicer. Additional information is available at <https://studentaid.ed.gov/sa/>.

The Federal Direct Stafford Loan Program provides low-interest, long-term loans through the University. Funding for these loans comes from the U.S. Department of Education. These loans may be subsidized or unsubsidized. Eligible students must be admitted and enrolled in good standing at least half-time in a program leading to a degree. Half-time is defined as 6 credit hours for undergraduates.

The amount students may borrow is determined by federal guidelines. The following are federal maximum amounts that students are allowed to borrow:

- Freshmen (those who have not completed 30 earned credit hours) - \$5,500 yearly; maximum subsidized amount = \$3,500 yearly
- Sophomores (30-59 earned credit hours) - \$6,500 yearly; maximum subsidized amount = \$4,500 yearly
- Juniors or Seniors (60 + earned credit hours) - \$7,500 yearly; maximum subsidized amount = \$5,500 yearly

Repayment normally begins six months following graduation or when dropping below half-time enrollment. Payments and the length of the repayment period depend upon the amount of the student's indebtedness. Under special circumstances, repayment of a Federal Direct Stafford Loan that is not in default may be deferred or canceled. Repayment, deferment, and cancellations are handled by a federal loan servicer.

If the student is eligible for a Federal Direct Stafford Loan, one will be awarded (either subsidized or unsubsidized, or a combination of both) as part of the financial aid package. The student must then access their

WINGS account to accept, deny, or reduce the loan(s). Please read the following paragraphs to learn the differences between the subsidized and unsubsidized Federal Direct Stafford Loans. First-time borrowers are required to complete entrance loan counseling and electronically sign a master promissory note. For additional information visit our website at <http://em.georgiasouthern.edu/finaid/>. (<http://em.georgiasouthern.edu/finaid/>)

Subsidized Federal Direct Stafford Loan

The amount of subsidized Federal Direct Stafford Loan a student may borrow is the difference between the cost of education (annual budget) and a student's resources (family contribution, financial aid such as Federal College Work-Study, and any other assistance received from the school and outside resources including scholarships). However, a student may not borrow more than the federal maximum for his/her grade level.

If a student is eligible for a subsidized Federal Direct Stafford Loan, the government will pay the interest until graduation or until enrollment drops below half-time. The student will be assessed a loan origination fee, which is deducted from the loan proceeds but will not reduce the principal balance required to repay. For additional information visit our website at <http://em.georgiasouthern.edu/finaid/>.

Unsubsidized Federal Direct Stafford Loan

The unsubsidized Federal Direct Stafford Loan can replace all or part of the family contribution. However, the amount of the loan may not be more than the difference between the cost of education and any financial assistance received from the school and any outside source (including the subsidized Federal Direct Stafford Loan).

The interest rate is variable but will not exceed 8.25 percent. Interest accrues on the unsubsidized Federal Direct Stafford Loan while the student is in school and during the six-month grace period before repayment begins. The student has the option of paying the interest monthly, quarterly, or having the interest added to the principal. The student will be assessed a loan origination fee, which is deducted from the loan proceeds but will not reduce the principal balance required to repay. For additional information visit our website at <http://em.georgiasouthern.edu/finaid/>.

Additional Unsubsidized Federal Direct Stafford Loan

If the student is an independent undergraduate or a dependent student whose parents are denied for a PLUS Loan, the student may borrow an additional unsubsidized Stafford loan as follows: freshmen and sophomores may borrow a maximum of \$4,000 per academic year; juniors and seniors may borrow a maximum of \$5,000 per academic year, not to exceed the cost of education. For additional information visit our website at <http://em.georgiasouthern.edu/finaid/>. (<http://em.georgiasouthern.edu/finaid/>)

Federal Direct Parent Loan for Undergraduate Students

If a student is considered dependent, he/she may be eligible for a Federal Direct Parent Loan for Undergraduate Students (PLUS) to assist in covering the education expenses. This loan is funded by the U.S. Department of Education. The borrower will be the student's parent (or stepparent), and a credit check will be conducted on the applicant. The maximum PLUS loan amount for an academic year is determined by subtracting all financial aid (including Stafford loans) from the annual cost of attendance.

The interest rate on the Federal Direct PLUS is variable but will not exceed 10.5 percent. The parent borrower has the option to begin repayment on the PLUS loan either 60 days after the loan is fully disbursed or to wait

until six months after the dependent student ceases to be enrolled at least half-time. A loan origination fee is deducted from each disbursement of a PLUS loan. These charges do not reduce the amount required to repay. PLUS applications are processed through <https://studentaid.gov> (<https://studentloans.gov/myDirectLoan/index.action/>). For additional information visit our website at <http://em.georgiasouthern.edu/finaid/>.

Georgia Student Access Loan (SAL)

The Georgia Student Access Loan (SAL) is a limited resource loan program that is designed to assist undergraduate students who have a gap in meeting their educational costs. The program is also designed to provide interest rate and repayment incentives to those who complete their program of study within the designed program length, work in select public service sectors or STEM fields. To qualify, students must be Georgia residents and United States citizens or eligible non-citizens. Students must have first applied for and exhausted all other student financial aid programs including federal and state student loans, scholarship and grant programs. Students must complete a SAL application at <https://www.gafutures.org/>, and are randomly selected to participate in the program.

The amount that students may borrow is determined by state guidelines. The minimum loan amount is \$500. The maximum loan limit is \$8,000 per year up to a maximum of \$36,000 over a college lifetime. A non-refundable \$50 origination fee is deducted from the first disbursement of each loan.

The interest rate is one percent (1%) for the life of the loan, and begins accruing at the time of the first disbursement. The borrower must fulfill the loan obligation, including repayment requirements, as specified in the Promissory Note to maintain the loan at a one percent (1%) interest rate.

Repayment is a maximum of fifteen (15) years with a minimum payment of \$50.00 per month. For additional information and application procedures, refer to <https://www.gafutures.org/>.

Georgia National Guard (GNG) Service Cancelable Loan

The Georgia National Guard (GNG) Service Cancelable Loan provides financial assistance to eligible members of the Georgia National Guard to be used towards the cost of tuition for undergraduate and graduate programs at an eligible postsecondary institution. The student must agree to serve in the Georgia National Guard for a period of two years to complete service repayment. The purpose of the program is to encourage qualified individuals to join the GNG and retain skilled citizens within the state.

Private/Alternative Loans

A private/alternative loan is a non-federal education loan through a private lender usually in the student's name that may require a co-signer. These loans are not subsidized and generally have different eligibility requirements, interest rates, repayment options and conditions. Because private/alternative loans vary, the Georgia Southern Financial Aid Office cannot provide the most accurate and useful information regarding these loans. We strongly suggest comparing interest rates, loan fees, and repayment options before applying.

Other Financial Assistance

The academic progress of students receiving federal financial assistance from the programs listed earlier in this narrative must be evaluated by the criteria outlined in this policy. These and other students receiving other types of financial assistance are evaluated based on requirements of the applicable financial assistance program.

Athletes

The Georgia Southern University Athletic Department administers student athletic scholarships. Student athletes who are eligible to receive institutional and/or Federal aid must comply with NCAA regulations. Student athletes interested in receiving financial aid in addition to their athletic scholarship must complete the appropriate application process.

Co-op and Internship Program

The Co-op and Internship Program at Georgia Southern University encompasses both cooperative education and internship opportunities for students in all majors. Co-ops and internships provide an opportunity for students to evaluate whether their chosen career path or field of study is a good fit for them, develop their professional skills, and apply their academic knowledge while obtaining valuable real world experience in their field. The Office of Career and Professional Development at Georgia Southern University is committed to recruiting and promoting co-op and internship opportunities for all students and provides a centralized contact for both academic and non-academic related issues associated with experiential learning for all colleges and majors.

In order to participate in the Co-op and Internship Program, students must be in good academic standing with the University and must agree to the requirements of the program which include completing an Experiences application in Handshake, signing a Code of Conduct and a Waiver of Liability. Additionally, students must provide the Office of Career and Professional Development with an offer letter from their employer. The compensation package offered to the student is determined by the employer and board and lodging are the responsibility of the student. If students are not completing a co-op or internship for academic credit, then they will be enrolled in non-academic, tuition-free COOP hours that will denote their experience on their student transcript. Because these hours are free and non tuition-bearing, they are not able to be used toward Financial Aid requirements. Students will be registered for the course through the Office of Career and Professional Development. Students and employers are required to submit evaluations at two identified points during their work term. Successful completion of the requirements will result in a completion grade awarded to the student.

For more information about the Co-op and Internship Program, please refer to the Student Co-op & Internship Program page (students.georgiasouthern.edu/career/students/internships-co-ops/ (<https://students.georgiasouthern.edu/career/students/internships-co-ops/>)), visit the Office of Career and Professional Development, or call (912) 478-5197.

School Certifying Officials

The U.S. Department of Veterans Affairs (DVA) provides educational benefits under several programs. Eligibility is determined by DVA. Veterans or dependents of certain veterans who wish to attend Georgia Southern University under any of the veterans' benefits programs should contact the School Certifying Officials located in Military Resource Center (MRC) for assistance at (912) 478-5154, (912) 478-8043, (912) 344-2948 or email MVS@georgiasouthern.edu (mvs@georgiasouthern.edu). The School Certifying Official is responsible for assisting veteran students with the processing of VA forms for educational benefits. Students will be advised of procedural requirements and certification of enrollment will be verified to DVA.

Veterans who have service-connected disabilities and are eligible for disability compensation may qualify for Vocational Rehabilitation. Disabled veterans who think they qualify for this assistance are encouraged to contact the Department of Veterans Administration for further information.

Georgia Southern University encourages all veterans to take advantage of college credit that may be granted for military training, as well as the credit

by examination programs. Veterans requesting college credit for military training must provide Military and Veteran Affairs with an official military transcript for evaluation.

For more information please visit our web page at <https://www.georgiasouthern.edu/military-veterans/>. (<http://em.georgiasouthern.edu/registrar/students/veteranaffairs/>)

Vocational Rehabilitation

The State of Georgia provides financial assistance (equal to tuition and other regular fees in the University) for residents of Georgia who have disabilities. For further information, call toll free (844) 367-4872, or view the web page gvs.georgia.gov. (<http://gvs.georgia.gov/>)

Qualifying for Financial Aid

To be eligible for federal and state programs, students must meet the following criteria:

- Demonstrate federal need (may not be required for some loan and institutional programs).
- Have a standard high school diploma, GED, or ATB (Ability to Benefit) on file.
- Be enrolled in a degree-seeking program.
- Only courses in the student's program of study, per the DegreeWorks audit, will be eligible for financial aid.
- Not be in default or owe a repayment of Title IV funds.
- Have a valid Social Security number.
- Be a U.S. citizen or an eligible non-citizen with permanent residency status and an alien registration ID number (may not be required for some institutional programs).
- Be registered with the Selective Service (males between the ages of 18-25).
- Have not borrowed in excess of loan limits under the Title IV program.
- Must be maintaining satisfactory academic progress toward degree completion.
- Must have all requested documentation on file before disbursements can be made.

Note: Post Baccalaureate students who have a prior degree from Georgia Southern University or Armstrong State University are only eligible for financial aid if they are seeking a different degree. Students adding a major to an existing degree program, or just taking courses to improve GPA or for other reasons, are not eligible to receive federal financial aid.

Refunds for a Student Receiving Federal Title IV Financial Assistance

Students receiving Federal Title IV Financial Assistance who formally or informally withdraw from school are subject to Federal Return of Title IV Aid regulations as specified in the Higher Education Amendment of 1998. The calculation determines the aid earned by the student based on the days enrolled for the semester in relation to the total days in the semester. The aid considered not to be "earned" must be returned to the federal programs in the following order: Unsubsidized Federal Direct Stafford loans, Subsidized Federal Direct Stafford loans, Federal Perkins loans, Federal Direct PLUS loans received on behalf of the student, Federal Pell Grant, Teach Grant and Federal Supplemental Educational Opportunity Grant. Receipt of Federal Title IV Aid in excess of aid earned may be subject to repayment by the student if the student has withdrawn from school. The Bursar's Office notifies the student if a repayment is due. Failure to repay could result in loss of future Title IV Aid eligibility.

If a waiver or contract is treated as a payment of tuition and fees that have actually been charged to a student, then the waiver or contract is considered estimated financial assistance, and the full amount of the tuition and fees must be included in the return calculation.

Example: Student received Title IV aid as follows: \$1,274.00 in Subsidized Federal Direct Stafford Loan and \$782.00 in Pell Grant. The student had \$844.00 in Institutional Charges. Student withdrew on day 25 of a semester having 112 days. The student has earned 22.3% (25 days divided by 112 days) of the Title IV aid which equals \$458.49 (Loan of \$1,274.00 plus grant of \$782.00 times 22.3%). The student has unearned aid of \$1,597.51 (Total aid received of \$2,056.00 minus aid earned of \$458.49) that must be returned to the federal programs. The Institution must return \$656.00 (\$844.00 Institutional charges times 77.7% unearned aid); all of this will be returned to the Subsidized Federal Direct Stafford Loan. The remaining \$941.51 (unearned aid of \$1,597.51 minus amount Institution returned of \$656.00) must be returned by the student. The student must repay \$618.00 (\$1,274.00 received in loan minus \$656.00 returned to loan by Institution) to the Subsidized Federal Direct Stafford Loan in accordance with the terms of the loan. The student must return \$162.00 (remaining unearned aid of \$941.51 minus \$618.00 returned to loan fund by student equals \$323.51 multiplied by 50% {students are required to return 50% of unearned grant funds}) to the Pell Grant Program.¹

¹ Please click the link Withdrawal and Return of Title IV Financial Aid Funds Policy (https://drive.google.com/file/d/13F_bmCeOPf4LzthzQMDjESoNq70G5Ou5/view/) to view information regarding Tuition and Fee Refunds.

Tuition

- Bursar's Office - Student Account (p. 622)
- Drug Policy - Anti-Drug Abuse Act of 1988 (p. 623)
- In-State Tuition (p. 623)
- Out-of-State Tuition (p. 623)
- Repeated Coursework (p. 623)
- Satisfactory Academic Progress (SAP) Policy (p. 623)
- Tuition Classification (p. 626)

Bursar's Office - Student Account

The Bursar's Office provides financial services to students, faculty, and staff of the University. Operations are guided by two major criteria: customer service and requirements for completing financial transactions within the guidelines provided by Federal and State regulations, as well as GASB (Governmental Accounting Standards Board).

Mailing address:

Bursar's Office
PO Box 8155
Statesboro, GA 30460-8155

Bursar's Office
11935 Abercorn Street
Savannah, GA 31419

businesssrvs.georgiasouthern.edu/bursar (<http://businesssrvs.georgiasouthern.edu/bursar/>)
Phone number: 912-478-0999

Drug Policy - Anti-Drug Abuse Act of 1988

It is the policy of Georgia Southern University and the Office of Financial Aid that when the University or the Office of Financial Aid is officially notified that a student, who is a recipient of a Federal Pell Grant, is convicted via a court of law of a drug offense during the period of enrollment covered by the Federal Pell Grant, and for which the student had previously certified he or she would be drug free, that individual's violation of the certification statement must be reported to the U.S. Department of Education Office of Inspector General, in accordance with section 668.14 (g) of the Title IV Higher Education Act of 1965 and its amendments. Upon the final determination by the Office of the Inspector General, and the notification to Georgia Southern University, the Office of Financial Aid will implement the recommendations set forth in their findings, which may include the withholding of all further Title IV and institutional payments to the student. Until a final determination is made regarding fraud on the part of the student, the student will remain eligible for financial aid.

In-State Tuition

Tuition is charged to all students based on the number of credit hours for which the student is registered. In-state undergraduate students are charged per credit hour up to 15 credit hours per semester. Effective Fall 2020 undergraduate students will pay their standard tuition rate for all classes they take. Exceptions include the unique tuition rates for eCore, eMajor and WebBSIT. An additional exception will be for out of state undergraduate students taking all campus 40 courses, in that case they will pay their in-state equivalent tuition for that semester.

In-state graduate students are charged per credit hour up to 12 credit hours per semester (with the exception of Professional Programs, Distance Education, and Online Programs). Graduate students enrolled in Professional Programs, Distance Education and Online Programs will be subject to additional tuition charges related to those programs. Graduate students who enroll in an Online Degree Program (degree is offered entirely online) will be charged based on their program's rate per credit hour.

The current academic year's rates can be found on the Tuition and Fees (<https://finserv.georgiasouthern.edu/bursar/office-of-student-accounts/tuition-and-fees/>) website.

Out-of-State Tuition

Non-residents of Georgia are required to pay tuition at an out of state rate based on the number of credit hours for which the student is registered. Out-of-state undergraduate students are charged per credit hour up to 15 credit hours per semester. Effective Fall 2020 undergraduate students will pay their standard tuition rate for all classes they take. Exceptions include the unique tuition rates for eCore, eMajor and WebBSIT. An additional exception will be for out of state undergraduate students taking all campus 40 courses, in that case they will pay their in-state equivalent tuition for that semester.

Out-of-state graduate students are charged per credit hour up to 12 credit hours per semester (with the exception of Professional Programs, Distance Education, and Online Programs). Graduate students enrolled in Professional Programs, Distance Education and Online Programs will be subject to additional tuition charges related to those programs. Graduate students who enroll in an Online Degree Program (degree is offered entirely online) will be charged based on their program's rate per credit hour.

The current academic year's rates can be found on the Tuition and Fees (<https://finserv.georgiasouthern.edu/bursar/office-of-student-accounts/tuition-and-fees/>) website.

Repeated Coursework

Federal regulations limit the number of times a student may repeat a course and receive Federal financial aid for that course:

- A student may receive aid when repeating a course for the first time (course was previously failed or passed first time).
- If a previously passed course is repeated a third time, the student may not receive financial aid for that course. Also, the course would not be counted towards full-time eligibility. Grants, loans, and scholarships can be affected if a student is not at full-time status.
- A student may receive aid for a repeated course in which they have never received a passing grade for as many times as it takes to pass the course as long as they are meeting other financial aid eligibility requirements.

The federal regulations apply whether or not the student received aid for earlier enrollments in the course.

Satisfactory Academic Progress (SAP) Policy

Requirement and Definition

Federal and state regulations require the University to establish and apply reasonable satisfactory academic progress standards and to review applicable student records to ensure students receiving financial assistance under the programs authorized by Title IV of the Higher Education Act or Georgia state law are complying with these standards. Georgia Southern University students who wish to receive financial aid must maintain satisfactory academic progress (SAP) in their selected course of study as set forth in this policy.

Students are notified of the SAP policy in the Georgia Southern University online Catalog, which is available at em.georgiasouthern.edu/registrar/resources/catalogs/ (<http://em.georgiasouthern.edu/registrar/resources/catalogs/>). In addition, the SAP policy is sent to students' Georgia Southern email accounts. Further, a copy of the SAP policy, instructions for the SAP Appeal Form, and a SAP calculator are available in the University's Financial Aid Office and on our website at em.georgiasouthern.edu/finaid/policies/satisfactory-academic-progress-sap/ (<https://em.georgiasouthern.edu/finaid/policies/satisfactory-academic-progress-sap/>).

The Office of Financial Aid is responsible for evaluating satisfactory academic progress of students receiving financial assistance from all federal and state programs, and certain alternative loan programs.

Institutional SAP Policy

Financial aid academic progress standards for students are evaluated on the basis of grade point average (GPA), credit hour completion (PACE), and maximum timeframe (MAX).

Financial aid standards of SAP for students will be checked at the end of each semester.

The Financial Aid SAP Policy is totally separate from the policies of the Registrar's office regarding Academic Standing and Academic Renewal along with separate appeal processes. All grades previously received will be considered when determining financial aid eligibility, as stated in this policy.

Georgia Southern University's SAP policy requires maintaining academic standards based on the following three criteria:

1. Grade Point Average (GPA)

Undergraduate students (other than students who have been accepted into the Education Major teacher certification programs):

Undergraduate students will be evaluated at the end of each term on the basis of cumulative GPA. The cumulative GPA required to maintain SAP for the total number of attempted hours is 2.0.

Undergraduate Education Majors in the Teacher Education Program (TEP):

Undergraduate education majors in certification programs will be evaluated at the end of each term on the basis of cumulative GPA. Under the University's academic policy, students who have been accepted into one of the Bachelor of Science in Education certification programs and have been formally admitted into the Teacher Education Program are required to maintain a cumulative GPA of at least 2.50.

Under the University's academic policy, students who have been accepted into the education major's certification programs but do not maintain the required cumulative GPA of at least 2.50 may not continue in a certification program. However, these students may choose to switch to another major in order to complete their degree. If an Education Major certification student is determined not to be making SAP because he or she has not maintained the required 2.50 GPA, and he or she subsequently chooses to switch to another major, at the next SAP evaluation, the student's GPA will be evaluated as compared to the requirement for the new major (i.e., 2.0). For purposes of that evaluation, all grades earned to date will be included in the GPA calculation.

Note: Students must apply and gain acceptance into the Teacher Education Program (TEP). In order to be accepted into the Program, a student must satisfy several requirements, including having completed a minimum of 50 semester credit hours (including completion of certain specified coursework), and having earned a cumulative GPA of at least 2.50 (including all coursework completed at Georgia Southern and any transfer credit accepted by Georgia Southern).

Post baccalaureate students:

Post baccalaureate students will be evaluated at the end of each term on the basis of cumulative GPA. The cumulative GPA required to maintain SAP for the total number of attempted hours is 2.0.

Graduate students:

Graduate students will be evaluated at the end of each term. Students enrolled in master's degree, specialist, and PhD programs must have a cumulative GPA of 3.0 or higher at the end of each term.

Failure to maintain the required minimum cumulative GPA standards will result in the loss of eligibility to receive financial aid.

2. Credit Hour Completion (PACE of Progression)

All students will be evaluated at the end of each term to determine if they are making satisfactory pace of progression in their academic program. PACE is calculated by dividing the cumulative number of hours the student has successfully completed (earned) by the cumulative number of hours the student has attempted. Undergraduate, post baccalaureate, and graduate students who enroll for full-time, three-quarter time or part-time course work throughout each academic year must complete (earn) at least 67% of all attempted hours registered for during each academic term.

3. Maximum Time Frame (MAX)

Students must progress through their educational programs at a rate that will allow the student to complete the program within the timeframe allowed for their program.

Undergraduate:

Undergraduate students must be projected to complete their program in a period of time that is not longer than 150 percent of the published length of the educational program, as measured in credit hours. For example, students in a 4-year, 124-credit hour program who have attempted more than 186 semester credit hours will become ineligible to receive financial aid. Degree programs that require more than 124 hours for graduation will have the 186 hours maximum timeframe increased proportionally by the number of hours above 124 required to receive the degree. If at any time, the student has more credits remaining to finish his/her declared program than he/she has left in remaining maximum credit, the student will become ineligible for financial aid.

Post Baccalaureate:

Post Baccalaureate students must be projected to complete their Post Baccalaureate program in a period of time that is not longer than 150 percent of the published length of the educational program, as measured in credit hours. Post Baccalaureate students must be enrolled in a bachelor's degree program in order to receive financial aid. The degree program must be different than one already completed at Georgia Southern University or Armstrong State University. Post Baccalaureate students adding a major, taking courses to increase GPA, or not enrolled in a degree program are not eligible to receive financial aid.

Graduate:

Graduate students must be projected to complete their program in a period of time that is not longer than 150 percent of the published length of the educational program, as measured in credit hours. For example, students in a 60-credit graduate program who have attempted more than 90 semester credit hours will become ineligible to receive financial aid. Degree programs that require more than 60 hours for graduation will have the 90 hours maximum timeframe increased proportionally by the number of hours above 60 required to receive the degree. If at any time, the student has more credits remaining to finish his/her declared program than he/she has left in remaining maximum credit, the student will become ineligible for financial aid.

Institutional SAP Status

Students not maintaining Satisfactory Academic Progress are notified of their SAP status and related consequences in writing by the Financial Aid Office. At the end of each SAP evaluation period, one of the following SAP statuses will be assigned:

SATISFACTORY:

Student is making SAP, as measured by all of the following requirements: GPA, PACE, and/or MAX Time Frame. Student is eligible to continue receiving financial aid.

FINANCIAL AID WARNING:

Student is not making SAP as measured by one or both of the following requirements: GPA and/or PACE. For the next term in which the student is enrolled, the student remains eligible to continue receiving financial aid. The student must make SAP at the time of the next SAP evaluation period, or the student will be deemed ineligible to receive financial aid and will be placed on Financial Aid Suspension (unless and until he or she appeals that determination successfully and is placed subsequently on Financial Aid Probation).

FINANCIAL AID SUSPENSION:

Student is not making SAP based on one or more of the requirements (i.e., GPA, PACE and/or MAX Time Frame) after (1) attempting the maximum number of credit hours allowed for the student's degree program, (2) being on Financial Aid Warning status (for GPA and/or PACE) for one term and failing to meet the required SAP standards, or (3) not satisfying the

requirements of the academic plan developed for the student when he or she was placed on Financial Aid Probation. Financial aid eligibility is terminated until the student has achieved the required minimum standards to make SAP, or the student has obtained an approved appeal.

FINANCIAL AID PROBATION:

A student on Financial Aid Suspension has the right to appeal to have financial aid reinstated. If the appeal is approved, the student is placed on Financial Aid Probation. Students with approved SAP appeals are monitored by the Office of Financial Aid every term of enrollment to determine if they have achieved the goals of their academic plan. Failure to make progress as set out in the academic plan will result in the loss of eligibility to receive financial aid (i.e., Financial Aid Suspension).

Special Circumstances Affecting SAP Criteria

Learning Support Classes:

The first 30 credit hours of learning support course work will be excluded from the calculation for maximum timeframe and from the calculation for the required percentage of credit hour completion. Learning support credit hours in excess of 30 credit hours will be included in both the calculation of maximum timeframe and the required percentage of credit hour completion. All grades earned through learning support course work will be included in the calculation of the cumulative GPA.

Dropped and Repeated Courses: (see below for complete withdrawals)

All credit hours attempted during each term in which a student is enrolled will count toward the maximum timeframe and minimum credit hours completion. A student is considered enrolled based on the number of credit hours registered after the drop/add period of each academic term. Students who drop courses during the drop/add period will not have those hours considered in determining total hours registered. Students who drop courses after the drop/add period will have those hours considered in determining total hours registered, which will count toward the maximum timeframe calculation.

Repeated courses will count in the calculation of attempted hours. All grades earned in repeated courses will be used to calculate the GPA for purposes of SAP.

Grades of A, B, C, D, or S represent satisfactory completion of a course. Grades of F, I, W, WF, U, or Audit represent unsatisfactory completion of a course. Grades of IP or V will not be included in the number of hours earned toward the completion of a degree.

Complete Withdrawal from School:

A financial aid student who withdraws from school during the 100% refund period of any term, which runs through the first day of classes, will not have their registered hours included in the maximum timeframe calculation nor be required to meet the minimum credit hour completion percentage. However, any student withdrawing from school after the 100% refund period (after the first day of classes) will have their registered hours included in the maximum timeframe calculation and be required to meet the minimum credit hour completion percentage.

Effect of Grades on GPA:

Grades of A, B, C, D, F, or WF are included in determination of GPA for purposes of SAP. Grades of I, IP, K, NR, S, U, V, W, WT, W% or WM are not included in this calculation. Appeals will not be reviewed until "I" (incomplete) grades have been changed. For HOPE scholarship recipients, "I" grades could affect HOPE eligibility status when the grade for the incomplete is eventually submitted to the Office of the Registrar. Students who had been awarded HOPE, but later become ineligible with the grade change, will have HOPE awards canceled until the next checkpoint, and will be responsible for the repayment of any HOPE funds received while not eligible.

Transfer Credits:

Credits transferred from other institutions will count toward maximum timeframe, credit hour completion percentage, and the cumulative GPA calculation for SAP evaluation purposes.

Consortium Agreements:

Credit hours earned through consortium or contractual agreements (contracts with other higher education institutions) will count toward maximum time-frame, credit hour completion percentage, and cumulative GPA.

Reestablish Financial Aid Eligibility

A student seeking to reestablish eligibility of financial aid may do so by:

- achieving SAP standards towards their course of study, as set forth in this policy, at the time of a future SAP evaluation, or
- acquiring a successful appeal through the appeal process and being placed on Financial Aid Probation status.

SAP Appeal Process

Students who have been placed on Financial Aid Suspension due to failure to progress toward academic degree completion have a right to appeal to have their financial aid reinstated. The appeal process is as follows:

- Students must complete the Satisfactory Academic Progress (SAP) Financial Aid Appeal Form. Instructions on how to access the appeal form are found on the Georgia Southern University Financial Aid website under the Policies tab. **Deadlines to appeal are the 5th day of the semester appealing for aid.**
- The completed SAP Appeal Form along with all appropriate documentation must be submitted online to the Office of Financial Aid as early as possible for review. The documentation submitted must include:
 - a. A statement explaining the circumstance(s) which prevented the student from making satisfactory academic progress (e.g., serious injury, illness, or mental health condition of student or immediate family member; birth or adoption of a child; death of an immediate family member; divorce/separation; military service; personal difficulties; academic difficulties beyond the student's control; or other circumstances related to exceeding maximum timeframe).
 - b. Documentation that supports the student's statement (e.g., physician's statement, birth or death certificate, divorce decree, military papers, letter of support from someone aware of the student's academic difficulties).
 - c. Information about what has changed in the student's situation that will allow the student to demonstrate satisfactory academic progress at the next evaluation.
 - d. A detailed coursework plan for completing your degree requirements which includes confirmation you have met with your academic advisor.
 - e. A detailed academic improvement plan that includes upcoming semester goals and GPA calculations that will place you back in good standing. For undergraduate students, the improvement plan must be created with, and approved by, the Academic Success Center. Graduate students should contact the College of Graduate Studies for this documentation.
- Students completing the SAP appeal process are required to pay current term fees by the fee payment deadline to avoid class cancellation. Classes will not be held while an appeal is being reviewed. Questions regarding student fee payments should be directed to the Office of Student Accounts at (912) 478-0999.
- Notification of the appeal decision will be sent by email to the student's Georgia Southern email.

Tuition Classification

Regents' Policies Governing Classification of Students for Tuition Purposes: Under the Constitution and the laws of Georgia, the Board of Regents of the University System of Georgia was created to govern, control, and manage a system of public institutions providing quality higher education for the Georgia citizens. The State, in turn, receives substantial benefit from individuals who are attending or who have attended these institutions through their contributions to the civic, political, economic and social advancement of the citizens of Georgia. Because of the overwhelming amount of financial support supplied by the citizens of Georgia, the determination of whether a student is a resident or a non-resident of Georgia is a significant matter. The tuition paid by in-state students covers about one-fourth of the total cost of their education in Georgia. Georgia taxpayers are therefore contributing 75 percent of the funds for quality education in the state. State colleges and universities often assign out-of-state students a higher tuition rate in an attempt to achieve parity between those who have and those who have not contributed to the state's economy recently. The courts consider the durational residency requirement (usually 12 consecutive months) imposed by most states to be a reasonable period during which the new resident can make tangible or intangible contributions to the state before attending state colleges as an in-state student. The term "resident" is confusing because it can refer to voter registration, driver's license, automobile registration, income taxes and other matters. A student may be a resident of Georgia for some purposes, but not entitled to in-state tuition fees. Courts have consistently upheld the right of these institutions to charge out-of-state students higher rates. The courts have also upheld the institution's right to adopt reasonable criteria for determining in-state status. Through the resident and non-resident fees, the taxpayers of Georgia are assured that they are not assuming the financial burden of educating non-permanent residents. *Please visit the Tuition Classification (<https://em.georgiasouthern.edu/registrar/students/petitionforinstatetuitionfeewaivers/>) website for additional information and all waiver forms.*

If a person has moved to the state of Georgia for the purpose of attending a Georgia educational institution, it is difficult for that person to prove his / her intent to become a legal resident of the state. (The American Heritage Dictionary of the English Language defines intent in the following manner: n. 1. That which is intended; aim; purpose.)

Verification of Lawful Presence

Each University System institution shall verify the lawful presence in the United States of every successfully admitted person applying for resident tuition status as defined in Section 7.3 of the University System of Georgia Board of Regents Policy Manual which can be found at www.usg.edu/policymanual (<https://www.usg.edu/policymanual/>).

Institutions may use a number of different methods to verify the lawful presence of their students. The methods include the following:

- A current ID or drivers' license issued by the State of Georgia after January 1, 2008. **A limited term license or an expired license is not acceptable.**
- A **certified** U.S. birth certificate showing that the student was born in the U.S. or a U.S. Territory. *You may obtain a certified copy through the Health Department in the county in which the student was born.*
- A U.S. Certificate of Birth Abroad issued by the department of state or a Consular Report of Birth Abroad.
- A U.S. Certificate of Naturalization or Certificate of Citizenship
- A current U.S. Passport
- A current Military ID (only valid for military personnel, not their dependents) **(MUST BE PRESENTED IN PERSON)**
- A current Permanent Resident Alien Card

The Office of Student Affairs of the University System of Georgia has developed a web page to provide students, parents, and high school counselors with information about the lawful presence requirement. This page can be accessed by going to <https://admissions.georgiasouthern.edu/verification-of-lawful-presence/>.

Petition For In-State Tuition

Please visit the Tuition Classification (<https://em.georgiasouthern.edu/registrar/students/petitionforinstatetuitionfeewaivers/>) website for all waiver forms.

You must demonstrate that you, your parent, your spouse, or your U.S. court-appointed guardian (if you are a minor) is a legal resident of Georgia for tuition purposes. You may establish this claim by providing documentation to support the definition established by the Board of Regents. Please note that establishing residency for tuition purposes as defined by the Board of Regents is different from establishing residency with regards to voting, having a Georgia driver's license or vehicle tag, etc., and it requires more than establishing eligibility to vote, securing a Georgia driver's license, and/or paying taxes.

1. If a person is 18 years of age or older, he or she may register as an in-state student only upon showing that he or she has been a legal resident of Georgia for a period of at least 12 months immediately preceding the date of registration.
Exceptions:
 - a. A student who previously held residency status in the state of Georgia but moved from the state then returned to the state in 12 or fewer months.
2. A student must independently make an income of \$12,490 to be considered for in-state residency approval (For more details about this rule set by the BOR, visit this website (aspe.hhs.gov/poverty-guidelines) (<https://aspe.hhs.gov/poverty-guidelines/>)). If the student is basing his/her petition on his/her parent, guardian or spouse, the income rule would apply to the person supporting the dependent student.
3. No emancipated minor or other person 18 years of age or older shall be deemed to have gained or acquired in-state status for tuition purposes while attending any educational institution in this state, in the absence of a clear demonstration that he or she has in fact established legal residence in this state.
4. If a parent or legal guardian of a student changes his or her legal residence to another state following a period of legal residence in Georgia, the student may retain his or her classification as an in-state student as long as he or she remains continuously enrolled in the University System of Georgia, regardless of the status of his or her parent or legal guardian.
5. In the event that a legal resident of Georgia is appointed by a court as guardian of a nonresident minor, such minor will be considered as an in-state student providing the guardian can provide proof that he or she has been a resident of Georgia for the period of 12 months immediately preceding the date of the court appointment.
6. Aliens shall be classified as non-resident students, provided, however, that an alien who is living in this country under an immigration document permitting indefinite or permanent residence shall have the same privilege of qualifying for in-state tuition as a citizen of the United States upon proving 12-month residency period in Georgia.

Due to the requirement that a person prove his/her intent to become a legal resident of the state of Georgia, his/her petition may not be approved. The burden of proof is always on the student, and documentation is absolutely necessary to prove any claims. If his/her petition for legal residency for tuition purposes is denied, the student may appeal the decision to the Tuition Classification Committee.

SEMESTER DEADLINES for submitting a Petition for Classification of Students for Tuition Purposes:

Fall Semester - August 1st
 Spring Semester - December 1st
 Summer Semester - May 1st

Student Responsibilities

1. **Student Responsibility to Register under Proper Classification**
 - The responsibility of being classified under the proper tuition classification belongs to the student. If there is any question of Tuition Classification or their right to in-state tuition status, it is their obligation, within the deadlines set on the residency website, to raise the question with the administrative officials of the institution in which they are registering and have it officially determined. The burden always rests with the student to submit information and documents necessary to support their contention that they qualify for a particular tuition classification under Regents' regulations.
2. **Official Change of Tuition Status** - Every student classified as a nonresident shall retain that status until they petition for reclassification in the form prescribed by the institution and shall be officially reclassified in writing as an in-state student by the proper administrative officers. No more than one application may be filed for a given semester.
3. **Reclassification** - Every student who has been granted in-state tuition as a legal resident of Georgia shall be reclassified as an out-of-state student whenever they report, or there have been found to exist, circumstances indicating a change in legal residence to another state.

Out-of-State Tuition Waivers

Please visit the Tuition Classification (<https://em.georgiasouthern.edu/registrar/students/petitionforinstatetuitionfeewaivers/>) website for all waiver forms.

An institution may waive out-of-state tuition and assess in-state tuition for:

1. **Academic Common Market.** (<https://em.georgiasouthern.edu/registrar/students/tuitionclassificationfeewaivers/>) Students selected to participate in a program offered through the Academic Common Market (www.usg.edu/divisions/academic_common_market/ (https://www.usg.edu/divisions/academic_common_market/)).
2. **Border County Waiver (Graduate Students Only).** Graduate student residents of Jasper and Beaufort counties in South Carolina who have a primary campus of Armstrong or Liberty may receive the Border County Resident Waiver.
3. **Border State Waiver (Undergraduate Students Only).** (<https://em.georgiasouthern.edu/registrar/students/tuitionclassificationfeewaivers/>) Undergraduate student residents of Alabama, Florida, North Carolina, South Carolina, Tennessee.
4. **Career Consular Officials.** Career consular officers, their spouses, and their dependent children who are citizens of the foreign nation that their consular office represents and who are stationed and living in Georgia under orders of their respective governments.
5. **Economic Advantage Waiver.** As of the first day of classes for the term, an Economic Advantage waiver may be granted under the following conditions:
 - a. U.S. Citizens, Permanent Residents, and Other Eligible Non-Citizens
 - i. Dependent students providing clear and convincing evidence that the student's parent or U.S. court-appointed legal guardian relocated to the State of Georgia to accept full-time, self-sustaining employment. The relocation must be for reasons other than enrolling in an institution of higher education and appropriate steps to establish domicile in the state must be taken. The employment upon which the relocation was based must be held at the time the waiver is awarded.
- ii. Independent students providing clear and convincing evidence that they, or their spouse, relocated to the State of Georgia to accept full-time, self-sustaining employment. The relocation to the state must be for reasons other than enrolling in an institution of higher education and appropriate steps to establish domicile in the state must be taken. The employment upon which the relocation was based must be held at the time the waiver is awarded.
- iii. U.S. refugees, asylees, and other eligible non-citizens as defined by the federal Title IV regulations may be extended the same consideration for the Economic Advantage waiver as citizens and lawful permanent residents of the United States.

Waiver eligibility for the above qualifying students expires twelve (12) months from the date the waiver is awarded.

b. Non-Citizens

- i. Non-citizen dependent students providing clear and convincing evidence that the student's parent or U.S. court-appointed legal guardian relocated to the State of Georgia to accept full-time, self-sustaining employment and entered the state in a valid, employment-authorized status. The relocation must be for reasons other than enrolling in an institution of higher education and appropriate steps to establish domicile in the state must be taken. The employment upon which the relocation was based must be held at the time the waiver is awarded. Additionally, the non-citizen dependent student must provide clear evidence that the parent, or U.S. court-appointed legal guardian, is taking legally permissible steps to obtain lawful permanent resident status in the United States.
- ii. Non-citizen independent students must provide clear and convincing evidence that they, or their spouse, relocated to the state of Georgia to accept full-time, self-sustaining employment and entered the state in a valid, employment-authorized status. The relocation must be for reasons other than enrolling in an institution of higher education and appropriate steps to establish domicile in the state must be taken. The employment upon which the relocation was based must be held at the time the waiver is awarded. Additionally, non-citizen independent students must provide clear evidence that they, or their spouse, are taking legally permissible steps to obtain lawful permanent resident status in the United States.

Waiver eligibility for the above qualifying students may continue provided full-time, self-sustaining employment in Georgia and the employment-authorized status are maintained. Furthermore, there must be continued evidence of Georgia domicile and efforts to pursue an adjustment to United States lawful permanent resident status.

6. **Full-Time Public School and Technical College System of Georgia Employees and Their Spouses and Dependent Children Waiver.** For full-time employees in the public schools of Georgia or of the Technical College System of Georgia, their spouses, and their dependent children.
7. **Full-Time University System of Georgia Employees and Their Spouses and Dependent Children Waiver.** For full-time employees of the University System, their spouses, and their dependent children.
8. **Non-resident Student Waiver.** As of the first day of classes for the term, a non-resident student can be considered for this waiver under the following conditions:
 - a. Student under 24
 If the parent, or U.S. court-appointed legal guardian has maintained domicile in Georgia for at least 12 consecutive months and the student can provide clear and legal evidence showing the relationship to the parent or U.S. court-appointed legal guardian has existed for at least 12 consecutive months immediately preceding the first day of classes for the term. Under Georgia code

legal guardianship must be established prior to the student's 18th birthday.

b. **Student 24 or Older**

If the student can provide clear and legal evidence showing relations to the spouse and the spouse has maintained domicile in Georgia for at least 12 consecutive months immediately preceding the first day of classes for the term. This waiver can remain in effect as long as the student remains continuously enrolled.

If the parent, spouse, or U.S. court-appointed legal guardian of a continuously enrolled non-resident student establishes domicile in another state after having maintained domicile in the State of Georgia for the required period, the non-resident student may continue to receive this waiver as long as the student remains continuously enrolled in a public postsecondary educational institution in the state, regardless of the domicile of the parent, spouse or U.S. court-appointed legal guardian.

9. **Presidential Waiver.** (<https://em.georgiasouthern.edu/registrar/students/tuitionclassificationfeewaivers/>) Presidential waivers are divided into three categories: (1) academic, (2) international, and (3) athletic. Students selected by the institutional president or an authorized representative, provided that the number of such waivers in effect does not exceed two percent of the equivalent full-time students enrolled at the institution in the fall term immediately preceding the term for which the out-of-state tuition is to be waived. Out-of-state students may apply by completing the MyScholarships application found at admissions.georgiasouthern.edu/scholarships/ (<https://admissions.georgiasouthern.edu/scholarships/>). International students may apply on the International Admissions page at the following address: admissions.georgiasouthern.edu/requirements/international/ (<https://admissions.georgiasouthern.edu/requirements/international/>). Student athletes should speak with their recruiting coach.
10. **Senior Citizen Waiver.** See Special Admission for Students Age 62 and Older in the Tuition Classification section of the catalog.
11. **Teachers Employed Full-Time on Military Bases Waiver**
12. **Vocational Rehabilitation Waiver.** For students enrolled in a University System of Georgia institution based on a referral by the Vocational Rehabilitation Program of the Georgia Department of Labor.

Military Out-Of-State Tuition Waivers

Please visit the Tuition Classification (<https://em.georgiasouthern.edu/registrar/students/petitionforinstatetuitionfeewaivers/>) website for all waiver forms.

1. **Active Duty Military Personnel and their Spouses and Dependent Children Waiver.**

Active duty military personnel, their spouses, and their dependent children who meet one of the following criteria: The military sponsor is currently stationed in or assigned to Georgia;

- The military sponsor previously stationed in or assigned to Georgia is reassigned outside of Georgia, and the student or students remain continuously enrolled in a Georgia high school, TCSG institution, or a USG institution;
- The military sponsor is reassigned outside of Georgia and the spouse and dependent children remain in Georgia;
- The military sponsor is stationed in a state contiguous to the Georgia border and resides in Georgia;
- Dependent children of a military sponsor previously stationed in or assigned to Georgia within the previous five years;
- Dependent children of a military sponsor if the child completed at least one year of high school in Georgia; or,

f. Any student utilizing VA educational benefits transferred from a currently serving military member, even if the student is no longer a dependent of the transferor.

2. **Georgia National Guard and U.S. Reservists and Their Spouses and Dependent Children Waiver.** For active members of the Georgia National Guard, stationed or assigned to Georgia or active members of a unit of the U.S. Military Reserves based in Georgia, and their spouses and their dependent children.

3. **Recently separated Military Personnel Waiver.** For members of the uniformed military service of the United States who, within 3 years/36 months of separation from such service or within 10 years/120 months of separation of utilizing VA Educational benefits, enroll in an academic program and demonstrate an intent to become a permanent resident of Georgia. This waiver may also be granted to their spouses and dependent children. There is no limit to the number of terms a student may be awarded the Recently Separated Military Personnel waiver provided the student remains continuously enrolled.

Military Waivers of Mandatory Fees

Please visit the Tuition Classification (<https://em.georgiasouthern.edu/registrar/students/petitionforinstatetuitionfeewaivers/>) website for all waiver forms.

Waivers of Mandatory Fees for U.S. Military Reserve and Georgia National Guard Combat Veterans, Active Duty U.S. Military Students and Reserve Component Military Students

- (<https://drive.google.com/file/d/1nizZjTikaacCaQhEXgydUpocrTWiiRx/view?usp=sharing>) **Active Duty U.S. Military Students Mandatory and Special Institutional Fee Waiver:** Individuals who are currently serving full-time on active duty in a branch of the armed forces of the United States are eligible to request an exemption of Mandatory Fees at Georgia Southern University. If the military student is utilizing Federal Tuition Assistance (TA) or paying their own way they can be approved to receive the waiver. The active-duty military member will be awarded the waivers for three consecutive terms (one academic year). Once the waiver expires, eligible active duty members must re-submit the petition and supporting documentation to receive the waiver for the next three consecutive terms (one academic year).
- U.S. Military Reserve and Georgia National Guard Combat Veterans Mandatory Fee Waiver:** Eligible participants must be Georgia residents who are active members of the U.S. Military Reserves and/or the Georgia National Guard and were deployed overseas for active service in a location or locations designated by the U.S. Department of Defense as combat zones on or after September 11, 2001, and served for a cumulative period or periods of 90 days, or who received full disability as a result of injuries received in such combat zone, or were evacuated from such combat zone due to severe injuries during any period of time while on active service.
- Reserve Component Military Students Mandatory Fee Waiver:** Individuals who are currently actively serving in a branch of the armed forces Reserve or National Guard are eligible to request an exemption of Mandatory Fees at Georgia Southern University. If the military student is utilizing Federal Tuition Assistance (TA) or paying their own way they can be approved to receive the waiver. The Reserve or National Guard military member will be awarded the waivers for three consecutive terms (one academic year). Once the waiver expires, eligible service members must re-submit the petition and supporting documentation to receive the waiver for the next three consecutive terms (one academic year).

4. Additionally, eligible participants must meet the admissions requirements of the applicable USG institution and be accepted for admission.
5. **Benefits.** Eligible participants shall receive a waiver of all mandatory fees charged by USG institutions including, but not limited to, intercollegiate athletic fees, student health services fees, parking and transportation (where such fees are mandated for all students), technology fees, student activity fees, fees designated to support leases on facilities such as recreation centers, parking decks, student centers, and similar facilities, and any other such mandatory fees for which all students are required to make payment. Students receiving this waiver shall be eligible to use the services and facilities these fees are used to provide. This benefit shall not apply to housing, food service, any other elective fees, special fees, or other user fees and charges (e.g., application fees).

An institution may waive mandatory fees, excluding technology fees, for:

1. Students who reside or study at another institution.
2. Students enrolled in practicum experiences (e.g., student teachers) or internships located at least 50 miles from the institution.
3. Students enrolled in distance learning courses or programs who are not also enrolled in on-campus courses nor residing on campus. If a student is enrolled in courses from more than one institution during the same term, only the home institution will charge the approved technology fee to the student. Students who participate in distance education offerings as transient students will not be charged a technology fee by the transient institution. No separate technology fee shall be established for collaborative distance learning courses or programs.
4. Students enrolled at off-campus centers, except that the institution shall be authorized to charge select fees to these students for special services subject to approval by the Board of Regents.

Student Life

Georgia Southern University campuses are full of life — places where memories are made every day. They are comfortable sites of activity and interaction for both educational and personal growth offering a wide variety of facilities, services and organizations to the 26,000-plus students interested in exercising, maintaining their health, enjoying the outdoors, making new friends, building knowledge and sharing ideas.

- Situated on the Atlantic coast in beautiful Savannah, the **Armstrong Campus** of Georgia Southern University is located just minutes away from the National Historic Landmark District downtown and a short drive from the sunny beaches of Tybee Island. The 268-acre arboretum campus is home to more than 6,500 students and offers an abundance of resources to help students succeed.
- Located just an hour from historic Savannah, Georgia Southern's 900-plus acre **Statesboro Campus** is nestled in the classic Main Street town of Statesboro, Georgia. It boasts a lively and picturesque downtown, where visitors enjoy boutique shops, restaurants, a seasonal farmer's market and diverse cultural activities. Statesboro and Bulloch County continue to grow along with the University, and are now home to more than 72,000 residents.
- Located in Hinesville, the **Liberty Campus** houses a new, state-of-the-art facility offering a variety of opportunities for local students, especially those affiliated with the military, to take advantage of a nationally recognized university in their own backyard.

Students don't have to travel far to find things to do. Our campus offers excellent housing, dining, transportation, recreation and health and safety services to a diverse student body from all 50 states and 102 countries. From the picturesque lawn of Sweetheart Circle in Statesboro to the botanic beauty of the Armstrong Campus to the dynamic and modern facility in Hinesville, Georgia Southern University remains one of the nation's premier places to live, work, study and grow.

- Campus Recreation and Intramurals (p. 630)
- Counseling Center (p. 631)
- Dining Plans (p. 632)
- Enrollment Management (p. 632)
- Health Services (p. 632)
- Home (p. 8)
- Home (p. 8)
- Leadership & Community Engagement (p. 633)
- Minority Advisement Program (p. 633)
- Office of Multicultural Affairs (p. 633)
- Office of Student Conduct (p. 634)
- Southern's Orientation, Advisement, and Registration (SOAR) (p. 634)
- Student Affairs (p. 634)
- Student Media (p. 635)
- Student Organizations (p. 635)
- Tech Corner (p. 636)
- The University Store (p. 636)
- University Housing (p. 25)
- University Programming Board (p. 636)

Campus Recreation and Intramurals

Campus Recreation & Intramurals, an integral and active service of the diverse University community, supports and strengthens the mission

of Georgia Southern University and the Division of Student Affairs by fostering a culture of engagement that is dedicated to nurturing the whole student through wellness. **Our purpose is to inspire self-discovery through sport, fitness, wellness and adventure.** Through the provision of high-quality, safe and enriching programs and facilities in Fitness, Aquatics, Southern Adventures, Intramural Sports, Club Sports, Golf, and Shooting Sports Education, we strive to promote and develop healthy lifestyle choices that will contribute positively to the overall well-being of the students, faculty and staff at Georgia Southern.

Statesboro Campus

M.C. Anderson Recreational Park

2687 Bunny Akins Boulevard, Statesboro, GA 30458
(912) 478-5436

Recreation Activity Center (RAC):

- 215,000 square-foot facility
- Free Weight, Machine Weight, Cardio, Group Exercise, Mind/Body and Spinning rooms
- Wellness Center including a fitness assessment lab
- 8 Multi-use courts (basketball, volleyball, indoor soccer)
- 3 Racquetball courts
- 3 Multipurpose rooms for dance and martial arts
- Southern Adventures Center
- 45-foot climbing wall and bouldering cave
- Aquatics Center complete with 25yd x 25m lap pool, whirlpool, sauna, 1m and 3m diving boards and locker room facilities

Outdoor venues:

- Outside leisure pool and whirlpool
- Sand volleyball courts
- Bandshell
- Multiplex and Club Sports fields (softball, soccer, flag football, lacrosse and rugby)
- Pavilion that can accommodate a variety of events
- Challenge Course featuring low, high and static elements

Georgia Southern University Golf Course at University Park

1031 Golf Club Road, Statesboro, GA 30458
(912) 478-4653

- 18-hole golf course on 167 acres
- 30-station driving range
- Practice greens for chipping and putting
- 8,000 square foot clubhouse

Shooting Sports Education Center

3271 Old Register Road, Statesboro, GA 30458
(912) 478-7732

- 30,000 square foot indoor archery center and firing range
- 16 lane, 25-meter firing range
- 16 lane, 25-meter archery center
- Storage facility for firearms and bows
- Training/seminar rooms
- 20-acre outdoor archery park

Armstrong Campus

Armstrong Recreation Center (ARC)

11935 Abercorn Street, Savannah, GA 31419
(912) 344-3136

- 85,000 square-foot facility encompassing two fitness areas, multi-purpose courts, group fitness studio and offices
- Multi-functional athletic courts for basketball, volleyball, indoor soccer, pickleball and more
- Fitness center, which includes: Woodway treadmills, elliptical machines, stationary bikes, recumbent bikes, motion trainers, rowing machines, heavy lifting power racks, a full complement of free weights and more

Recreation Fields

- 2 flag football fields
- Soccer fields

Tennis Complex

- 12 lighted tennis courts

CRI encompasses multiple recreational areas in two campus locations: Aquatics (located in Statesboro), Club Sports, Fitness (including Group Fitness), Informal Recreation, Intramural Sports, Southern Adventures, Golf (located in Statesboro) and Shooting Sports Education (located in Statesboro).

The *Aquatics* Center provides the campus and surrounding community with a variety of recreational and educational programs designed to promote fun and safety on the water. We offer open swimming, diving, aqua aerobics, swim lessons, and lifesaving classes certified through the American Red Cross. Our facilities include an indoor pool that is handicap accessible, 1m and 3m diving boards, an outdoor leisure pool with basketball goals and a volleyball net, two whirlpools, a dry sauna and a locker room with showers.

Club Sports are unique student organizations in which the overall functions of the organization are student-operated. Club Sports offer a way of finding others who share similar recreational interests and may be organized for instructional, recreational and/or competitive purposes. We have clubs such as archery, baseball, disc golf, equestrian, firearms, fishing, lacrosse, tennis, track and field, ultimate frisbee and more. For a full listing, visit our Club Sports website (recreation.georgiasouthern.edu/club-sports)

Fitness programs promote health and wellness in many ways. Group fitness includes Yoga, Pilates, resistance training and traditional aerobic classes that help participants improve their cardiorespiratory fitness while also building strength and endurance. Personal training and fitness assessments are available to assist in evaluating fitness levels and providing guidance to reach or maintain fitness and wellness goals, while lifestyle and weight management workshops provide education and support for creating a personal health strategy.

The *Georgia Southern University Golf Course* at University Park provides an 18-hole championship golf course and comprehensive practice facility that is open to students, faculty, staff and the community. Programs and clinics are scheduled throughout the year to help introduce the fundamentals and build the skills necessary to enjoy a lifetime of golf. For those seeking to take their game to the next level, personal instruction with one of our PGA professionals is available. Visit our pro shop in the clubhouse for unique attire, golf equipment, golf club repair/

regripping, club sizing and more. To learn more or schedule a tee time, visit GSGolfCourse.com or call 912-GSU-GOLF.

Informal Recreation allows participants to engage in a variety of unstructured recreation activities such as basketball, volleyball, racquetball, walking or jogging. To support this mission, CRI also offers an equipment-lending program at no additional charge. Items available for checkout include hand wraps, boxing gloves, racquetballs, racquets and basketballs.

Intramural Sports provide students, faculty, and staff the opportunity for competition and fun in a variety of team and individual sports activities. Divisions are available for men, women, and co-rec teams in a range of skill and competition levels. Participants can compete in flag football, dodge ball, basketball, indoor/outdoor soccer, softball, golf, tennis, ultimate frisbee, bowling, volleyball and sand volleyball.

The *Shooting Sports Education Center* seeks to assist students, faculty, staff and the general public in developing the knowledge, skills and appreciation necessary to be a responsible hunter, archer or shooting sports enthusiast. Trained and certified staff provides instruction in the classroom and on the range to promote both competency and safe archery and firearms handling. The 30,000 square foot facility is open to the public and equipped to serve a variety of shooting sports interests through the 16 lane, 25-meter firing range, 16 lane, 25-meter archery center and two training/seminar rooms. Visit georgiasouthern.edu/ssec for more information.

Southern Adventures is the university community's resource for adventure programming. Southern Adventures provides guided backpacking, sea kayaking, canoeing and climbing trips that range from day trips to week-long outings around the southeast. Their equipment rental center also provides all the gear necessary for embarking on your own adventures. The challenge course is designed to provide exciting, experiential opportunities that focus on leadership, communication, self-awareness and interpersonal skills. A 45-foot climbing wall and bouldering cave allow participants to experience the thrill of rock climbing indoors. Instructional clinics are offered throughout the year to learn kayaking, belaying, navigating and other hard skills necessary to confidently and safely enjoy outdoor recreation.

Participation in CRI programs is completely voluntary. It is strongly recommended that all participants consult a physician and/or have a physical exam prior to participation. Participants are also urged to secure adequate personal medical coverage. Additional CRI program information can be found on our website at GeorgiaSouthern.edu/cri (<http://recreation.georgiasouthern.edu/>).

Counseling Center

The Counseling Center at Georgia Southern University is a place where students can go to receive services and participate in programs that are designed to help them handle day-to-day challenges and encourage their personal growth and development. The Counseling Center complements and facilitates the mission of the University by providing services ranging from individual, group, and relationship counseling to outreach programming, crisis intervention, and academic assistance. Students get the personal support they need in a welcoming and comfortable atmosphere. The Center's staff includes professionally trained psychologists and counselors who are committed to helping students meet their personal and educational goals.

The Center offers individual counseling in areas such as self-esteem, anxiety, depression, sexual identity, relationship conflicts, eating disorders, trauma and abuse issues, and family of origin concerns. Group counseling offers students the opportunity to interact with others who have similar concerns while developing more satisfying relationships. Relationship

counseling offers students an opportunity to build communication skills and conflict resolution in romantic relationships.

Case management connects students with referral resources to meet their individual needs.

The Center's staff offers drop-in workshops designed to provide students with additional opportunities for personal growth; including increasing emotional wisdom, improving sleep hygiene, and practicing mindful yoga. Online workshops and self-help resources are available on the Counseling Center website on a variety of topics for those who are interested in accessing skill building independently

Staff also provides outreach presentations to academic classes and student organizations on various mental health topics, such as stress management, dating violence, acquaintance rape, interpersonal relationships, and communication skills. Please see the online outreach request form. In addition, the Counseling Center houses the Sexual Assault Response Team, the SAFE SPACE program, and QPR Gatekeeper Training.

Counselors are also available to assist faculty who desire consultation about a student. The number to call (912) 478-5541 (Statesboro) or (912) 344-2529 (Armstrong).

Dining Plans

Eagle Blue	All access to the Dining Commons, Lakeside DC and The Galley DC / 100 Dining Dollar\$ / Seven (7) Weekly To-Go Meals / Seven (7) Guest Passes per semester	\$1775.00/semester ¹
Eagle Gold	All access to the Dining Commons, Lakeside DC and The Galley DC / 300 Dining Dollar\$ / Nine (9) Weekly To-Go Meals / Nine (9) Guest Passes per semester	\$1925.00/semester ¹

¹ Dining Dollar\$ and Guest Passes expire at the end of the semester and To-Go meals start over every Monday. The Rates quoted above are for Fall 2021 - Spring 2022 and may be subject to change per the University System of Georgia approval. Please visit the Eagle Dining Services website for current Dining Plan pricing auxiliary.georgiasouthern.edu/eagledining/ (<https://auxiliary.georgiasouthern.edu/eagledining/>) and Dining Plan Policy: auxiliary.georgiasouthern.edu/eagledining/eagle-unlimited-dining-plans/policy-statement/ (<https://auxiliary.georgiasouthern.edu/eagledining/eagle-unlimited-dining-plans/policy-statement/>).

Freshmen living on campus, first and second semester, are required to have an Eagle Blue or Eagle Gold Dining Plan. Information about this requirement is included on the University Housing Contract, Dining Plan Policy and Eagle Card Contract. Please read and understand this information before signing your housing contract. Freshmen may choose either the Blue or the Gold Dining Plan for the duration of their first two semesters on campus. Dining Dollar\$ are accepted at all dining locations on campus and GUS Mart locations. Guest Passes and To-Go meals may only be used at Residential Dining locations.

Enrollment Management

The Division of Enrollment Management is responsible for the strategic planning and implementation of University-wide enrollment management services and programs which include recruitment, enrollment, and graduation. Departments in the division include: Undergraduate Admissions, Financial Aid, the Registrar, International Student Admissions and Programs, Enrollment Services, Military and Veteran Services, and

Institutional Research. These departments provide support services to promote student success from application to graduation.

Health Services

Georgia Southern University Health Services is a department of Auxiliary Services and the Division of Student Affairs.

The Mission of Health Services is to provide high quality, compassionate healthcare, education and health promotion in support of student retention, graduation and positive long-term wellness.

Health Services is available to all Georgia Southern students with locations on the Statesboro and Armstrong campuses for consultation, examination, diagnosis, and treatment of illnesses and injuries. Services in both locations include primary care, women's health care, immunizations, laboratory testing, and travel medicine. Additional services at the Statesboro location include allergy injections, physical therapy, radiology services, retail pharmacy and vision care. Students may access services at either location.

Appointments on the Statesboro campus are self-scheduled using the Online Student Health (OSH) Patient Portal after logging into your WINGS or mygeorgiasouthern page (<https://my.georgiasouthern.edu/>). For appointments at the Armstrong campus clinic, call 912-961-5726. Same day appointments are available on a limited basis at both locations.

Health Services in Statesboro is located at 984 Plant Drive. Operating hours are 8:00a.m. to 5:00 p.m., Monday through Thursday, 9:00 a.m. - 5 p.m. on Friday. The Armstrong clinic is located at Compass point, 7000 Building. Operating hours are Monday through Friday, 9:00a.m - 5 p.m. An after hour and weekend Nurse Response Call Service is available for students by calling 1-855-779-7185. This service is staffed by experienced registered nurses who can assist with general health questions or, as well as referrals to area service providers as needed. Refer to our website for further information on community resources for emergencies and after hour care. All expenses related to emergency and after hours care are the responsibility of the student.

All Georgia Southern University students are eligible for Health Services. Students enrolled in four (4) or more credit hours prepay the health fee at the beginning of each semester when tuition and student fees are paid. This entitles those students to receive services throughout the semester for examination and treatment. Students taking less than four (4) credit hours or taking on-line courses may choose to pay the semester health fee at the Health Center to receive services. Refer to our website for a list of services that are covered by the semester health fee. Additional discounted fees are charged for provider visits, medications, laboratory services, physical therapy, x-rays, vision care, allergy injections, immunizations and medical equipment. Some students may have medical conditions that require referral to other healthcare providers or specialists for consultation and/or treatment. All expenses related to these services are the responsibility of the student. Health Services will file claims to your insurance plan as requested for services received at the Statesboro clinic only. A self-pay rate is available at both clinics.

A valid Georgia Southern University identification card is required to access services at Health Services. Insured students should also present a current insurance card for services received at the Statesboro clinic if they want to file a claim to their plan.

Students are encouraged to maintain health insurance coverage in case of hospitalization. For those who are no longer covered by their parents' insurance plan, or who may elect to purchase additional insurance coverage, a student health insurance plan is available. For more information about this plan, visit our web site for the link to the insurance company and their enrollment application form.

Health Services is proud to be among the outstanding student services offered by Georgia Southern University. Please feel free to contact us with your questions, comments, or suggestions at any time. Thank you for your interest in Health Services. We look forward to serving you.

For more information about the department, including public health updates by our medical director, visit our site at auxiliary.georgiasouthern.edu/healthservices (<http://auxiliary.georgiasouthern.edu/healthservices/>).

Immunization Requirements

The Board of Regents (BOR) of the University System of Georgia has established immunization requirements for all students.

All students are required to submit their immunization records, TB Screening Questionnaire and Medical history forms. These forms and directions for submittal of records can be accessed at our website, auxiliary.georgiasouthern.edu/healthservices/immunization (<http://auxiliary.georgiasouthern.edu/healthservices/immunization/>).

Students with religious objections or documented medical conditions that prohibit an immunization can receive an exemption from the immunization requirements. Students who have an approved exemption could be restricted from campus in the case of an outbreak of vaccine-preventable diseases, such as measles, mumps, rubella, or varicella.

HEALTH SERVICES STATESBORO
984 Plant Drive
Statesboro, GA 30460-8043
Main Phone: (912) 478-5641
Fax: (912) 478-1893

HEALTH SERVICES ARMSTRONG
Student Affairs Annex
Compass point, 7000 Building
11935 Abercorn St.
Savannah, GA 31419-1997
Main Phone: (912)961-5726
Fax: (912) 961-0679

E-mail: health@georgiasouthern.edu (health@georgiasouthern.edu)

Immunization Office Phone: (912) 478-0743
Immunization Email: immunizations@georgiasouthern.edu

Leadership & Community Engagement

Come visit the Office of Leadership & Community Engagement on the Statesboro Campus in Russell Union Suite 1056, on the Armstrong Campus in the Student Union Room 234, or call us at (912) 478-1435. You can also visit our website at <http://www.georgiasouthern.edu/LeadServe> (<http://www.georgiasouthern.edu/LeadServe/>), or contact us via email at leader@georgiasouthern.edu. (leader@georgiasouthern.edu)

The Office of Leadership & Community Engagement serves to advance the leadership potential and community engagement of Georgia Southern students. We utilize an integrated theoretical approach to learning, service, and leadership that empowers students to become active, global citizens who lead positive change. The Office also provides students with information and resources about the many opportunities available to invest their lives in the community. Volunteering is a powerful way for students to gain hands-on professional level experience while addressing existing social issues and community needs.

Some of the opportunities provided by the Office include:

- **Southern Leaders Program** - A nationally-recognized, comprehensive leadership development and community engagement program focused on personal leadership development, team building, and creating positive change. Southern Leaders learn how to make a difference in their community through interactive leadership lessons, community service, challenging team projects, and unique leadership experiences. Upon completion of all program requirements, participants receive the prestigious Southern Leaders Graduate medallion and seal.
- **Serve912** - Our local service initiative that engages students with communities in the 912 area code year-round through regularly scheduled volunteer trips, ongoing community service activities, and meeting local needs as part of the Director's Immediate Response Team (DIRT).
- **Community Liaisons** - A community engagement program in which student leaders are placed in community agencies to help recruit and manage university volunteers and to assist with other needs of the agencies. Community Liaisons serve to strengthen partnerships between Georgia Southern and the local community.
- **Service-Learning Student Facilitators** - Students in this program learn the theory and practical skills of service-learning to work alongside faculty as peer educators to create and manage service-learning experiences within academic courses.
- **Alternative Breaks** - Offered in December, March, May, and on select weekends, these low-cost trips offer students the opportunity to spend their breaks investing their lives in service to others while focusing on social issues.
- **LEAD Courses** - These free, non-credit bearing courses teach the practical application of leadership and service through interactive activities and reflection in the classroom environment. Students can register for these courses through WINGS.
- **Sustainability Programs** - Works to increase positive behavior through education and awareness on sustainability issues on campus and in the community. Programs include the Sustainability Fee Grant Program, the Campus Community Garden, Eco-Reps, and Sustainability Week.

Minority Advisement Program

The Minority Advisement Program (MAP) was established in 1986 to enhance the academic welfare of minority students in the University System of Georgia. The Minority Advisement Program is a peer mentor program designed to assist minority freshmen with their transition from high school to college and to facilitate a successful adjustment to Georgia Southern University. MAP is centered on minority first year students, but is open to any student seeking its services. With the assistance of peer leaders (MAP Sponsors), MAP tries to provide minority students with a wide variety of programs that assist them with the successful adjustment to Georgia Southern University academically and socially. Services include personal assistance to obtain resources available in areas such as academic advisement, financial aid, career counseling, tutoring, and campus orientation.

For more information about programs and services offered through the Minority Advisement Program, visit [student-life/minority-advisement-program/](https://students.georgiasouthern.edu/multicultural/) (<https://students.georgiasouthern.edu/multicultural/>) or visit the Office of Multicultural Affairs on the 2nd floor of the Russell Union Room #2070. You may also contact us at (912) 478-5409 or by email at oma@georgiasouthern.edu.

Office of Multicultural Affairs

The mission of the Office of Multicultural Affairs (OMA) supports Georgia Southern University's greater mission to support cultural diversity. The department is designed to educate and celebrate the cultural and ethnic diversity of students, staff and the Georgia Southern community. This is

accomplished by cultivating leaders who value civility, problem solving and heritage. The Office of Multicultural Affairs also promotes a fulfilling and comprehensive college experience which encourages social responsibility and personal well-being obtained through cultural opportunities both inside and outside the classroom. These include a series of support services, programs and activities that foster inclusion and pluralism.

In addition to facilitating diversity workshops in the classroom and for student organizations, the Office of Multicultural Affairs also organizes and promotes campus-wide diversity events which includes but is not limited to: lectures, conferences, trips and leadership workshops. The Office of Multicultural Affairs also collaborates with student organizations and faculty on cultural heritage month celebrations which include but are not limited to: Hispanic Heritage; Lesbian, Gay, Bisexual, Transgender Questioning (LGBTQ) Awareness; Women's History Month; Black History Month; Religious Awareness; and much more.

For more information about programs and services offered through the Office of Multicultural Affairs visit students.georgiasouthern.edu/multicultural/ or the offices located on the 2nd floor of the Russell Union Room 2070 on the Statesboro Campus and the 2nd floor of the Memorial College Center Rooms 211 and 212 on the Armstrong Campus. You may also contact us at (912) 478-5409 or by email at oma@georgiasouthern.edu.

Office of Student Conduct

Georgia Southern University exists to provide an environment in which intellectual achievement, scholarship, and character development can flourish. The Georgia Southern community (Students, Faculty, and Staff) willingly shares the responsibility for sustaining a creative and productive atmosphere through adherence to the highest standards of personal and professional conduct. All who are privileged to be a part of Georgia Southern campus life must remain aware they are representatives of Georgia Southern University, whether they are on campus or elsewhere, and are therefore expected to avoid behavior that brings discredit or dishonor upon themselves or the University as an institution. Recognizing trust is the cornerstone of all human relations, Students will work to build and sustain the trust of their peers, the faculty, and staff by following both the letter and the spirit of the Code of Student Conduct. A Student-centered University embraces a campus climate in which civility and respect among members of the campus community is viewed vital to the overall ethical development of its Students.

The University is dedicated not only to learning and the advancement of knowledge, but also to the development of ethically sensitive and responsible persons. It seeks to achieve these goals through sound educational programs and policies governing student conduct that encourage independence and maturity.

The student conduct process is not a court of law, and therefore does not follow prescribed legal or evidentiary standards. The student conduct process is also completely separate from any criminal proceeding and one will have no bearing on the other. Should a Student have a pending legal case, the University will move forward with the student conduct process.

The University may apply sanctions or take other appropriate action when the conduct of a Student interferes with the University's (a) responsibility of ensuring the opportunity for attainment of educational objectives; or (b) responsibility of protecting property, keeping records, providing services, and sponsoring non-classroom activities such as lectures, concerts, athletic events, and social functions. Georgia Southern University reserves the right to take necessary and appropriate action to protect the safety and well-being of the campus community.

The Office of Student Conduct utilizes Georgia Southern University email as its primary means of communication with Students. It is necessary for

Students to check their University email daily and to promptly respond to any requests from the Office of Student Conduct or designee.

Southern's Orientation, Advisement, and Registration (SOAR)

New Freshman & Transfer Students

Once accepted for admission, all new degree-seeking undergraduate students must attend Southern's Orientation, Advisement, and Registration (SOAR). SOAR is a mandatory orientation program for new incoming students (freshmen and transfers) to assist with their transition to University life. At SOAR, students will receive information about how to succeed both in and outside of the classroom through sessions with faculty, staff, and current students. Attendance at this program is how a student will receive their course schedule from academic advisors. Family members and supporters are encouraged to attend SOAR. There is a fee for both students and guests to attend. Accepted students may find more information and complete an online reservation, linked from the SOAR website, [GeorgiaSouthern.edu/SOAR \(https://admissions.georgiasouthern.edu/orientation/\)](https://admissions.georgiasouthern.edu/orientation/).

Fully Online Program Students

Students that have been admitted into fully online programs demonstrate to Georgia Southern an intent to enroll and commitment by registering for a SOAR date. This SOAR date is set to the first day of classes as online students do not have a formal SOAR event to attend. Once an admitted student registers for that commitment date, their academic advisement team will be notified and begin informing the student of next steps specific to their program. Accepted students may find more information and complete an online commitment reservation, linked from the SOAR website, [GeorgiaSouthern.edu/SOAR \(https://admissions.georgiasouthern.edu/orientation/\)](https://admissions.georgiasouthern.edu/orientation/).

For more information about SOAR, contact New Student & Family Programs at (912) 478-SOAR, orientation@georgiasouthern.edu, or visit the website at [GeorgiaSouthern.edu/orientation \(http://admissions.georgiasouthern.edu/orientation/\)](http://admissions.georgiasouthern.edu/orientation/).

Student Affairs

Dean of Students Office

The Dean of Students Office is committed to providing an environment that supports a transformative learning experience for students through outreach, programs and services. As a unit of the Division of Student Affairs, the Dean of Students Office upholds the values of the division by integrating a student centered approach. We strive to create a welcoming and inclusive environment for all students that is characterized by collegiality, civil discourse, safety and respect. The Dean of Students Office works collaboratively with other offices on campus to enhance the quality of student life.

Through one-on-one appointments, virtually and in-person, the Dean of Students Office connects with students to discuss and identify concerns so that the University may serve students more effectively. We assist individual students with navigating various challenges they may encounter while attending the institution. The Dean of Students Office is here to serve and support the success of all students. For more information, please visit our website at [students.georgiasouthern.edu/dean/ \(http://students.georgiasouthern.edu/dean/\)](http://students.georgiasouthern.edu/dean/).

Student Media

Students have the first and last word on news coverage and content of all George-Anne Media Group outlets.

The George-Anne Media Group engages students on all campuses through:

- The George-Anne Statesboro edition and The Georgia-Anne Inkwell Edition on the Armstrong campus are distributed in print every Thursday during the fall and spring semesters.
- Daily news articles, features and videos at [thegeorgeanne.com](http://www.thegeorgeanne.com/) (<http://www.thegeorgeanne.com/>), as well as promotion via social media.
- The George-Anne Daily email newsletter five days a week.
- The Reflector feature magazine once per semester.
- The Our House Guide guide for new students is distributed at Operation Move-In every fall.

Students of all majors are welcome to join a student media outlet. For more information, go to: <https://students.georgiasouthern.edu/student-media/>

Student Organizations

Part of each student's education is the development of his or her talents outside of the classroom. Through offering a wide variety of activities with over 300 student organizations, Georgia Southern University promotes this growth. Current student organization classifications include academic, creative and performing arts, cultural, honorary, professional, service, social action/political, social fraternities & sororities, special interest, spiritual, and sports. Students are encouraged to log on to Eagle Engage via my.georgiasouthern.edu (<https://my.georgiasouthern.edu/>) to gain more information about student organizations at Georgia Southern University or visit the Office of Student Activities (<http://students.georgiasouthern.edu/student-activities/>) website. You may also join the Office of Student Activities' page (on Eagle Engage) to receive our weekly newsletter, detailing various student engagement opportunities on campus and in the community!

The supervision and coordination of student activities and organizations, including the University Programming Board are the responsibility of the Office of Student Activities. At Georgia Southern University, student activities and organizations are regarded as an integral part of the total educational program. To be recognized on campus, organizations must contribute to the academic, recreational or cultural climate of the University. Therefore, the University reserves the right to officially recognize each student organization and requires that it function in accordance with its constitution and/or purpose. Procedures for establishing new organizations can be found in the Guide to Chartering a Student Organization (<https://students.georgiasouthern.edu/student-activities/start/>), available on the Office of Student Activities website. Practices of the various student organizations shall not be contrary to stated policies of the University. All students and student organizations are responsible for their conduct and for familiarizing themselves with the standards and regulations of the University. For more information on student organizations contact the Office of Student Activities, Statesboro campus: (912) 478-7270 | Williams Center-Room 2065 or Armstrong campus: (912) 344-2504 | Student Union-Suite D234.

Student Government Association

The Student Government Association (SGA) is the central student government organization on campus. There are executive officers and the President's Cabinet, all of whom fall under the leadership of the SGA President, representing the entire institution. Each member of the organization is elected each Spring Semester by the student body.

Student Government represents the student body in all phases of student life at Georgia Southern University and facilitates communication among the administration, the faculty, and the student body. Individuals or organizations desiring input into the total life of the campus should enlist the services of the officers and senators. For additional information, email or call the Student Government Association at (912) 478-0185 or sga@georgiasouthern.edu. You can also access their website at students.georgiasouthern.edu/SGA (<http://students.georgiasouthern.edu/sga/>). The SGA office is located in Russell Union 1010 on the Statesboro Campus and Memorial College Center (MCC) 201 on the Armstrong Campus.

Office of Fraternity and Sorority Life

The Office of Fraternity and Sorority Life is an active part of student life on campus. Approximately 3,000 undergraduate students are members of 20 fraternities and 18 sororities on both the Armstrong and Statesboro campuses. These organizations provide opportunities for members to develop and refine personal leadership skills, make new friends, participate in campus activities and athletics, contribute to local and national philanthropies, and improve their scholarship aptitude. For additional information, call the Office of Fraternity and Sorority Life at (912) 478-5185 or access their website at www.georgiasouthern.edu/fsl (<http://www.georgiasouthern.edu/fsl/>).

Student Media

The Office of Student Media oversees student-run news outlets based on both the Statesboro and Armstrong campuses. We engage Georgia Southern students every day to provide information and promote reflection, conversation and action. We do this in print, in person and online with words, photography, video and advertising and marketing services. Students who participate in our program learn communication skills, critical thinking in a business environment, teamwork and leadership. They often go on to media careers, but the program is open to all majors and all career interests. For more information and to apply to join, go to students.georgiasouthern.edu/student-media/ (<https://students.georgiasouthern.edu/student-media/>).

University Programming Board

University Programming Board is Georgia Southern University's student-led programming board that consists of Executive Officers and 60+ general members. This student organization provides programming that allows students to maintain a healthy balance between academic pursuits and social activities. The University Programming Board offers a diverse selection of popular entertainment, spirited events, and campus traditions throughout the year and supports the academic mission of Georgia Southern University by collaborating with various academic departments, organizations, and offices to provide programming based on a variety of topics and interests.

Major events produced by the University Programming Board during the fall semester include Homecoming, Family Weekend Block Parties and holiday lighting ceremonies. The Miss Georgia Southern University Scholarship Competition, indoor/outdoor movies, and special performances are also among the many programs coordinated during the spring semester. All events are open to Georgia Southern University students, faculty, and staff with their Eagle ID.

For more information about what programs are coming to campus, information about how to get involved, or a schedule of events, please visit our website at: students.georgiasouthern.edu/student-activities/ (<http://students.georgiasouthern.edu/student-activities/>) or contact the:

University Programming Board, Statesboro campus
Williams Center-Room 2061
upb@georgiasouthern.edu
University Programming Board, Armstrong campus

Student Union-Suite D234
upba@georgiasouthern.edu

Tech Corner

Your technology destination. Stocked with computers, accessories, games and electronics, Tech Corner has the latest and greatest technology for life on and off-campus. Whether you're studying or working, entertaining or making a statement, you can find what you need at the prices you want at Tech Corner!

With Tech Corner, the latest in technology and electronics is right around the corner. If you don't see what you're looking for, let us know; we are able to special order merchandise from all of our distributors. Visit our store on the Statesboro Campus, or shop online for the best selection of laptops and tablets, headphones and speakers, gaming systems, mobile & tablet accessories, and more! Order online by visiting GSTechCorner.com (<https://www.gstechcorner.com/>) and pick up in-store. (<http://www.gstechcorner.com/>)

Technology You Need Competitive Pricing

With students in mind, we strive to keep prices low on our products. All of our merchandise is priced with an education discount.

Reliable Support & Service

Our in-house computer service center is factory authorized to assist with maintenance and repair. We also offer protection plans on all of our merchandise. The Tech Corner is an Apple Authorized repair and service center, capable of filing AppleCare warranty claims.

Contact Tech Corner:

(912) 478-7744
techcorner@georgiasouthern.edu

The University Store

You'll find the textbooks and academic supplies you need for class plus gameday apparel and spirit merchandise all in one place at the University Store on the Statesboro and Armstrong campuses. Because the store is owned and operated by Georgia Southern University, store profits are reinvested into the campus community, so you're supporting your University every time you shop.

Textbooks | Textbook Rentals | Ebooks

University Store offers all required textbooks for the all Georgia Southern courses. Unlike other bookstores, they work with campus faculty to ensure that they sell only the correct and complete editions of textbooks and course materials that are requested by the instructor. The store offers multiple purchasing options by selling both new and used books and eBooks. They also offer book rentals that can save students up to 75% off of new book costs. For your convenience, books can be purchased via your WINGS account or via the store's website at GSUstore.com. Books and course materials may be purchased with available financial aid bookstore credit - all you need is your Eagle Card!

During Buyback at the end of each semester, University Store will buy your new or used textbook as needed if it will be used by faculty in the upcoming semesters.

Supplies

University Store sells basic school supplies like bookbags, binders, pens and pencils, scantrons, etc. as well as class and major-specific supplies and items such as lab coats and glasses, sketch paper and portfolio holders. Your financial aid bookstore credit may be used to purchase any of the supply items that are sold at the store during the beginning of each term.

Apparel and Merchandise

Offering the best and largest selection of men's, women's and children's official Georgia Southern University gear and apparel, you're sure to find something for every Eagle fan at the University Store! Shop the latest styles in store or online at GSUstore.com. You can even make a wishlist of your favorite items on the website to share with your friends and family. Make sure to sign up for our U-Count rewards program, and you'll earn reward points every time you shop!

University Programming Board

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Major events produced by the University Programming Board during the fall semester include Homecoming, Family Weekend Block Parties, and holiday lighting ceremonies. The Miss Georgia Southern University Scholarship Competition, indoor/outdoor movies, and special performances are also among the many programs coordinated during the spring semester. All events are open to Georgia Southern University students, faculty, and staff with their Eagle ID.

For more information about what programs are coming to campus, information about how to get involved, or a schedule of events, please contact the Office of Student Activities, Statesboro campus: Williams Center-Room 2065 | (912) 478-7270 or Armstrong campus: Student Union, Suite D234 | (912) 344-2504, or visit our website at: students.georgiasouthern.edu/student-activities (<http://students.georgiasouthern.edu/student-activities/>).

Search Courses

Welcome to Course Search

Use the search panel on the left to find and narrow down courses of interest.

Archived Catalogs

2019-2020 Undergraduate and Graduate Catalogs (<https://catalog.georgiasouthern.edu/archive/2019-2020/>)

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