Evergreen Valley College
Summer 2013
BIOL 061—Human Heredity
Section 201, Reg. ID 71110

Class Time: MTWTh 8:00-10:05
Class Location: S-160
Office Hours: MTWTh 10:15-10:45AM
and by appointment

Instructor: Alejandro Enriquez, M.S.
Office: Adjunct Office
Email: alejandro.enriquez@evc.edu
Phone: TBA

*** Please note: My office hours are the times I have set aside for you. Please come and see me during my office hours for extra help. I am here to support your success in this course.

Welcome!

Welcome to Human Heredity! I am your host, guide and entertainment, Professor Alejandro Enriquez. I hope to make this a fun and exciting course for every single person in this class! Please note, however, that there is a lot of material to cover and the summer is a compressed semester, so please come ready to work hard the entire class! I will be doing everything I can to make the material accessible for you but you will have to put in the time as well. Let's have some fun!

Course Description

Biology 61, Human Heredity, is designed to give the non-science major a meaningful exposure to the science of Genetics. Genetics is the most rapidly growing discipline of biology that promises to touch every one of our lives as well as greatly influence the destiny of humankind in the twenty first century. The course is designed to challenge students to master the basic principles of the science of genetics and also expose students to recent advances in genetics.

Student Learning Outcomes

When you've successfully completed this course, you will be able to:

1. Define basic biology/genetics concepts and terminology.
2. Recognize the importance of understanding human heredity for the health of oneself and the health of the family.
3. Research using the Internet to investigate human genetic disorders and to analyze the information available from the Human Genome Project.
4. Recognize genetic disorders and the modes of inheritance. Be able to predict the risks of inheritance of various genetic disorders.
5. Distinguish the cause and results of mutations as well as investigate the role of teratogens in birth defects.
6. Demonstrate the role and importance of genetic counselors.
7. Indicate the genetic tests available. Analyze the medical, psychological and legal consequences of taking these tests.
8. Investigate bioethics.
9. Describe recombinant DNA technology and demonstrate the many uses and products that have resulted from this area.

Required Texts and Materials

- Human Heredity, Principles and Issues, Cummings, 9th ed.
- You will also need to purchase a green scantron for each exams.

Grading Scale & Assignments

Assignment	Percentage	Notes
Quizzes	20%	1 per class, approximately 1% each, individual + group
Project	10%	Choose from several options TBA
Exams	45%	Three scheduled exams (expected 15% each), closed notes
Final Exam	25%	Cumulative, closed notes

F: <59% D: 59-67% D+: 68-69% C-: 70-71% C: 72-77% C+: 78-79%
B-: 80-81% B: 82-87% B+88-89% A-: 90-91% A: 92-100+%

Special Accommodations

If you have a learning or physical need that requires special accommodations in this class, please make an appointment with the Disabilities Support Program in room SC-120 and notify me during the first week of class. The DSP staff and I would like to work cooperatively to ensure your equal access to learning materials, supportive services, and appropriate accommodations as early in the semester as possible. For more information or to make a counseling appointment to request services, visit the Disabilities Support Program office in the Student Services Building, room SC-120 or call (408) 270-6447 Voice or (408) 238-8722 TDD.

Class Participation and Attendance Policy

Class participation ensures that you will be getting the most out of your educational investment. You have chosen to take this class, and along with that choice comes a responsibility to participate. During the first 15 minutes of class, a quiz will be administered which will serve as an attendance record. This quiz cannot be made up in any way, and required your attendance to complete. The quiz will also serve as a low-stakes preview of exam material and permit you to check your own progress in the course. Finally, it is a motivator for you to get out of bed in the morning, as not all students are gifted with the characteristic of being a "morning person".

The instructor will make every effort to keep the class entertaining and relatable, and will frequently call on students to participate in various ways. This is designed to increase student engagement and promote awareness and awakeness. Please do not take any such behaviors personally. The goal is to enhance your own learning process.

Academic Honesty

All students are expected to do their own work in this course in order to fairly earn whatever grade they earn. Academically dishonesy actions such as copying quiz or exam answers or plagiarizing portions of the project will not be tolerated. Such actions, if discovered, will result in appropriately harsh punishments including but not limited to receiving a zero on the assignment in question. A private discussion with the instructor and/or Dean of Math, Science and Engineering may also be called for depending on the severity or repetition of the offense. *Please*, earn your own grade!

Drop/Withdrawal Policy

Students are responsible for dropping their class. A student may drop the class by calling StaReg (408) 223-0300, using MyWeb.sjeccd.org, or in-person at the Office of Admissions and Records. This should be done no later than Monday, June 24 to avoid a Withdrawal notation, "W", on the student's permanent record. If a student drops the course after this date, the student will receive a Withdrawal notation, "W", on their permanent record. Students will no longer be able to drop the class after Monday, July 15.

Campus Safety

Offenses, accidents, and all emergencies that occur on campus should be reported to Campus Police at (408) 270-6468 or District.Police@sjeccd.org. Red emergency call-boxes are available at various locations to contact Campus Police. Emergency call-boxes are marked by blue signs and blue lights for easy visibility. For further Campus Safety information, please visit http://www.evc.edu/safety/emergency.htm.

Support Services on Campus

Please utilize the free tutoring and support services EVC has to offer. These support services will not only help you maintain consistent study habits but will also be crucial in determining your success in the class. It is important that you do not fall behind and seek help if you do not understand a particular math concept or need additional help.

Math and Science Resource Center (MSRC), AD-141

The Math and Science Resource Center (MSRC) in AD-141 provides tutoring services to all students taking math and science classes at EVC. All tutoring and resource services are offered free on a drop-in, open-lab basis to registered math and science classes at EVC. For more information, please call (408) 274-7900, x6883, or visit http://www.evc.edu/mse/math_center.htm.

Monday-Thursday **9:00 a.m.—6:00 p.m.**

Friday **9:00 a.m.—1:00 p.m.**

Campus Tutoring Center, LE-200

The Campus Tutoring Center offers free tutoring in multiple subject areas. EVC students are welcome to drop in, check the subject schedules, and receive help. No appointments are necessary. Subjects tutored include Accounting, English, ESL, History, Music, Economics, Psychology, Spanish, and Vietnamese. Small group workshops in reading, listening & speaking are also offered every semester. Call the Campus Tutoring Center at (408) 274-7900 x6802, or visit http://www.evc.edu/tutoring_center/.

Monday-Thursday **9:00 a.m.—6:00 p.m.**

Friday **9:00 a.m.—1:00 p.m.**

Finally, remember that I'm available to see you during office hours. Please come and see me whenever you have a concern about your grades, questions about the homework, or anything that is related to the class. Don't wait for a small problem or question to become a big one before you seek help. I am here to support your success in this course.

Important Dates to Remember

Monday, June 17	Summer semester begins
Wednesday, June 19	Last day to drop without registration fees.
Monday, June 24	Last day to drop without a "W" on Permanent Record.
Thursday, July 4	Independence Day – No School
Monday, July 15	Last day to drop a class and receive a "W."
Thursday, July 25	Final exam and last day of class
Monday, August 5	Grades available by calling 408.223.0300 or online at https://myweb.sjeccd.edu

Tentative Course Calendar

Week of:	Monday	Tuesday	Wednesday	Thursday
06/17/13	Introduction & Cells Ch. 1 & 2	Cells - Mitosis & Meiosis Ch. 2	Mendelian Genetics Ch. 3	Mendelian Variations & Pedigrees Ch. 3 & 4
06/24/23	X-Linked genes Ch. 4	**Exam #1** Ch. 1-4	Polygenes & Heritability Ch. 5	Chromosomes + Karyotyping Ch. 6
07/01/13	Development Ch. 7	DNA Replication Ch. 8	Transcription & Translation Ch. 9	Independence Day NO CLASS
07/08/13	Proteins Ch. 10	Mutation Ch. 11	**Exam #2** Ch. 5-10	Cancer & Viruses Ch. 12
07/15/13	Recombinant DNA Ch. 13	Biotechnology Ch. 14	Human Genome Ch. 15	Reproductive Technology Ch. 16
07/22/13	**Exam #3** Ch. 11-16	Genetics of Immune System Ch. 17	Project Presentations	**Final Exam** Ch. 1-17