Week of:  | Lab Topic:
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August 26 | Lab #1: Scientific Investigation: An Introduction assignment: Literature search (due week of Sept 9)
September 1 | LABOR DAY HOLIDAY: NO LABS THIS WEEK
September 8 | Lab #2: Introduction to Project I, Data Collection Quiz #1 - 10 points Due: Literature search synopsis – 20 points Practice experiment participation/expertise: 15 points
September 15 | Lab #3: Project Planning: Enzymatic Reactions Quiz #2 - 10 points assignment: Research project experimental protocol due at end of lab. (30 pts)
September 22 | Lab #4: Data Collection: Enzymatic Reactions Quiz #3 - 10 points Experiment execution: 15 points
September 29 | Lab #5: Data Collection, Analysis: Enzymatic Reactions Quiz #4 - 10 points Experiment execution: 15 points assignment: Data collection and preliminary analysis in lab
October 6 | Lab #6: Data Analysis and Presentation Preparation Quiz #5 - 10 points assignment: All data analyzed and in graphic form by end of lab (25 points)
October 13 | FALL BREAK: NO LABS THIS WEEK
October 20 | Lab #7: Powerpoint Symposium: Enzymatic Reactions
October 27 | Lab #8: Introduction to Project II: Mechanisms of Mitosis assignment: Literature search (due week of November 4) (20 points) Quiz #6 (10 points)
November 3 | Lab #9: Project Planning: Mechanisms of Mitosis Quiz #7 (10 points) assignment: Research project experimental protocol due at end of lab. (30 pts)
November 10 | Lab #10: Data Collection: Mechanisms of Mitosis Quiz #8 (10 points) Experiment execution: 15 points
November 17 | Lab #11: Data Collection, Analysis: Mechanisms of Mitosis Experiment execution: 15 points Quiz #9 (10 points) assignment: Data collection and preliminary analysis in lab
November 24 | THANKSGIVING HOLIDAY: NO LABS THIS WEEK
December 1 | Lab #12: Data Analysis and Presentation Preparation Quiz #10 (10 points) assignment: All data analyzed and in graphic form by end of lab (25 points)
December 11-17 | Final Poster Symposium: Mechanisms of Mitosis

Lab Manual chapters linked to the syllabus at: [http://www.bio.miami.edu/dana/151](http://www.bio.miami.edu/dana/151)
LAB MANUAL
YOU MUST BRING YOUR LAB MANUAL WITH YOU TO THE FIRST LAB AND TO EVERY LAB, either in hard copy or on your electronic device. **It is strongly recommended that you always have a laptop, pad, or other electronic device with you in lab every week.** Required readings: Always read the lab manual chapter before coming to lab, and be prepared for a quiz on the material you have done and/or are about to do in lab. Appropriate readings from your lecture textbook should be considered required reading for laboratory prep.
The manual is linked to the syllabus here:
www.bio.miami.edu/dana/151

LAB SYMPOSIA: POWER POINTS AND POSTER PRESENTATIONS
For the two semester projects, research will be presented as either Power Point (Project #1) or a professional-style Poster (Project #2) by your team. Your Lab Instructor will explain the presentation format and grading assessments.

ATTENDANCE AND MAKE UPS
Attendance in laboratory is MANDATORY. **DO NOT MISS LABORATORY!**
If you miss a lab, you must notify your Lab Instructor 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 instructor. **Be forewarned:** You will not receive credit for a lab if you did not actually perform the experiment.

GRADING
**Part I – Enzymes and Enzymatic Reactions**
Catalase Literature Search synopsis 20 points
Catalase experimental design/protocol 30 points
Quizzes 50 points
Catalase research engagement & participation 45 points
Catalase figures and tables (Lab #6) 25 points
Catalase Powerpoint presentation 50 points
**Part II – Mechanisms of Mitosis**
Mitosis Literature Search synopsis 20 points
Mitosis experimental design 30 points
Quizzes 50 points
Mitosis research engagement & participation 30 points
Mitosis figures and tables (Lab #12) 25 points
Mitosis Powerpoint presentation 50 points
**Discretionary points** 25 available
**TOTAL** 450 points

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 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
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 be brought before the Honor Council for possible further penalties.