

Biology 20 - Human Biology

Evergreen Valley College

Fall 2010 - Prof. Gene Dorsa

"GREEN SHEET / COURSE SYLLABUS"

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. Basic human anatomy: (structure) and physiology (function) including the following content areas:

metabolism, homeostasis, cellular metabolic processes, skeletal system, muscular system, nervous system, endocrine system, respiratory system, digestive system, circulatory system and the uro-genital system, genetics, diseases of the human, graphing, scientific processes, micro biological organisms, organization and levels of the formation of the human organism.

In addition, the student of Human Biology will be expected to recognize and identify the major structures (anatomy) and functions (physiology) and interaction of the above systems.

From your background in biology, you will be asked to formulate conclusions, make inferences and construct a logical model to explain the units--lab reports.

Texts:

**Human Biology, Concepts and Current Issues, Johnson (required)
5th Edition, ISBN – 0-321-57020-0**

Course Syllabus, Dorsa (Revision 1.1) (required)

Office hours:

**Room S108 – Adjunct Faculty Office OR S127
Monday / Wednesday - 3:30 – 4 p.m.**

Strongly recommended purchase:

1. Highlighter pen
2. Colored pencils
3. Flash cards (3 x 5)

EVC Philosophy:

Evergreen Valley College, built by the community, translates the instructional needs of that community into educational experiences available to all. It encourages students to develop their unique capacities as individuals in personal, academic, social, and occupational efforts. Everyone is responsible for learning - this is a community effort.

Evc Goals:

1. To provide a variety of learning experiences and the self-development necessary of individual students to reach their educational goals.
2. To organize and present a program of community services to citizens of all ages, which provide rewarding learning and enriching experiences.
3. To offer a variety of learning activities.
4. To provide an environment in which faculty and staff carry out their commitment to assist students.
5. To provide an environment for students and staff which fosters identity and individuality.
6. To provide counseling and guidance services which enable students to establish personal goals and academic achievement consistent with those goals.
7. To provide support services necessary for students to remain in college and achieve their educational goals.

Learning Objective - -Lecture:

- Organization and regulation of the body systems to keeping the internal environment constant (Homeostasis).
- Demonstrate basic understanding of the anatomy and physiology of the human body at the cellular, tissue, organ, and system levels.
- Develop a working vocabulary in the area of human biology
- Demonstrate an understanding of the major tissues, organs and organ systems found in the body.
- Develop a basic understanding of human diseases.

Learning Objective - -Laboratory

- Learn to work safely and effectively in a laboratory setting.
- Be able to work with simple laboratory equipment used to investigate the human body tissues, such as the microscope, surgical tools, bunsen burners, digital scale etc.
- Develop analytical skills required to Differentiate between invalid and valid conclusions based on collected data (Use the scientific method).
- be able to identify the major tissues, organs and organ systems found in the body. An understanding of the basics of the 'Metric and the Standard system of measurement.
- Understand the basic structure, basic chemistry, and function of cells including diffusion, osmosis, mitosis, and meiosis.
- Understand the physiology of the digestive system including digestion and elimination.
- Monitor and analyze basic energy requirements and intakes.
- Understand the physiology of the circulatory system including: blood pressure, heart rate, heart sounds, etc.
- Understand the physiology of the urogenital system including reproduction.
- Understand and describe blood typing

- Understand respiratory physiology including respiratory volumes.
- Understand and describe the results of a urinalysis.
- Understand the physiology of the nervous system (sensory, motor including reflex mechanisms).
- Study Mendelian genetics with emphasis on human heredity and genetic diseases. Discuss genetic testing, research, and bioethics.

Attendance

Students are expected to attend all lectures and laboratory sessions. Official attendance will be taken once a week in lecture via the JOHNSON chapter questions. In laboratory, attendance will be taken from the quiz taken each week and at laboratory practicums. **YOU MUST BE PRESENT IN LECTURE TO RECEIVE CREDIT FOR JOHNSON HOMEWORK.**

Research Paper (100 points)

Every truly academic course should require students researching and writing some form of semester paper. The student of Human Biology will be required to write a Research Paper on a selected topic. During the first week of laboratory we will cover the guidelines for the research paper.

The purpose of this assignment is to give the student the freedom to explore topics in biology that are not typically discussed due to the lack of time, instructor interest, and so on, As your instructor I will do my best in directing you to qualified biological resources and attempt to answer any of your scientific questions.

Course components:

- Lecture
 - laboratory
 - dissections
 - 2 lab practicum exams
 - one final comprehensive practicum
 - laser curriculum: daily basis and exams
 - biological drawings
 - weekly lab quizzes
 - 2 midterm examination
 - one comprehensive final examination
- one research paper on a human body condition / disease

Grading:

Your grade is based upon your total points earned and I weight your performance by category importance. It is very important that you turn in all work that is required.

Grading breakdown is as follows and will be posted with updates each week and always posted on my website – (<http://evc-cit.info/~dorsa>) take control of your progress!!

Grading scale:

90 - 100%	A RANGE
80 - 89%	B RANGE
70 - 79%	C RANGE
55 - 69 %	D RANGE

Grades by category weight

Lab quizzes	20%
Lab practicums	20%
Final practicum	10%
Midterms	20%
Final exam	10%
Research paper	10%
Class assignments	10%

Make-up exams:

**** Written exams and quizzes are very difficult to make up. If there is an emergency, please call me ahead of time if possible. Make up exams will be allowed only with a verified doctors excuse or from the office of dean of math and science.**

***** LAB PRACTICUMS ARE NOT ABLE TO BE MADE UP*****

Disqualification:

Disqualification will follow the rules outlined by the admissions office in the general information section of the schedule of classes. Disqualification will also occur with excessive tardies or absences determined by the instructor.

It is the responsibility of each student to initial the attendance form at each class meeting.

Academic dishonesty will not be tolerated and dealt with appropriately. If you're unsure whether your action violates the EVC Academic Honesty Policy please check with me before continuing.

Withdrawal from class:

See your class schedule for important drop and withdrawal dates. It will be the student's responsibility to complete the necessary paperwork for a drop or withdrawal at the office of admission and records with the official dates.

Academic regulations and classroom policies:

1. Cheating will not be tolerated.
2. No recording devices are allowed in class.
3. No visitors or children are allowed in class without prior permission from the dean of math and science.
4. Paging devices, cell phones etc to be turned off sound during class time – lab. or lecture. – Let's talk cell phones a bit.

Fall 2010 Dates

August 30 (Monday) FALL SESSION BEGINS

September 2 (Thursday) EVC Distance Education Program Orientation

September 4-5 No classes held

September 6 (Monday) Labor Day - campus closed

September 9 (Thursday) LAST DAY TO DROP fall session classes for a refund of eligible fees

September 11 (Saturday) Weekend classes begin

September 12 (Sunday) LAST DAY TO ADD via STAReg using Add codes for fall session classes

September 13 (Monday) Census Day

September 24 (Friday) LAST DAY TO DROP fall session classes without receiving a "W" on record

LAST DAY TO APPLY for a refund of enrollment fees if classes were dropped on or before September 9, 2010

LAST DAY TO SUBMIT Credit/No Credit forms to the Office of Admissions and Records

November 12 (Friday) Veteran's Day - campus closed

November 13-14 No classes held

November 19 (Friday) LAST DAY TO DROP fall session classes and receive a "W" on record

November 25-26 Thanksgiving Holiday – campus closed

November 27-28 No classes held

December 10 (Friday) English final exams – no regular DAY classes meet.

Friday evening classes will meet as scheduled.

December 16 (Thursday) FALL SESSION ENDS

January 10, 2011 (Monday) FALL SESSION 2010 grades available by calling STAReg 408.223.0300 or online at <https://MyWeb.sjeccd.edu>

Once again, Office hours:

**Room S108 – Adjunct Faculty Office OR S127
Monday / Wednesday 3:30 – 4 p.m.**

Let's have a great semester together!!!