BI 311 GENETICS, Fall 2002, Tues. and Thurs. 3:00-4:20, Gilfillan Auditorium

Instructor: Michael Blouin
Cordley 5096, 737-2362, blouinm@bcc.orst.edu
Office hours: Wednesday 1:30-2:30 or other times by appointment (just call or e-mail first).

TA: Eric Hoffman

Text: Klug and Cummings.2002. Essentials of Genetics, 4th ed. Prentice Hall
Nickla. 2002. Student Handbook and Solutions Manual, 4th edition, Prentice Hall.

Week of	Topics	Readings
10/1	Quick review of background you need for this course; Begin Mendelian inheritance. Mendelian Inheritance	Ch. 1; also see refresher topics readings listed below Nickla p. 1-6 Ch. 3,4
10/8	Mendelian Inheritance cont'd	Ch. 3,4
10/15	Sex determination, X & Y linked inheritance Cytogenetics	Ch. 5 Ch. 7
10/22	Continuous traits (quantitative genetics)	Ch. 6
10/29	**Tues. 10/29: Midterm Exam 1** Linkage mapping	 Ch. 8, 141-156
11/5	Linkage mapping cont'd Mol. Biol. Techniques	 Ch. 16
11/12	Genomics/Biotechnology	Ch. 19
11/19	Population Genetics	Ch. 22
11/26	**Tues. 11/26 Midterm Exam 2** **Thurs. THANKSGIVING - no class**	 Relax! ☺
12/3	TBA	
12/11 Wed	**Final Exam, 6:00 PM Gilfillan Aud.**	

Grading:

Two midterms and a cumulative final. You get to drop the lowest midterm. Final grade will be calculated as:

Best midterm	50%
Cumulative final	50%

Nobody takes the final exam early. Plan your inter-session travel accordingly.

Final grades: A 90% B 80% C 70% D 60% F < 60%

Exam policies:

No make up exams. If you miss a midterm, that will be the one you drop.

Readings for class:

A large part of your mastery of course material must come from readings in the book. In class I will highlight the parts of each chapter I consider to be most important. You will be responsible for all material in readings except that material which I specifically exclude. Practicing the problems in the back of each chapter is essential, particularly for those topics that involve math. Use Nickla's study guide!

Background you must have for this course:

In this course I will assume you are already familiar with the following topics, which you should have mastered in the intro biology series. I will quickly review these topics the first week, but you might need to refresh your memory. Next to each topic below I list where you can read up on it. K&C refer to the sections in our textbook, Cam5 refers to the 5th edition of Campbell's introductory Biology text (used in our Bi211-213 series).

Refresher Topic	K&C	Cam5
protein structure and function	ch 13	ch 5: 68-76
DNA structure and replication	ch 10, 11	ch 5: 76-80 ch 16
transcription, translation, including genetic code	ch 12, 13	ch 17
mitosis and meiosis	ch 2	ch 12, 13

If this material is very unfamiliar to you and you do not have the time to re-learn it ASAP, then you do not have the necessary background to be successful in this course!

Misc. info:

Last day to drop is Oct. 11. Last day to withdraw from a course (W entered on transcript) or change to S/U grading is Nov. 15.

Students with disabilities

Students with disabilities documented by SSD and who may need accommodations, who have any emergency medical information the instructor should know of, or who need special arrangements in the event of evacuation, should make an appointment with the instructor as early as possible, no later than the first week of the term.

Student conduct:

1. What you should know about academic dishonesty:

Cheating includes using study materials during an exam, copying from another student, or using any other unauthorized aid to obtain the answer to a question. Submitting an altered exam for regrading is academic dishonesty. Given evidence of cheating, the instructor may impose any academic penalty including an "F" grade in the course. Further, the incident will be reported to the student's academic dean for possible disciplinary action, and a copy of the report will be filed by the Student Conduct Program. A second incident of academic dishonesty will automatically refer the student to the student conduct committee for a formal hearing, which will likely result in suspension from the University.

2. Expectations for civility and behavior in class:

Some basic courtesies I expect you to observe include arriving on time and not leaving or preparing to leave until lecture is finished. I also expect that students will not chat during lecture, as this behavior is particularly distracting to the teacher and to other students. Behavior that interferes with other student's ability to learn will not be tolerated. Remedies for serious problems include referral to the Student Conduct Program for disciplinary action and dismissal from class. Behaviors that create a hostile, offensive or intimidating environment based on group affiliation such as gender or race will be referred to the Affirmative Action Office.