

Biology 10- Introduction to Biology

Fall 2006

Instructor: Krista M. Granieri

Office Hours: Anytime by email OR by appt

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Lecture: Tuesday 6:00-9:00pm, room C104

Lab: Thursday 6:00-9:00pm, room C104

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. The course will begin with a basic introduction to scientific inquiry and the field of biology. The course is then divided into three major areas of focus: Cells and their structures and functions, Animal Physiology and Anatomy and finally, Ecology & Evolution of Organisms.

Required Text:

Inquiry into Life 10th or 11th ed.

By Sylvia Mader

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

Lecture:

Lecture Exams (3 @ 250pts)	750
Final Exam	300
Various Lecture Assignments	210
Lecture Total	1260

A = 90-100%
B = 80-89%
C = 67-79%
D = 55-66%
F < 54%

Lab:

Lab Assignments	120
Lab Participation	25
Lab Quizzes	195
Lab Total	340

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: (300 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.

On-Line Assignments: (210 pts) On-line assignments give you a chance to earn points while studying for the exams. The assignments are “quizzes” which can be accessed through the class webpage. They are written by your textbook publisher. Use your text to answer the questions and then submit the answers. After you take each “quiz” you will be able to email the results to me. You will get points for completing each chapter’s quiz.

Extra Credit:

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

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 Scantron “quizstrips” 882-ES (you can also use the regular 882-E). **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.**

Lab Assignments: (10pts each) Each lab has an associated lab report that you will find in your lab manual. 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 9 th	Last day to ADD a class
September 16 th	Last day to drop without a “W” (no refund)
November 21 th	Last day to drop with a “W”
December 19 th	6:00-9:00pm Final Exam

Holidays

September 4 th	Labor Day: No classes
November 10 th	Veteran’s Holiday: No Classes
November 23-25 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. 21st 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: Alameda 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.

Biology 10 Tentative Schedule

Wk	Day/Date	Text Ch.	Lecture Topic
1	T 8/29	1, 2	Introduction: Characteristics of Life Biochemistry: Biological Molecules
	Lab		1-Scientific Method, Hypothesis Testing
2	T 9/5	3	Fascinating Lives of Cells: Cell Theory and Cell Types Cells: Structure and Function of Organelles
	lab		1-Metric System
3	T 9/12	4	Membrane Transport: How Molecules Move and WHY?
		5	Cell Division: Mitosis
	Lab		2-Membrane Transport
4	T 9/19		EXAM I
	lab		3-Microscopy: Learning to Use a Microscope
5	T 9/26	6, 8, 9, 29	Metabolism: Photosynthesis Who Photosynthesizes? Plants and Microbes...
	lab		4-Biochemistry & Cell Division
6	T 10/3	7, 28	Metabolism: Cellular Respiration and other Catabolic Processes
	lab		5-Photosynthesis

7	T 10/10	11, 19	Introduction to Tissues & Organ Systems Musculoskeletal System
	lab		6-Fermentation
8	T 10/17		EXAM II
	lab	30, 31	7-Film: Animal Mechanics
9	T 10/24	21, 5	Male & Female Reproductive Systems Miosis: Making Gametes
	lab		8-Film: Embryonic Development
10	T 10/31	13, 12, 15	Lymphatic, Cardiovascular & Respiratory Systems
	lab		9-Cardiovascular System
11	T 11/7	17	Nervous System: <i>Human Senses</i>
		13	Immune System
	lab		10- Fetal Pig Dissection
12	T 11/14	14	Digestive System
	lab		10 Fetal Pig Dissection II
13	T 11/21		EXAM III
	lab		NO CLASSES
14	T 11/28	24	DNA Structure and Functions: Replication
	lab	25	DNA Transcription and Translation: Protein Synthesis 11-Gene Expression Exercise
15	T 12/5	23	Mendelian Genetics
	lab		12-Biotechnology: Film and Exercise
16	12/12	27	Evolution and Natural Selection
	12/14	33, 34	Populations & Ecosystems
17	Th 12/19		FINAL EXAM 6-9pm