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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



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

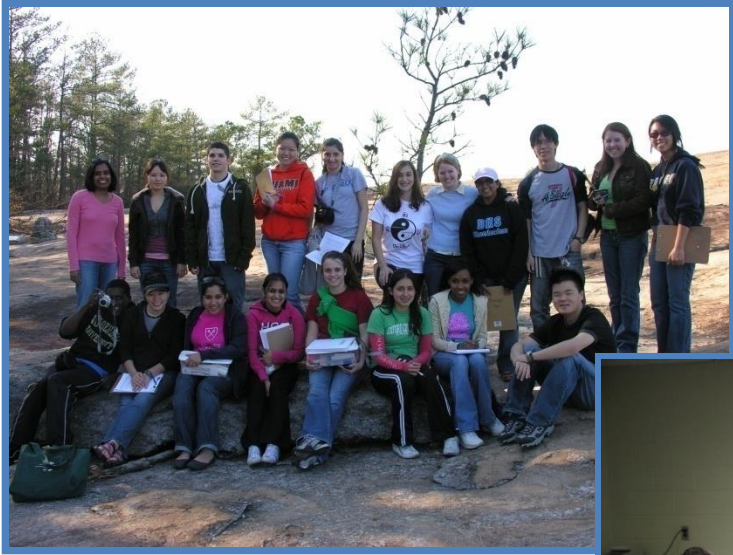
- Laboratory Investigation 1:
Faculty Only
- Library Workshop: Active Learning:
Co- teachers

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

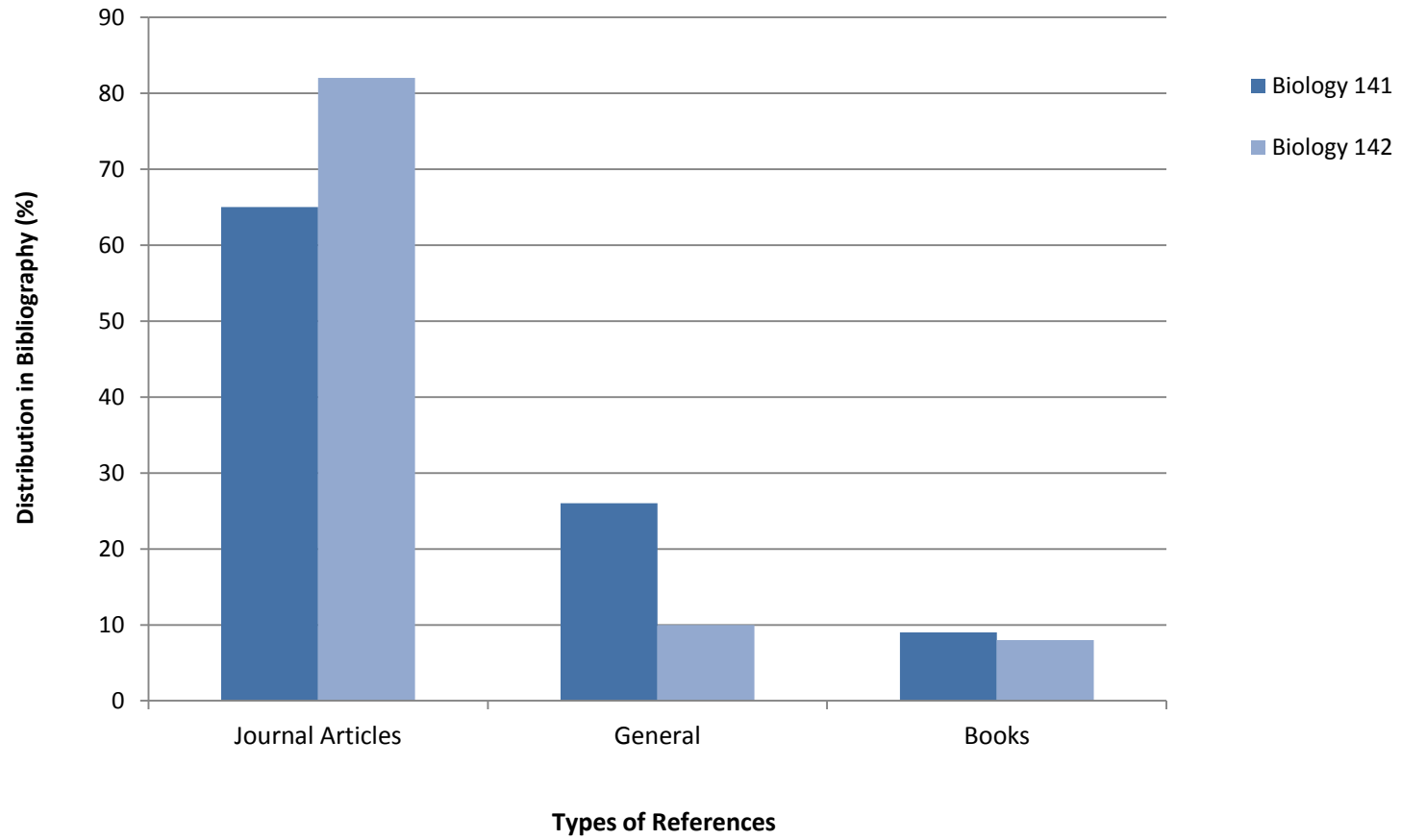
- Literature search session:
Co-teachers
- Laboratory research project:
Librarians visit the laboratory

Symposium and Full Paper

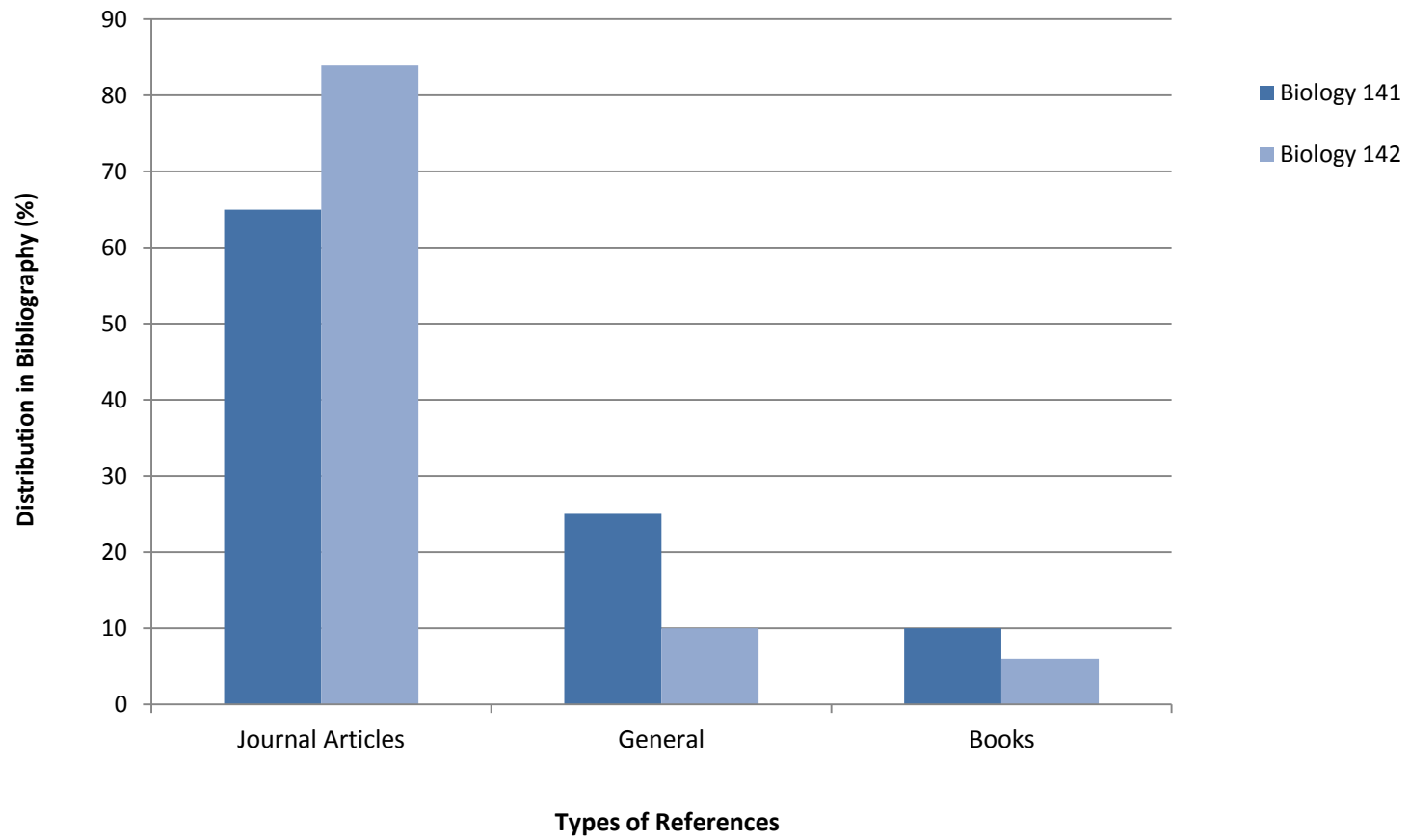
- Group presentations:
Librarians attend session
- Open-forum: **Co-facilitators**

Assignments

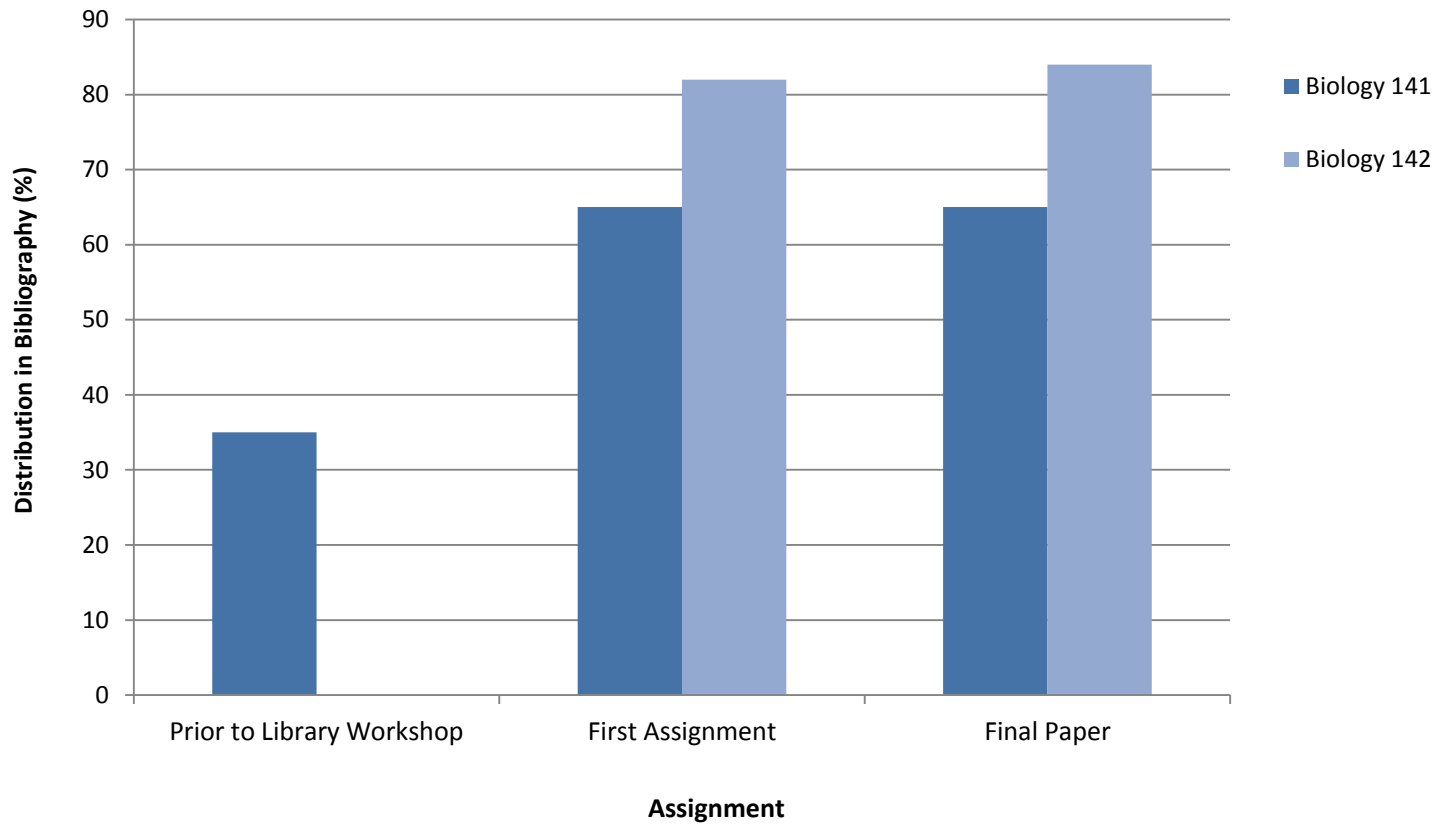
Assignment	Biology 141	Biology 142
Prior to library workshop assignment	Search for references (only lab manual reading given as a guide)	n/a
First Paper	Introduction and references on short investigation	Complete paper on short investigation
Final Assignment	Complete paper on research project	Complete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

