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

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Jacob, Nitya Dr. and Heisel, Andrea P., "A Faculty-Librarian Partnership for Investigative Learning in the Introductory Biology Laboratory" (2009). *Georgia International Conference on Information Literacy*. 61. <https://digitalcommons.georgiasouthern.edu/gaintlit/2009/2009/61>

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# A Faculty-Librarian Partnership: Introductory Biology

Dr. Nitya Jacob, Associate Professor of Biology

Andrea P. Heisel, Associate College Librarian



EMORY

OXFORD  
COLLEGE

# 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.*

## Expected Learning Outcomes

### **Biology 141**

1. Learn the process of searching for literature
2. Learn to select references for quality and relevance

### **Biology 142**

1. Apply the process of searching literature for a longer term research project
2. Learn to be more proficient at selecting references

## Bio 141: Assignment

## Faculty-Librarian Collaboration and Activity

Introduction and  
References

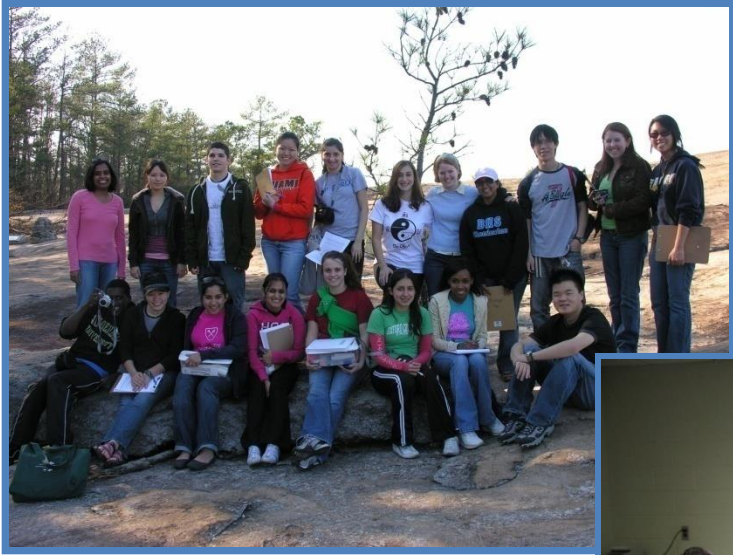
- Laboratory Investigation 1:  
**Faculty Only**
- Library Workshop: Active Learning:  
**Co- teachers**

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**





## Bio 142: Assignment

## Faculty-Librarian Collaboration and Activity

Full Paper

- Laboratory Investigation 1:  
**Faculty Only**
- Independent reference search:  
**No instruction**

Research  
Question

- Literature search session:  
**Co-teachers**
- Laboratory research project:  
**Librarians visit the laboratory**

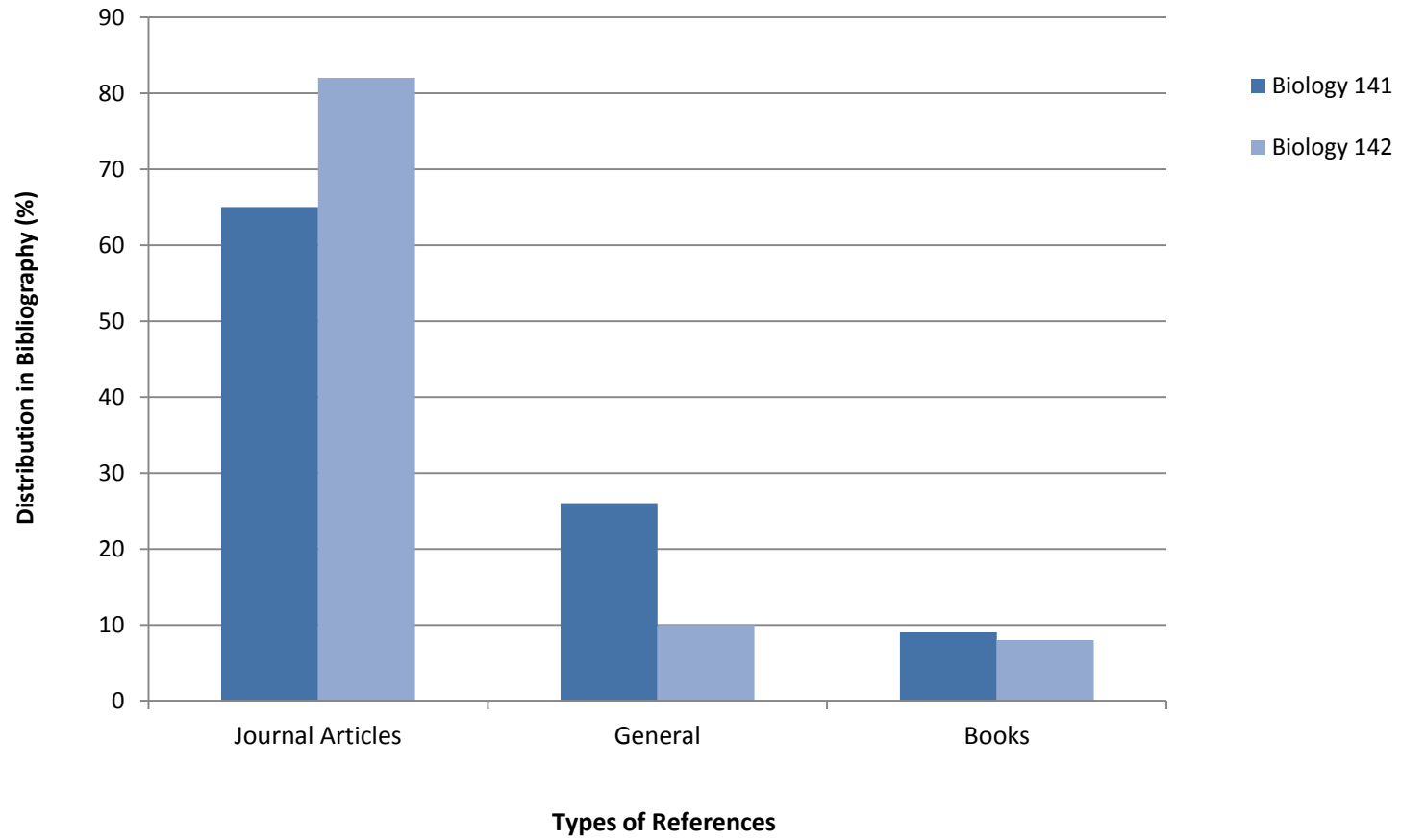
Symposium  
and Full Paper

- Group presentations:  
**Librarians attend session**
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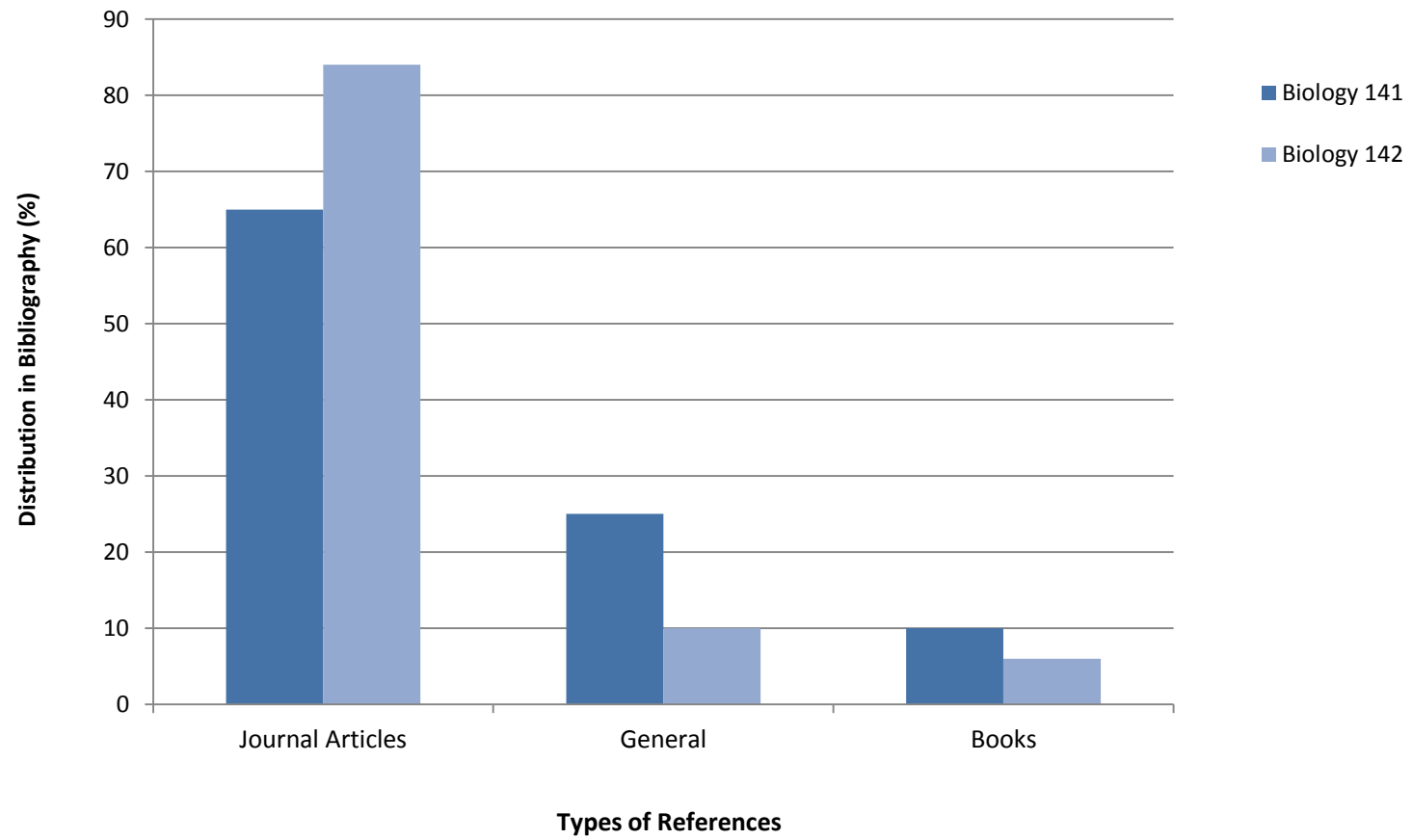
# Assignments

Assignment	Biology 141	Biology 142
Prior to library workshop assignment	Search for references (only lab manual reading given as a guide)	n/a
First Paper	Introduction and references on short investigation	Complete paper on short investigation
Final Assignment	Complete paper on research project	Complete paper on research project

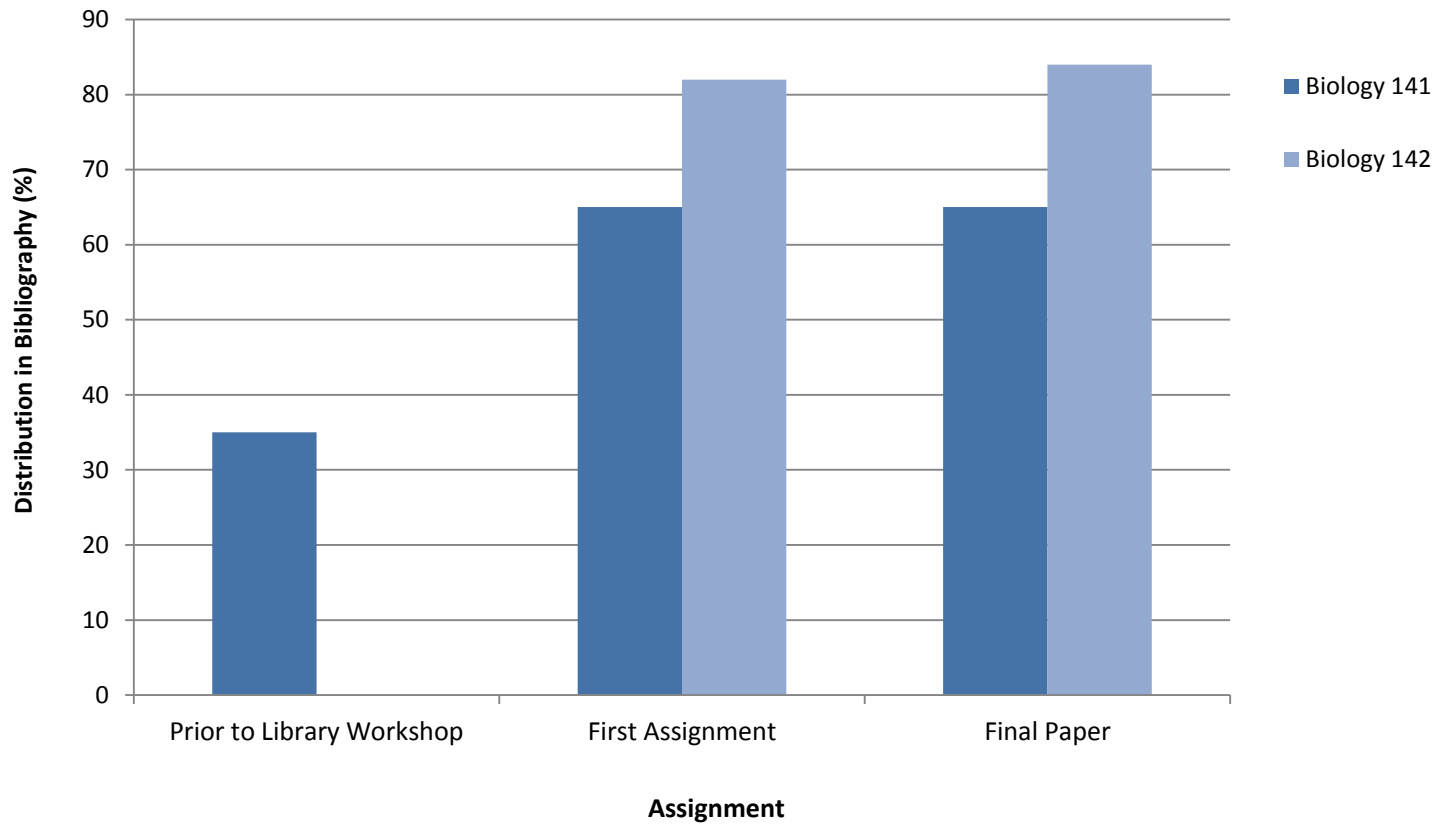




**Distribution of Types of References in the First Assignment**



**Distribution of Types of References in Final Assignment**



### Inclusion of Peer-Reviewed Articles in Bibliography

# Conclusion

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

