

Bio 2322:GENETICS LAB
SUMMER 2007, 1:00PM - 4.45PM

Instructor: Matt Spottswood
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 Office/hours: 12:00 pm-1:00 pm SB 3.02.36
 458-5156

Text Required:
Genetics Laboratory Investigations,
 12th edition by Mertens and Hammersmith;
 Copyright 2001, Prentice Hall.

Prerequisites: Bio 1103, 1112, Che 1103

DATE	TOPIC	CH.	PG.
June 4	An Overview of the Course	1	1-7
	Mendelian Genetics	2	11-14
	The Wonderful World of Fruit Flies		
June 6	Chromatin & Cell Division	5&6 10	51-58 89-93
June 11	Probability	3&4	19-39
June 13	Tetrad Analysis	12	143-150
June 18 EXAM I			
June 20	Diploid Mapping	11	123-130
June 25	Biosynthetic Pathways & Mutations	20 26&III	201-206 261-266
June 27	A Little Bit of DNA	15	153-158
July 2	Population Genetics & PCR	24	237-242 & handout
July 9 EXAM II			
July 11	Introduction to Molecular Biology & Bacterial Transformation		Session 1
July 12 LAST DAY TO DROP THE COURSE			
July 16	Plasmid Isolation & Analysis		Session 2&3
July 18	Southern Blotting		Session 4&5
July 23	<i>In situ</i> Hybridization		Session 6&7
July 25	Review		
July 30 EXAM III			
Aug 1	Special Projects Day		
Aug 6	Special Projects Day		

Rules of the Game

1. Unlike your previous lab experiences the Genetics lab will involve a number of experiments with cultured organisms that do not adhere to a 9 to 5 work week. **THEY GROW AT THEIR OWN RATE.** As such you will be required to do experimental procedures **OUTSIDE THE USUAL CLASS TIME.**
3. **You will NOT be able to make up an experiment, but you are responsible for all material covered and assignments given.** If you have to miss a class, find out before the next class what was covered and what is due to be turned in. Do not underestimate the importance of being at each and every lab.
4. **Issues of scholastic dishonesty will be treated in accordance to the *Handbook of Operating Procedures* of the University of Texas at San Antonio and Part I, Chapter VI, Sec. 3.22 of the *Rules and Regulations* of the Board of Regents of the University of Texas System.**
5. Lab reports will be due for all experiments on the next class day with the exception of the *Drosophila* Project. These will be **handwritten** in ink according to the form provided.
6. There will be three exams given. The subject matter for these exams will be derived from the instructor's lecture, your lab text, handouts and the interpretation of experimental data. Exams will not be cumulative.
7. Quizzes will be given. No make-up quizzes will be allowed. Your quiz average will be equivalent to one exam grade. Your lowest quiz grade will be dropped.
8. **Unexcused late homework will not be accepted...** so have a good excuse. Lab reports will not be taken late, **AT ALL.**
9. Grading scale: Usually 90-100=A, 80-89=B, 70-79=C, 60-69=D, below 60=F.
Grade distribution:

Exam1	15%
Exam2	15%
Exam3	15%
Quizzes	15%
<i>Drosophila</i> Project	10%
Homework	10%
Lab Reports	20%

10. The last two days will be for Special Projects consisting of oral presentations or experiments which will be done for extra credit.
11. Hold all graded work in the event a question arises regarding your grade.
12. According to UTSA regulations **we can't drop you; we can only grade you**, and if you earn an F you will receive an F. So keep the withdrawal date in mind, because only you can withdraw from the course should it be necessary.

Please discuss any problems and/or concerns with the genetics lab coordinator,
Matt Spottswood, SB 3.02.36, 458-5156