BIL 151 LABORATORY SYLLABUS - Fall 2012

**Week of:**
**August 27**
**Lab Topic:** Session #1: Competing Hypotheses and the Scientific Method
Pre-quiz (does not count towards your grade)

**September 3**
**LABOR DAY HOLIDAY:**

**September 10**
**Lab Topic:** Session #2: Collecting and Analyzing Data
Quiz #1 10 points
*assignment:* team background research and Forum participation

**September 17**
**Lab Topic:** Session #3: Enzymatic Reactions: Original Experiments
Quiz #2 10 points
Experiment execution: 25 points
*assignment:* prepare data for next week's presentation prep

**September 24**
**Lab Topic:** Session #4: Enzymatic Reactions Symposium
Quiz #3 10 points
Symposium PowerPoint presentation of Enzyme Experiment (25 points)

**October 1**
**Lab Topic:** Session #5: Planning Session for Research Project #1
Quiz #4 10 points

**October 8**
**Lab Topic:** Session #6: Begin Experiments for Research Project #1

**October 15**
**Lab Topic:** Session #7: Complete Experiments for Research Project #1

**October 22**
**Lab Topic:** FALL BREAK. NO LABS THIS WEEK.
*assignment:* continue prepare data for next week's presentation

**October 29**
**Lab Topic:** Session #8: Poster Symposium on Research Project #1
Quiz #5 (10 points)

**November 5**
**Lab Topic:** Session #9: Planning Session for Research Project #2
Experiment execution: 25 points

**November 12**
**Lab Topic:** Session #10: Begin Experiments for Research Project #2
Experiment execution: 25 points

**November 19**
**Lab Topic:** THANKSGIVING HOLIDAY: NO LABS THIS WEEK

**November 26**
**Lab Topic:** Session #11: Complete Experiments for Research Project #2

**Finals period (Dec 5 – 12)**
**Lab Topic:** Final PowerPoint Symposium on Research Project #2
Check finals schedule for your lab’s symposium at:
http://www.bio.miami.edu/dana/151/151F12_finals.html
Symposium PowerPoint presentation (25 points)

**Required Lab Manual:**
Go Figure by Dana Krempels: www.bio.miami.edu/dana/151
(online and free)

**Required readings:** Your laboratory instructor may assign readings from your BIL 150 textbook as part of your background learning for your laboratory experiments. These should be considered “fair game” for quizzes.
LABORATORY POLICIES

LAB MANUAL
All laboratory information and topics are included in Go Figure by Krempels. YOU MUST BRING YOUR LAB MANUAL WITH YOU TO THE FIRST LAB AND TO EVERY LAB, either in hard copy, on your laptop, iPad, or whatever your choice of platform. You are strongly encouraged to bring your laptop (or similar electronic device) to lab each week, for the purpose of literature search and working on your research with this tool. The lab manual can be downloaded from the syllabus: www.bio.miami.edu/dana/151

RESEARCH SYMPOSIA
For the three research projects, teams will present their findings in the form of either a PowerPoint presentation or a Poster presentation. Your lab instructor will tell you which symposia will use which formats.

Research experiments done by each team should be considered an ongoing endeavor. Teams should meet outside of lab to discuss experiments, make changes and improvements, share reading background literature, etc. You are expected to treat this as a true research project

ATTENDANCE AND MAKE UPS
Attendance in laboratory is MANDATORY. DO NOT MISS LABORATORY!
Labs are completely dismantled at the end of the week. Therefore, if you miss a lab, you must notify your TA immediately. Whether you will be allowed to take a make up quiz or do other make up work is up to the discretion of your TA. Be forewarned: You will not receive credit for a research report if you did not actually perform the experiment.

GRADING
Enzyme Research Preparation 25
Enzyme Research Experimental Execution 25
Enzyme Symposium 25
Research Project #1 Research Preparation 25
Research Project #1 Experimental Execution 25
Research Project #1 Symposium 25
Research Project #2 Preparation 25
Research Project #2 Experimental Execution 25
Research Project #2 Symposium 25
Quizzes 50
Discretionary points 25
TOTAL 300

Note: The Pre-Quiz (first day) and Post-Quiz are not part of your grade. They are meant to help us monitor your progress in understanding the scientific process.

LABORATORY EQUIPMENT
Any student found guilty of wanton negligence or abuse of lab equipment (such as leaving a microscope dirty, leaving a microscope slide on the scope stage, leaving glassware dirty, leaving a scope cord dangling and hazardous for the next student, throwing trash in the sinks etc.) will automatically be docked 5 discretionary points. THIS IS YOUR OPPORTUNITY TO LEARN HOW TO PROPERLY USE THE SKILLS AND TOOLS OF YOUR CHOSEN FUTURE PROFESSION. WE'RE HERE TO HELP YOU, BUT WE CAN'T DO IT WITHOUT YOUR COOPERATION.

ACADEMIC ETHICS/ HONOR CODE
Cheating in any form will not be tolerated, and is easily detected by our very experienced and jaded TAs. Any student suspected of cheating will be brought before the Honor Council to stand trial. If found guilty, the student will receive an F for the course.