

Biology 11- Human Biology

Fall 2005

Instructor: Krista M. Granieri

Office Hours: Tuesdays 2-3pm

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Lecture: Tuesday and Thursday 9:20-10:50am, room SM34

Lab: Tuesday or Thursday 10:55-2:05pm, room SM 24

This is a 4-unit introductory biology course for non-majors. The course includes ~3 hours per week of lecture and 3 lab hours per week. The course is designed to introduce the basic concepts of biology using human beings as the model organism. The course will begin with a basic introduction to scientific inquiry and the field of biology. We will spend the first part of the course studying the concepts that are key to understanding biology including the biochemical nature of heredity and how the genetic material that directs *our* conception and development has provided for continuity among all species since life began on Earth. In the second part of the course, we will study the structure and function of the human body focusing on those systems that model broader biological concepts.

Required Text:

HUMAN BIOLOGY: Concepts and Current Issues 2nd or 3rd Ed.
By Michael D. Johnson

Required Lab Manual:

Biology 11 Laboratory Manual: 4th Edition

Grading Protocol: Your grade will be based on the following:

Lecture:

Lecture Exams (3 @ 250pts)	750
Final Exam	350
Various Lecture Assignments	100
Lecture Total	1200

A = 90-100%
B = 80-89%
C = 65-79%
D = 55-64%
F < 54%

Lab:

Lab Assignments	150
Lab Participation	25
Lab Quizzes	225
Lab Total	400

You must pass both the lab and the final exam to pass the course!

Lecture:

Three Lecture Exams: (250pts each) The lecture exams may include any material covered in the lectures up to the lecture prior to the exam date. Exam material may also come from concepts covered during lab lectures as these are integral to the material learned in lecture. These exams will be multiple-choice and will require Scan-tron 882-E forms.

Comprehensive Final Exam: (350 pts) It will have two sections. The first half will contain material covered since the last in-class exam and the end of the semester. The second half will contain material covered throughout the course. It will be multiple-choice and will require a Scan-tron 882-E form.

Lecture Assignments: (100 pts) Various in-class assignments, which will help to encourage regular attendance and give you a means to think through some of the concepts that are raised in lecture. **You must be present to get credit for these assignments.**

Extra Credit: (NOTE: There will be no other extra credit or “make-up” projects.)

Perfect lab attendance- (20pts) Perfect lab attendance means no missed labs for ANY reason and no tardies. In order to get this extra credit you must attend YOUR lab section. Make-ups will not count.

Study Guides- up to 10pts each (40pts) Study Guides are optional but effective tools to help prepare for an exam. Students who follow the study guide and write down their answers tend to do better on exams than those who do not. Study guides that are written out on separate sheets are worth up to 10 points toward the exam. You may work on study guides together however, each student must turn in their own work (no photocopies or double computer printouts).

Jeopardy- up to 5pts each (20pts) In the week preceding each exam we will play “Jeopardy” in class and you will have an opportunity to earn extra credit by correctly responding to the clues.

Lab:

Weekly Quizzes: (15pts each) There will be a quiz each week in lab that will be completed at the beginning of the period— so don't be late. Quizzes will be based on material covered in the previous lab and may be multiple choice, diagrams or fill-in. The quizzes will require the Scan-tron “quizstrips” 882-ES. **NOTE: If you are late for lab and no one has finished the quiz yet, you may take it. If anyone has finished the quiz, then you are too late and will not be allowed to take the quiz.**

Pre- Laboratory Assignments: (3pts each) Each week you will be responsible for downloading, completing and turning in a short assignment that relates to the lab for that week. Pre-labs and quizzes will be due in-lab and cannot be made up if you miss the lab section. Pre-lab assignments are to be turned in at the START of each lab for points to be assigned.

Lab Reports: (7pts each) Each lab has an associated lab report that you will find in your lab manual (except #1 and #15, which I will hand out). During each lab, you will complete a laboratory assignment. I will check these off for completeness **before you leave** the lab, but you will retain them for study. Late labs (within one week of the lab) will earn half credit. Late labs will not be accepted if not turned in within a week. **You must be present to get credit for these assignments.**

Lab Participation: (25pts) Lab participation points are not earned, but can be lost. You will start out with 25pts. You can lose points by being late to lab (-3pts each tardy), not participating in group work, being disrespectful to others, not being ready to start lab, etc.

Class Information:

Important Dates

September 10 th	Last day to ADD a class
September 16 th	Last day to drop without a “W” (no refund)
November 18 th	Last day to drop with a “W”
December 15 th	9:40-11:40 Final Exam

Holidays

September 5 th	Labor Day: No classes
November 11 th	Veteran’s Holiday: No Classes
November 24-26 th	Thanksgiving Holiday: No Classes

Class Attendance Policy: Students are expected to attend lecture and laboratory periods regularly. I will not grade on attendance per se, but in-class assignments will be given and students who miss class will not be able to make them up. I cannot and will not demand that you attend every single lecture. However, I will do my best to encourage your attendance. WHY? It has been shown in study after study, that students who attend class regularly do better on tests and students who miss classes tend not to do as well. AND I WANT EVERYONE TO DO REALLY WELL IN THIS CLASS! To that end, I will give you the answers to every exam question in advance of the exam. All you have to do is come to lecture and write them down.

Drop Policy: Students are responsible for dropping a class and must fill out the appropriate paperwork by the above deadline to officially drop the course. I reserve the right to drop students who have missed 2 or more exams or have stopped attending class by the Nov. 19th deadline.

Special Needs: If you need special accommodations (for learning or physical disabilities), please see me after the first class so that I can make appropriate adjustments in the class to meet your needs. You may visit the Learning Disability Center if you have any questions.

Support Services: The counseling office offers a wide variety of support services to help you through your college career. Services such as tutoring, short reading and writing skills classes, financial aid, programs in educational transition and help for disabled students are offered for your benefit.

Cheating Policy: West-Valley College (and this instructor) has a strict no cheating policy. Students found cheating on class examinations, quizzes or homework may be expelled from this class.

Safety Issues: Though West Valley College is considered a very safe school being prepared in the event of an earthquake or other incident is always a good idea. The college recommends that you keep a small flashlight handy in the event of a power failure, as the rooms are extremely dark.

For emergencies please note the following numbers and locations:

Life threatening emergency – regular phone	911
Life threatening emergency – campus phone	9-911
Student Health Services on campus	2222
Safety escort services on campus	2092
Nearest accessible campus phone (SM division office)	2018
Nearest public phone (next to campus sign north of biology wing)	741-9008
Nearest fire alarm	Front of room
Nearest fire extinguisher	Front of room

In the event of an emergency that requires the evacuation of the room, exit the back doors of the room, proceed north along the east wall of the Biology wing towards the parking lot and meet at the campus map sign north of the Biology wing for roll call and further instructions.

Biology 11 Tentative Schedule

Week	Day/Date	Lecture Topic
1	T 8/30	Introduction: Characteristics of Life
	Th 9/1	Biochemistry: Biological Molecules
	LAB	Scientific Method, Measurement
2	T 9/6	Fascinating Lives of Cells: Cell Theory and Cell Types
	Th 9/8	Cells: Structure and Function of Organelles
	LAB	Microscopy: Learning to Use a Microscope
3	T 9/13	Membrane Transport: How Molecules Move and WHY?
	Th 9/15	Homeostasis
	LAB	Membrane Transport
4	T 9/20	Introduction to Tissues
	Th 9/22	EXAM I
	LAB	Cells & Tissues
5	T 9/27	Mitosis: Cell Division & Meiosis: Making Gametes
	Th 9/29	DNA Structure and Functions: Replication
	LAB	Cell Division
6	T 10/4	DNA Transcription and Translation: Protein Synthesis
	Th 10/6	Mendelian Genetics
	LAB	DNA Structure & Function
7	T 10/11	DNA Technologies: Biotech
	Th 10/13	Introduction to Organ Systems: Integumentary System
	LAB	Biotechnology

8	T 10/18	Cardiovascular System
	Th 10/20	EXAM II
	LAB	Genetic Inheritance
9	T 10/25	Respiratory System
	Th 10/27	Digestive System: Anatomy
	LAB	Cardiovascular & Respiratory Systems
10	T 11/1	Digestive System: Physiology
	Th 11/3	Nutrition
	LAB	Enzymes and Digestion
11	T 11/8	EXAM III
	Th 11/10	Musculoskeletal System
	LAB	Nutrition and Physical Fitness
12	T 11/15	Urinary System
	Th 11/17	Lymphatic & Immune Systems
	LAB	Excretion and Homeostasis
13	T 11/22	Nervous System
	Th 11/24	NO CLASSES
	LAB	Human Senses??
14	T 11/29	Male & Female Reproductive Systems
	Th 12/1	Sexually Transmitted Diseases
	LAB	Reproduction
15	T 12/6	Parasites & Pathologies
	Th 12/8	Final Review Session
	LAB	Human Anatomy
16	Th 12/15	FINAL EXAM 9:40-11:40 in SM34