

BIL 151 LABORATORY SYLLABUS - Fall 2009

<u>Week of:</u>	<u>Lab Topic:</u>
August 31	Lab #1: The Scientific Method assignment: mini report on today's experiment (due next Tuesday) (15 pts)
September 7	LABOR DAY HOLIDAY: NO LABS THIS WEEK
September 14	Lab #2: Collecting and Analyzing Data Quiz #1 10 points <u>assignment:</u> teams choose variable to test for Enzyme Lab
September 21	Lab #3: Enzymes and Enzymatic Reactions Quiz #2 10 points Experiment execution: 25 points <u>assignment:</u> prepare data for next week's presentation prep
September 28	Lab #4: Enzymes and Enzymatic Reactions Symposium Quiz #3 10 points <u>Symposium ppt presentation</u> of Enzyme Experiment (25 points)
October 5	Lab #5: Mendelian Genetics Quiz #4 10 points <u>assignment:</u> Genetics Problems (15 points) due IN LAB TODAY <u>assignment:</u> teams choose variable to test for Respiration Lab
October 12	FALL BREAK: NO LABS THIS WEEK
October 19	<u>FIRST LAB EXAM (100 points)</u>
October 26	Lab #6: Aerobic & Anaerobic Metabolism Experiment execution: 25 points <u>assignment:</u> prepare data for next week's presentation prep
November 2	Lab #7: Aerobic & Anaerobic Metabolism Symposium Quiz #5 (10 points) <u>Symposium ppt presentation</u> of Metabolism Experiment (25 points)
November 9	Lab #8: Photosynthesis: Physical Properties of Pigments Quiz #6 (10 points) <u>assignment:</u> teams choose variable to test for Respiration Lab
November 16	Lab #9: Photosynthesis: Manipulation of the Light Reactions I Experiment execution: 25 points Quiz #7 (10 points) <u>assignment:</u> prepare data for next week's presentation prep
November 23	THANKSGIVING HOLIDAY: NO LABS THIS WEEK
November 30	Lab #10: Photosynthesis Symposium Quiz #8 (10 points) <u>Symposium ppt presentation</u> of Photosynthesis Experiment (25 points)
Finals Period	<u>SECOND LAB EXAM (100 points)</u>

Required Lab Manual:

Go Figure by Dana Krempels: DOWNLOAD at 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.

BIL 151 LABORATORY SYLLABUS - Fall 2009

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

Lab #1 Mini report	15	
Enzyme Experiment	25	
Enzyme Symposium	25	
Genetics problems	15	
Lab Exam I	100	
Metabolism Experiment		25
Metabolism Symposium		25
Photosynthesis Experiment	25	
Photosynthesis Symposium	25	
Quizzes	80	
Lab Exam II	100	
<u>Discretionary points</u>	<u>40</u>	
TOTAL	500	

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*.