## BIL 151 LABORATORY SYLLABUS - Fall 2007

### Week of:  
**August 27**

**Lab Topic:** Lab #1: The Scientific Method  
assignment: mini report on today's experiment (due next Tuesday) (15 pts)

**September 3**

**Lab Topic:** No Labs This Week: Labor Day Holiday

**September 10**

**Lab Topic:** Lab #2: Collecting and Analyzing Data  
Quiz #1 10 points  
assignment: teams choose variable to test for Enzyme Lab

**September 17**

**Lab Topic:** Lab #3: Enzymes and Enzymatic Reactions  
Quiz #2 10 points  
Experiment execution: 25 points  
assignment: prepare data for next week's presentation prep

**September 24**

**Lab Topic:** Lab #4: Enzymes and Enzymatic Reactions Symposium  
Quiz #3 10 points  
Symposium ppt presentation of Enzyme Experiment (25 points)

**October 1**

**Lab Topic:** Lab #5: Mendelian Genetics  
Quiz #4 10 points  
assignment: Genetics Problems (15 points) due IN LAB TODAY  
assignment: teams choose variable to test for Respiration Lab

**October 8**

**Lab Topic:** FIRST LAB EXAM (100 points)

**October 15**

**Lab Topic:** No Labs This Week: Fall Break

**October 22**

**Lab Topic:** Lab #6: Aerobic & Anaerobic Metabolism  
Experiment execution: 25 points  
assignment: prepare data for next week's presentation prep

**October 29**

**Lab Topic:** Lab #7: Aerobic & Anaerobic Metabolism Symposium  
Quiz #5 (10 points)  
Symposium ppt presentation of Metabolism Experiment (25 points)

**November 5**

**Lab Topic:** Lab #8: Photosynthesis: Physical Properties of Pigments  
Quiz #6 (10 points)  
assignment: teams choose variable to test for Respiration Lab

**November 12**

**Lab Topic:** Lab #9: Photosynthesis: Manipulation of the Light Reactions I  
Experiment execution: 25 points  
Quiz #7 (10 points)  
assignment: prepare data for next week's presentation prep

**November 19**

**Lab Topic:** No Labs This Week: Thanksgiving Holiday

**November 26**

**Lab Topic:** Lab #10: Photosynthesis Symposium  
Quiz #8 (10 points)  
Live ppt presentation of Photosynthesis Experiment (25 points)

**Finals Period**

**Lab Topic:** SECOND LAB EXAM (100 points)

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**Required:** Go Figure by Dana Krempels at [www.bio.miami.edu/dana/151/gofigure](http://www.bio.miami.edu/dana/151/gofigure)

**Required readings:** Assigned lecture readings from Biology by Campbell should be considered required reading for laboratories, as well. Especially if your lab is a bit ahead of lecture (and it will be, sometimes), read the text assignments before you come to lab. Anything in the textbook is fair game for your TA to use in quizzes.
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LABORATORY POLICIES

LAB MANUAL
All laboratory exercises 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 or on your laptop! It will be your guide through the Wonderful World of Biology. The manual can be downloaded here:

www.bio.miami.edu/dana/151/gofigure

RESEARCH SYMPOSIA
For the three experimental laboratories (Lab #3, #6 and #9), all lab reports will be presented as Power Point shows by your team. You will spend one lab period designing and doing your experiment, and the following lab period creating a Power Point presentation WITH YOUR TEAM on the data you collected in the previous lab. You and your teammates should get together before the Power Point prep session to analyze your data and decide how to present your results and discussion. Your TA will allocate 10 minutes for each team's presentation, to be given at the end of the lab in a symposium format. Until the symposium begins, your team should be preparing its presentation and getting ready to answer questions from your classmates/colleagues.

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 lab report if you did not actually perform the experiment.

GRADING

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
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<tbody>
<tr>
<td>Lab #1 Mini report</td>
<td>15</td>
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<tr>
<td>Enzyme Experiment</td>
<td>25</td>
</tr>
<tr>
<td>Enzyme Symposium</td>
<td>25</td>
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<tr>
<td>Genetics problems</td>
<td>15</td>
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<tr>
<td>Lab Exam I</td>
<td>100</td>
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<td>Metabolism Experiment</td>
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<td>Metabolism Symposium</td>
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<tr>
<td>Photosynthesis Symposium</td>
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<td>Quizzes</td>
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<tr>
<td>Lab Exam II</td>
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<tr>
<td>Discretionary points</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>500</strong></td>
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Late assignments are docked 2 points per day. Don't wait until the night before to start writing!

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, including copying on exams and plagiarism on lab reports, will not be tolerated, and is easily detected by our very experienced and jaded TAs. Any student caught cheating will automatically receive an "F" in the course and brought before the Honor Council for possible further penalties. Don't try us. We're mean.