

## BIOLOGY 125 LABORATORY SYLLABUS - WINTER 2006

<u>Lab Week</u>	<u>Date</u>	<u>Exercise</u>
1	Jan 10-12	Primate Phylogenetics I: Morphological Characters
2	Jan 17-19	Primate Phylogenetics II: Amino Acid Sequences
3	Jan 24-26	Fundamental Techniques in Genetics
4	Jan 31-Feb 2	Gall Fly Evolution I: Protein Electrophoresis and Staining <i>Drosophila</i> Genetics I: Crossing Fruit Flies
5	Feb 7-9	Gall Fly Evolution II: Discussion
6	Feb 14-16	<i>Drosophila</i> Genetics II: Results of Crosses
7	Feb 21-23	Reconstructing the Evolution of Cauliflower and Broccoli
8	Feb 28-Mar 2	Recombinant DNA I: Bacteria Plating & Plasmid DNA Isolation
9	Mar 7-9	Recombinant DNA II: Gel Electrophoresis

### General Information

Laboratory sessions meet in Hulings 203 from 8:00 am-noon Tuesday, 1:00-5:00 pm Tuesday, 2:00-6:00 pm Wednesday, 8:00 am-noon Thursday, and 1:00-5:00 pm Thursday. Be on time as some of the experiments will take the full four hours. In addition, please read the laboratory manual before coming to lab (this will save you considerable time in lab). You should keep a laboratory notebook for recording observations and data; any type of notebook is acceptable.

The laboratory will count towards 25 % of your grade in the course. The format for each laboratory assignment will be explained at the appropriate time in your lab section.

<u>Assignment:</u>	<u>% of Lab Score</u>	<u>Due</u>
Library Assignment from Week 2	5%	23 Jan
Graph and Dilution Problems from Week 3	15%	3 Feb
Primary Literature Exercise	5%	7-9 Feb start of lab
Lab Report from Weeks 4 and 5		
Materials & Methods, Results	10 %	10 Feb
Intro & Discussion: individual TA meetings	5 %	21-26 Feb
Full report	25 %	6 Mar
<i>Drosophila</i> Genetics Assignment	15 %	17 Feb
Recombinant DNA Pre-Lab Assignment	5 %	28 Feb-2 Mar lab
Recombinant DNA Assignment from Weeks 8 & 9	15 %	7-9 Mar end of lab