

**Office-** N264**Email-** [jyoungblom@csustan.edu](mailto:jyoungblom@csustan.edu)**Office phone-** 667-3950**Office Hours-** Mon. and Wed. 2:00 – 3:30 or by appt.**Required Texts-** 1) Concepts of Genetics by Klug, Cummings, & Spencer 9<sup>th</sup>; Edition, 2008  
2) The Double Helix by James D. Watson (many different editions available)  
3) Time, Love, Memory by Jonathon Weiner, Vintage Books, 2000

Introductory Genetics is a required course for all biology majors. Ideally it is taken early in your junior year. This class attempts to present an overview of three branches of genetics: Mendelian genetics (also called classical or transmission genetics), Molecular genetics (DNA replication, transcription, and translation), and molecular biotechnology (gene cloning). Genetics is a subject now frequently in the news, and we will take the time to discuss some of the issues related to 21<sup>st</sup> century genetics. This class will usually consist of three 58 minute lectures each week. To do well you have to devote study time to this course each week- reading, reviewing your notes, and working problems. You won't do well if you wait until a couple of days before the exam to try to cram in all of the information.

I will accompany each lecture with PowerPoint lectures. These lectures are available for preview on BLACKBOARD (<http://blackboard.csustan.edu>). Each exam will be accompanied by a study guide that recommends readings from the lecture text and problems from the back of each chapter.

**Bonus points- 2 x 5 pts. = 10 pts.**

- 1) After exam #1 but before exam #2. Stop by my office (during office hours or at any other time) for at least 5 minutes to introduce yourself and discuss your progress in this class.
- 2) Attend Special Movie Presentation (in Naraghi Hall 334)- Monday May 9 at 5:45 p.m. or Tuesday May 10 at 7:30 a.m. Sign up in advance.

**Alternative Activities:**

Six designated Wednesdays will not have a traditional lecture. The lectures will only be available on Blackboard. They will have the usual PowerPoint Slides, but in addition will have a narration for each slide (voice-over). You have to download the PowerPoint lecture and watch and listen to the lecture on your own. You are responsible for the material. I recommend downloading these lectures in a campus computer lab. The files will be ~ 25-40 MB. Bring headphones to the lab so you can listen to the voiceover without disturbing others. If you want to save the file you need to bring your own flash-drive. On weeks in which the Wednesday lecture is only available on Blackboard, there will be two class activities in the lecture room. One is a short 5 pt. quiz from the PowerPoint Lecture that you downloaded, viewed and listened to. This quiz will be taken in class using remote control clickers. Students can earn up to 5 pts. (quiz ) on these 6 Wednesdays. Your lowest Wednesday score will be dropped and up to 25 pts. can be applied to your class grade. In addition to the quizzes on these six Wednesdays there will be another activity that may include a short film and

discussion, a guest speaker, or a lecture on a current topic related to genetics. These activities are not in the text book but will be include on the next exam (usually one short essay per Wed. activity).  
Wednesday activity days: Feb. 16, Mar. 2, Apr. 6, Apr. 13, May 4, May 11

### **Dates to Remember-**

Wed. Feb. 23- Last day to drop a course  
Spring Break- No classes, Mar. 21 - 25  
Thur. Mar. 31, - No classes, Cesar Chavez Day  
Fri. May 13, No afternoon classes, Warrior Day  
Wed. May 18- last day of classes

### **Exams/Quizzes**

Mon. Feb. 21- **Exam #1 (50 pts)**  
Fri. Mar. 18 - **Exam #2 (50 pts)**  
Fri. Apr. 1- **Quiz on The Double Helix (20 pts)**  
Friday, Apr. 22- **Exam #3 (50 pts)**  
Wed. May 25 at 11:15 - **Final Exam (100 pts)**

The **Quizzes on Time, Love, Memory**, will be given in 3 parts (10 pts. each), on Feb. 28 (M), Mar. 4 (F), and Mar. 9 (W). Quiz #1 covers part I of the book, quiz #2 covers part II of the book, and quiz #3 covers part III of the book.

Each exam will be a mixture of different types of questions (such as matching, true/false, multiple choice, problems, and short essay). Exams 1, 2, and 3 are not comprehensive. **No leaving** the classroom during exams. Student caught cheating are automatically awarded an F.

The exams will be based on lecture material, assigned reading in Concepts of Genetics, and the assigned problems at the end of each chapter. You are not required to hand in the assigned problems, but they will be helpful in studying for the exams. The answers to some problems are in the back of your textbook. The solution manual (contains the answers to all questions) is on reserve in the CSUS library. The final exam is comprehensive and will contain ~25 pts. from each of the four study guides.

**Make-up-** If you know you can not be in class on the day of an exam, please see me beforehand so we can discuss your situation. In some circumstances, I will allow a make-up exam. If something comes up unexpectedly on the day of an exam, please call me. If you a leave a message, leave a phone number and I will contact you to discuss your situation . Don't 'let it ride' and plan on discussing it with me later. If your situation warrants a make-up exam, then schedule your make-up exam ASAP. If I don't hear from you soon enough, you will get a 0

**Cheating-** Students caught cheating are automatically awarded an F. They are no longer allowed in class and a report is filed with the Dean of Student Affairs. All electronic devices (including

phones) & headphones must be kept in purses or backpacks during the exams and quizzes. No exceptions. You can use a real calculator and not the calculator function on a cell phone or PDA.

**Taping Policy-** Audiotaping of classes is permitted only with prior permission of the instructor; videotaping is not permitted under any circumstances. Authorized tapes are for the personal use of the student, and may not be distributed to others without the permission of the instructor.

**Guest Policy-** Guests are permitted in class but only with prior permission of the instructor.

**Grading-** I will utilize the +/- grading system; at the end of the term I will assign each student one of these grades- A, A-, B+, B, B-, C+, C, C-, D+, D, D-, or F. Students at or above 90% will be guaranteed an A- or higher, students at or above 80% will be guaranteed a B- or higher, students at or above 70% will be guaranteed a C- or higher, students at or above 60% will be guaranteed a D- or higher.

### **How to do well in this class-**

1. **COME TO CLASS-** take good notes, ask questions. Go over your notes, rewrite them, and think about them after each lecture.
2. Read the chapters accompanying each lecture (see the study guides). Ideally read them before they are discussed in class.
3. If material is unclear, come and see me in my office.
4. Work the problems at the end of each chapter (see the answer key at the CSUS library reserve desk).
5. Start early in the semester and stay on top of the material. Don't start studying the night before the exam.
6. Read "The Double Helix" by J.D. Watson.
7. Read "Time, Love, Memory" by J. Weiner.