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Sep 25th, 4:30 PM - 5:30 PM

A Faculty-Librarian Partnership for Investigative Learning in the Introductory Biology Laboratory

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A Faculty-Librarian Partnership: Introductory Biology

Dr. Nitya Jacob, Associate Professor of Biology
Andrea P. Heisel, Associate College Librarian
About Oxford College

- Founded in 1836
- Original Emory University Campus

- Total student body = 750
- 325 different high schools
- 36 states
- 16 foreign countries

Liberal Arts Intensive Philosophy: specifically aims to develop the knowledge, skills, and habits of mind that manifest curiosity, a spirit of inquiry, critical and ethical reasoning, clarity in writing and speech, educated citizenship, and community engagement.
<table>
<thead>
<tr>
<th>Biology 141</th>
<th>Expected Learning Outcomes</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>1. Learn the process of searching for literature</td>
</tr>
<tr>
<td></td>
<td>2. Learn to select references for quality and relevance</td>
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<tr>
<td>Biology 142</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1. Apply the process of searching literature for a longer term research project</td>
</tr>
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<td></td>
<td>2. Learn to be more proficient at selecting references</td>
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Bio 141: Assignment

**Introduction and References**
- Laboratory Investigation 1: Faculty Only
- Library Workshop: Active Learning: Co-teachers

**Abstract, materials and methods, results, and discussion**
- Laboratory 2-4: Faculty Only
- Independent Research Project: Librarians visit laboratory

**Symposium and full paper**
- Group presentations: Librarians attend session
- Open-forum: Co-facilitators
# Assignments

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Biology 141</th>
<th>Biology 142</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to library workshop assignment</td>
<td>Search for references (only lab manual reading given as a guide)</td>
<td>n/a</td>
</tr>
<tr>
<td>First Paper</td>
<td>Introduction and references on short investigation</td>
<td>Complete paper on short investigation</td>
</tr>
<tr>
<td>Final Assignment</td>
<td>Complete paper on research project</td>
<td>Complete paper on research project</td>
</tr>
</tbody>
</table>
Distribution of Types of References in the First Assignment

Types of References

Distribution in Bibliography (%)
Distribution of Types of References in Final Assignment

- **Journal Articles**: Biology 141 (70%) Biology 142 (80%)
- **General**: Biology 141 (20%) Biology 142 (10%)
- **Books**: Biology 141 (10%) Biology 142 (5%)
Inclusion of Peer-Reviewed Articles in Bibliography

- Prior to Library Workshop
- First Assignment
- Final Paper

Distribution in Bibliography (%)

Biology 141
Biology 142
Conclusion

• What we learned
• Applying it to other disciplines
• Student responses