

Biology 376

GENETICS LABORATORY SCHEDULE

August 30-9/2	Exercises 1 & 2:	Segregation into gametes; Human chromosome analysis
September 6-9	No lab this week	
13-16	Exercise 3:	Single factor cross
20-23	Exercises 4 & 5:	Meiosis in plants and animals
27-30	Exercise 6:	Two factor cross and epistasis exercises
October 4-7	Exercise 7:	Chi square
11-14	Exercise 8:	X-linkage and Barr bodies
18-21	Exercise 9:	Polytene chromosomes
25-28	Exercise 10:	Begin seed irradiation study
November 1-4	Exercise 11:	Eye pigment chromatography Complete seed irradiation study
November 8-11	Exercise 12:	Isolation of DNA
15-18	Exercise 13:	Restriction of DNA
29-12/2	Exercise 14:	Electrophoresis of restriction products (Note: Lab may run 2.5 hours)
December 6-9	Exercise 15:	Transformation of <u>E. coli</u>

This lab accompanies Bio 375. You must be concurrently enrolled in Bio 375 or have successfully completed Bio 355.

Attendance at all laboratory sessions is required. Each unexcused absence will reduce your final grade by 5%.

You will be issued a keycard which will give you access to 255 Padnos at any time. If you should lose your card, report the fact immediately to your lab instructor. This is necessary for lab and building security. Pay your lab instructor \$15.00 and you will be

issued a replacement card. If you do not return your card at the end of the course, you will lose 55 points from your lab grade total. This is approximately of half the total number of points for lab. Failure to return the card (or pay the \$15.00 replacement fee) will therefore result in a failing lab grade. If you withdraw before the end of the semester, you must also return your card.

Your lab grade will be based on a chi square quiz, a series of lab reports, our estimation of your technique and attitude, attendance, return of your keycard, and any other assignments which your lab instructor may give.