

BIOLOGY 163 LABORATORY FALL 2011 SCHEDULE

<u>Week of:</u>	<u>Exercises and Assignments:</u>
12-Sep	Skill Development: Use of the Compound Light Microscope Cell Diversity: Collection and Observation of Cells Skill Development: Laboratory Safety ‣ CELL ILLUSTRATIONS DUE AT END OF LAB
19-Sep	Molecular Interactions: The Effect of Antibiotics on the Growth of <i>E. coli</i> B ‣ WORKING WITH STATISTICS QUESTIONS DUE IN LAB ‣ LABORATORY SAFETY QUIZ IN LAB
26-Sep	Biosynthetic Pathways: Prodigiosin Production in <i>S. marcescens</i> (Part 1) Skill Development: Data Analysis and Presentation ‣ ANTIBIOTICS RESULTS (FIGURE ONLY) AND CONCLUSIONS DUE IN LAB ‣ DATA ANALYSIS AND PRESENTATION EXERCISE DUE AT END OF LAB
3-Oct	Biosynthetic Pathways: Prodigiosin Production in <i>S. marcescens</i> (Part 2) ‣ PRODIGIOSIN PATHWAY DUE AT END OF LAB
10-Oct	FALL BREAK--NO LAB
17-Oct	Cell Membranes: RBC Permeability to Different Solutes ‣ RBC RESULTS AND CONCLUSIONS DUE AT END OF LAB
24-Oct	Enzymes: Amylase Activity in <i>Hordeum</i> and <i>Mya</i> ‣ WRITING AND REVIEWING SCIENTIFIC PAPERS QUESTIONS DUE IN LAB
31-Oct	Skill Development: Use of the Micropipette DNA: Restriction Mapping of Plasmid DNA (Part 1) Cell Division: The Cell Cycle and Mitosis in <i>Allium</i> and <i>Coregonus</i> ‣ ENZYME PAPER DUE IN LAB
7-Nov	DNA: Restriction Mapping of Plasmid DNA (Part 2) ‣ PLASMID DNA RESTRICTION MAP DUE AT END OF LAB
14-Nov	Energy Production I: Respiration and Fermentation by Yeast
21-Nov	THANKSGIVING BREAK--NO LAB
28-Nov	Energy Production II: Light Reactions of Photosynthesis in Chloroplasts ‣ YEAST PAPER DUE IN LAB
5-Dec	Skill Development: Reading and Critiquing Primary Literature ‣ COMPLETE LITERATURE CRITIQUE EXERCISE PRIOR TO LAB ‣ PHOTOSYNTHESIS PRESENTATION DUE IN LAB