

BIL 151 LABORATORY SYLLABUS - Fall 2011

<u>Week of:</u>	<u>Lab Topic:</u>
August 29	Lab #1: The Scientific Method Pre-quiz (30 pts)
September 5	LABOR DAY HOLIDAY: NO LABS THIS WEEK
September 12	Lab #2: Collecting and Analyzing Data Quiz #1 10 points <u>assignment</u> : team background research and Forum participation
September 19	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 26	Lab #4: Enzymes and Enzymatic Reactions Symposium Quiz #3 10 points <u>Symposium ppt presentation</u> of Enzyme Experiment (25 points)
October 3	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 10	FALL BREAK: NO LABS THIS WEEK
October 17	<u>FIRST LAB EXAM (100 points)</u>
October 24	Lab #6: Aerobic & Anaerobic Metabolism Experiment execution: 25 points <u>assignment</u> : prepare data for next week's presentation prep
October 31	Lab #7: Aerobic & Anaerobic Metabolism Symposium Quiz #5 (10 points) <u>Symposium ppt presentation</u> of Metabolism Experiment (25 points)
November 7	Lab #8: Photosynthesis: Physical Properties of Pigments Quiz #6 (10 points) <u>assignment</u> : teams choose variable to test for Respiration Lab
November 14	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 21	THANKSGIVING HOLIDAY: NO LABS THIS WEEK
November 28	Lab #10: Photosynthesis Symposium Quiz #8 (10 points) <u>Symposium PowerPoint presentation</u> of Photosynthesis Experiment (25 points)
Finals Period	<u>SECOND LAB EXAM (100 points)</u> <u>including Post-Quiz (additional 30 points)</u>

Required Lab Manual:

Go Figure by Dana Krempels: www.bio.miami.edu/dana/151

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.

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Anything in the textbook, lab lecture, or additional readings assigned by your lab instructor is fair game for quizzes.

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, on your laptop, iPad, or whatever your choice of platform. The manual can be downloaded here:

www.bio.miami.edu/dana/151

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

Enzyme Experiment	25
Enzyme Symposium	25
Lab Exam I	100
Metabolism Experiment	25
Metabolism Symposium	25
Photosynthesis Experiment	25
Photosynthesis Symposium	25
Quizzes	80
Genetics Problems	15
Pre/Post Quiz change	30 (your final score PLUS the number of points improvement. Anything more than 30 points will be BONUS points)
Lab Exam II	100
Discretionary points	25
TOTAL	500

Note: The **Pre-Quiz** (first day) is worth 30 points. Your score on the **Post-Quiz** will be added to the difference between the Pre-Quiz and Post-Quiz scores to give you a final total. If that total is higher than 30, then those are BONUS points for you!

Late assignments are docked 2 points per day. Don't wait until the night before it's due 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

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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.