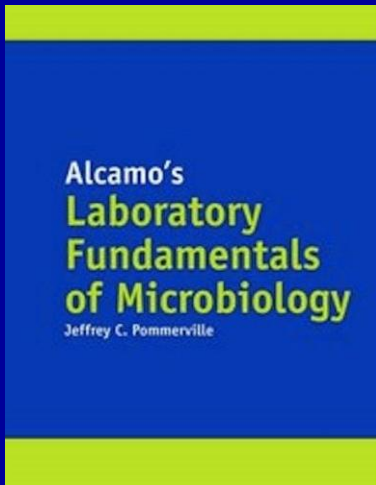


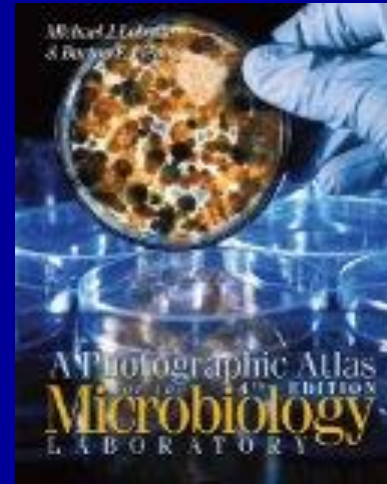
Complete College OCCC – One Year Innovation Grant

Microbiology Lab Manual and
Photographic Atlas Combined

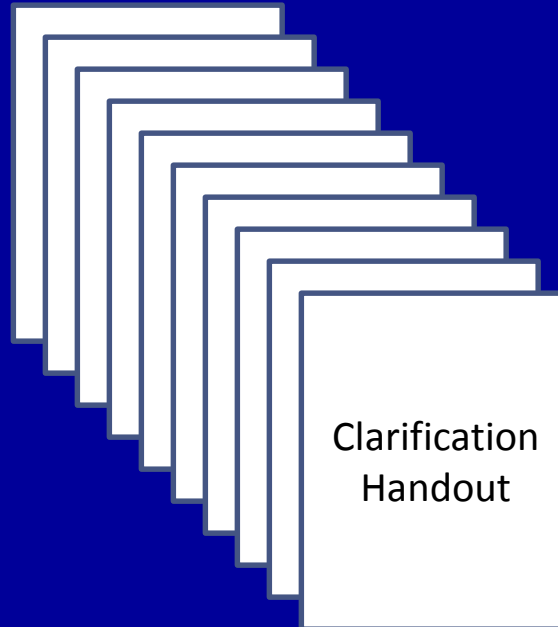
Brenda Breeding
John McMurray
George Risinger
Ronald Scribner
Robyn Senter



Required



Optional



Printed by Department

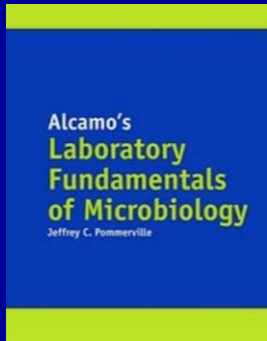
Goal: Improving Second Year Course Success (BIO 2125)

Objectives

1. Greater comprehension and understanding of the “applied” aspects of microbiology by the students. (Student understanding of the logical procedure in disease identification.)
2. Better management of the microbiology labs by the lab assistants. (Students receive information without significant modifications.)
3. Significant reduction in the costs to the students. (Save approximately \$90.)

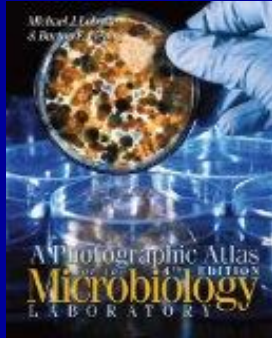
Project Description and Funding

- Five faculty members proposed to write and typeset the manual over the academic year (2013-2014)
- Worked with Morton Publishing Company, who provided images and formatting input and printed the manual
- Funding:
 - Faculty members each received 2 hours of adjunct pay (\$1340/faculty member, \$6700 total) to complete the project
 - Morton Publishing is paid from their profits from the manual

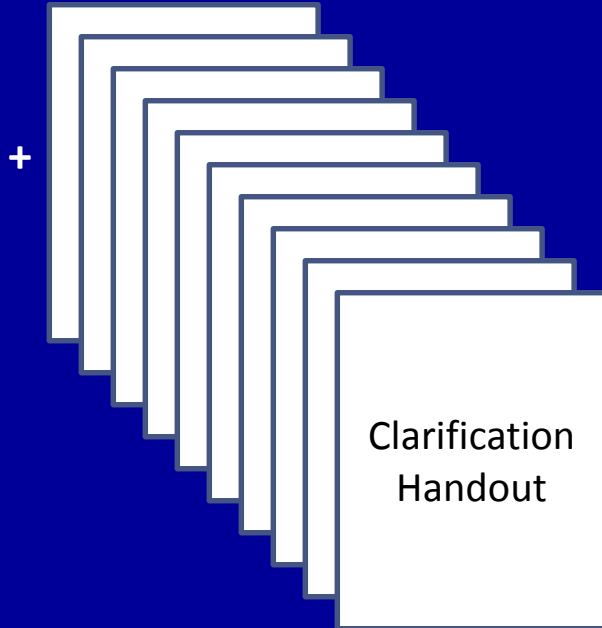


360 pages

+



264 pages



25 pages

=

(649 total pages)

Laboratory Manual to Accompany

BIO 2125

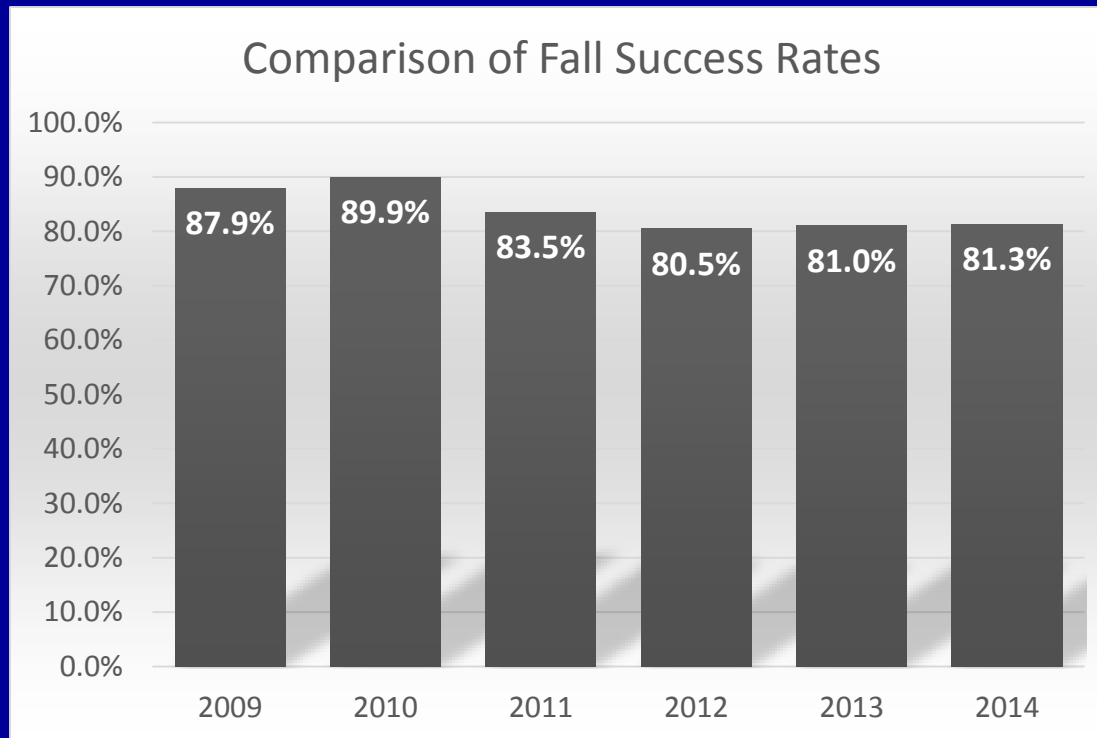
Microbiology



Brenda Breeding
John McMurray
George Risinger
Ron Scribner
Robyn Senter

146 pages

Evaluation of Greater Comprehension



Evaluation of Better Laboratory Management

- Several aspects of laboratory management have been streamlined
- Special thanks to Virginia Hovda and Megan Fuller for their detailed evaluation and input into the materials required for each experiment
- Also, several adjunct professors have provided input regarding edits/clarifications to the manual
- Editing of the Laboratory Manual is currently underway and will take their input into account
 - The second edition will be published Fall 2015

Evaluation of Cost

Previous Laboratory Manual = \$ 91.15
+ Previous Laboratory Atlas = \$ 43.20

Previous Total Cost = \$134.35

Current Laboratory Manual = \$ 29.95

Total Savings for each Student = **\$104.40!!!**

Over \$44,000 remaining in students' pockets for
2014-2015 (so far)!

What went well?

- Cooperative effort among the microbiology faculty
- COST SAVINGS!!!
- Interaction with Morton Publishing Company

Areas for Improvement

- Second edition underway
 - Edited based on input from students, staff and faculty
- Analysis of laboratory exercises to facilitate greater student comprehension

Thank you!