



Evergreen Valley College
Spring 2014
BIOL 020—Human Biology
Section 201/202, Reg. ID 73463/73464

Lecture Time: MW 1:45PM-3:05PM
Lecture Location: S160
Morning Lab: Monday 10:00AM-1:05PM at S129
Office Hours: W 12:30-1:30PM
and by appointment**

Instructor: Alejandro Enriquez, M.S.
Email: alejandro.enriquez@evc.edu
Afternoon Lab: Monday 3:15PM-6:20PM at S129
Office: Adjunct Faculty Office
Phone: (510)566-9527 (*emergencies only*)

*** 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 also very responsive via email. I am here to support your success in this course, please help me do my job!

Welcome!

Welcome to Biology 20 at Evergreen Valley College! I am your host, your guide, and your entertainment for the semester! I see myself as the person whose job it is to make it as easy as possible for you to understand and remember everything there is to know about the basics of the human body. Please take note, however, that there is a *lot* of material here to learn! My job is to help you, but in order to be successful you will have to put in the time yourself as well! Let's have some fun!

Course Description

Biology 20 is a general education course that satisfies the general education laboratory science requirement. It is also transferable credit in the CSU and UC systems and given four units of credit. Human Biology will explore the organization, structure and function of the human organism and all the major body systems thereof. Biotechnology will also be explored, as will disorders of homeostasis including injury and disease.

From your background in biology, you will be asked to formulate conclusions, make inferences and construct a logical model to explain observed events. You will be asked to write coherently and at length on a particular subject that interests you and demonstrate your understanding of the course material in so doing.

Student Learning Outcomes

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

1. Use the basic principle of the scientific method to draw valid conclusions from data and examine concepts of human biology;
2. Integrate concepts of human anatomy and physiology at the cellular, tissue, organ, organ-system, and organismal levels;
3. Relate human body functions and requirements to the organs and organ systems responsible for those functions and requirements, and to the concept of homeostasis;
4. Examine the potential consequences and the bioethics of life decisions and biomedical testing based on a knowledge of human anatomy, physiology, heredity, and diseases;
5. Appraise the relatedness of humans based on our evolutionary history and evaluate current threats to the environment and human health resulting from human activities; and
6. Work safely in a laboratory environment.

Required Texts and Materials

- Human Biology: Concepts and Current Issues, Johnson, 7th ed.
- Laboratory Manual to accompany Human Biology, Johnson, 7th ed.
- You will also need to purchase a green scantron for each lecture exam.

Grading Scale & Assignments

| <u>Assignment</u> | <u>Percentage</u> | <u>Notes</u> |
|--------------------------|--------------------------|--|
| Lecture Quizzes | 10% | Quizzes will be both review (individual) and preview (group), lowest 3 dropped |
| Lab Participation/Quiz | 10% | Quizzes will be on current lab material, both individual and group component |
| Lecture Exams | 30% | Three scheduled exams (10% each) |
| Lab Practicals | 20% | Two scheduled exams (10% each) |
| Research Paper | 10% | Topic must be approved by week 2, paper & presentation due 4/7/14 |
| Lab Final Exam | 10% | Cumulative, closed notes |
| Lecture Final Exam | 10% | Cumulative, closed notes |

F: <59%

D: 59-69%

C: 70-79%

B: 80-89%

A: 90-100%

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 10 minutes of class, an individual quiz and a group 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 awakens. 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 dishonesty 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, February 10 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 Friday, April 24.

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 for your Learning

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.**

Online Tutoring

I also run a youtube channel specifically created to answer student questions and address confusion in various subjects, particularly the sciences. The website for the channel is <http://tutor.prionspace.net> and the channel also has a facebook page at <http://www.facebook.com/5MinLessons>

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

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|---------------------|---|
| Monday, Jan. 27 | Spring 2014 semester begins |
| Monday, Feb. 10 | Last day to drop without registration fees or W. |
| Monday, Feb. 17 | President's Day – Campus Closed |
| Week of April 14-18 | Spring Break & Cesar Chavez Day – Campus Closed |
| Thursday, Apr. 24 | Last day to drop without a “W” on Permanent Record. |
| Wednesday, May 21 | Final exam and last day of class |
| Monday, Jun. 9 | Grades available by calling 408.223.0300 or online at https://myweb.sjeccd.edu |

Tentative Course Calendar

| <u>Week of</u> | <u>Tuesday</u> | <u>Thursday</u> | <u>Lab Schedule</u> |
|-----------------------|--|---|--|
| 1/27/14 | Intro & Syllabus Chapter 1: Science | Chapter 1: Science Chapter 2: Chemistry (<i>brief intro</i>) | Introduction Scientific Method |
| 2/3/14 | Chapter 3: Cells | Chapter 3: Cells | Microscopes Cytology |
| 2/10/14 | Chapters 17: DNA | Chapter 17: Proteins | DNA Extraction Diffusion & Osmosis |
| 2/17/14 | PRESIDENT'S DAY No class | Chapter 4: Tissues | No Lab |
| 2/24/14 | Review Chapters 1-4 & 17 | Exam #1: Cell Biology | Mitosis/Meiosis Histology |
| 3/3/14 | Chapter 5: Bones | Chapter 5: Bones | Lab Practical #1 |
| 3/10/14 | Chapter 6: Muscles | Chapter 6: Muscles | Osteology I & II |
| 3/17/14 | Chapter 11: Nervous System | Chapter 11: Nervous System | Myology I & II |
| 3/24/14 | Chapter 12: Special Senses The Eye | Chapter 12: Special Senses The Ear | Neurology I & II Sheep Brain |
| 3/31/14 | Review Chapters 5-6 & 11-12 | Exam #2: Interaction Systems | Neurology III and Senses Review for Practical #2 |
| 4/7/14 | Chapter 7: Blood | Chapter 8: Heart | Lab Practical #2 Paper & Presentation Due |
| 4/14/14 | SPRING BREAK | MORE SPRING BREAK | PARTY WOO |
| 4/21/14 | Chapter 9: Immunology | Chapter 13: Endocrine System | Hematology, Cardiology Instructions for Nutrition Lab |
| 4/28/14 | Chapter 14: Digestion | Chapter 14: Nutrition | Immunology Endocrinology |
| 5/4/14 | Chapter 15: Renal System | Chapter 16: Reproduction | Digestive Anatomy Nutrition Lab Due |
| 5/12/14 | Review Chapters 7-9 & 13-16 | Exam #3: Blood 'n' Guts | Urology Genitalia & Reproduction |
| 5/19/14 | Review entire course | FINAL EXAM | Lab Final Exam |