

GENERAL BIOLOGY (II)

Spring 2012

Class Web: www.lavc.edu/huang

SECTIONS 8045 & 8046

OFFICE: AHS 223

OFFICE HOURS: MW 11:05 -12:50; T.TH: 2:35 – 3:30

EMAIL: HUANGSS@LAVC.EDU (Emails are not checked during evenings, weekends or holidays)

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Course Description

Welcome to Biology 7. This is a five unit course in general biology designed for students who are biology majors or pre-professionals. This course will focus primarily on evolution, biodiversity, form and function and ecology.

Prerequisite

Math 125 with a minimum “C “. You will be dropped from the class if you failed to meet this prerequisite by the end of the first week of school.

Required Texts

Lecture Text	<i>Biology</i> By Campbell and Reece 9 th A copy is reserved at AHS 232 Mastering Biology Access is required.
Lab Text	<i>General Biology Laboratory</i> by Huang (Download from class web site) <i>Photo Atlas for Biology</i> By James Perry and David Morton
Scantron®	One package of Form No. 882-ES Two package of Form 815-E Quizzstrip™
#2 Pencil	Several
Eraser	Several

Course Objectives

- a. Describe biological diversity utilizing appropriate taxonomy.
- b. Correlate the ecological aspects of biology with other populations including humans
- c. Identify anatomy and life cycles in selected Eukarya
- d. Develop/improve skills in scientific reading and writing, problem solving and critical thinking
- e. Develop comprehensive laboratory working skills.
- f. Define and conduct a scientific project.
- g. Explain evolution and illustrate evolutionary relationships of living organisms.
- h. Determine organismal phylogeny

Student Learning Outcomes

- a. Demonstrate a level of detail and sophistication of biological knowledge in various living organisms.

- b. Appraise detailed information concerning ecological aspects of biology and discuss the human impacts.
- c. Apply knowledge in animal and plant anatomy.
- d. Develop/improve skills in scientific reading and writing, problem solving and critical thinking.
- e. Develop comprehensive laboratory working skills.
- f. Define and conduct a scientific project.
- g. Explain evolution and illustrate evolutionary relationships of living organisms.

Exams and Quizzes

There will be five lecture exams, 120 points each. The format will be of short answers, essay, multiple choices, matching, labeling and true/false types. Questions will be drawn mainly from lecture notes. No exam is dropped. Each quiz contains twelve to fifteen questions. All quizzes are close book with the exception of noted ones. They could be multiple choice or short answer questions. Lecture notes and chapter study questions are posted on the class web site. Make up exam will only contain sixty multiple choice questions.

Labs

Lab work is completed by a group of 2-3 people. Each person shall actively get involved in the lab activities and submit the answer sheet independently at the end of each lab. No lab will be dropped. All lab quizzes are close book quizzes.

Final Grades

(1) Total Possible Points (Subject to change):

- 30 pts – Lab Quizzes
- 240 pts – Lab Answer Sheets
- 100 pts – Lab Midterm and Final
- 60 pts – Lecture Quizzes & Critical Thinking Exercises
- 30 pts - Presentation
- 600 pts - Lecture Test
- 1060 pts

(2) Final Grade = Total Pts Earned/ Total Possible Points

Symbol	Definition	Percentile	Grade Point
A	Excellent	> 90.00%	4
B	Good	80.00 – 89.99%	3
C	Satisfactory	70.00-79.99%	2
D	Less than satisfactory	55.00 – 69.99%	1
F	Failing	<60.00%	0
I	Incomplete	For emergencies and medical reasons	

The instructor of this class will not negotiate with you regarding your final grade at the end of the semester. Please remember instructors do not GIVE grades. Students EARN grades.

(3) **Marginal grades are not going to be bumped up automatically.** To bump up marginal grades take one extra credit quiz (1% of class total points).

Class Policies

- Preparation
 - Students need to read the scheduled chapter and lab before coming to class.
- Attendance
 - A major key to success in this class is good attendance. Students with excess absences usually do not do well in the class. **If you do not wish to attend the class anymore, please drop yourself, other wise you may get an “F”.**
- Make up and late assignment policies
 - There will be **NO make-up quizzes, lab exams or class discussion** given.
 - **Late assignments (15 minutes pass the beginning of the class) and reports would carry** a 15% deduction per day and 30% deduction per weekend. Late homework will not be accepted at all, if it is being returned.
 - Students miss lecture exams due to illness and emergency are required to present a written excuse. **All approved make up exams are going to be given on the last day of class. If you missed the makeup exam again, you need wait until spring 2013 to finish your makeup test. The makeup exam will contain 60 multiple choice or true/ false questions only. Test 5 can only be made up in spring 2013 during the final week.**
 - To make up the missed points (up to 20 points total), you can do the followings:
 - Habitat protection and restoration
 - Poster presentation
- Academic dishonesty
 - All students are expected to follow the Standards of Students Conduct as described in the Schedule of Classes and Catalog.
 - **Academic dishonesty** is a violation of Standards of Student Conduct and Disciplinary Action (code 9803.12). Cheating = copying word for word answers from any books, internet, fellow students, or fail to prevent cheating (e.g. not keeping your answers covered).
 - Group work is commonly conducted in this class. You are not permitted to put down your group member’s name if she or he did not make a contribution to your projects.
 - **Each individual needs to write lab answers in his or her words. Do not copy word for word from the lab manual, book or each other. Do not turn in identical answers.**
 - Anyone found to be cheating or plagiarizing will
 - receive a zero on the assignment,
 - be suspended for the remainder of school day

- and be reported to the Vice President of Student Services for further disciplinary action,
 - Disciplinary action filed against you may be placed in your student record permanently.
- Exam review policy
 - Exams are not returned to you. However you are encouraged to go over each test within two weeks after the test is taken.
- Use of electronic gadgets
 - Cell phone use is not allowed in classroom. Please turn off your cellular phone during the class.
- Checking Grades
 - Please check your grades periodically; save all returns in case of discrepancies. Your grades will be posted periodically on class web page or in class. You will be given a campus tree name. **Any request of correction shall be made within one week period after the grades are posted.**
- Reference letter
 - Reference letters will be given at the end of the semester only after the letter grade is issued. A request form shall be completed and submitted to the professor. The form is located at www.lavc.edu/huang.

Available Helps

- Professor's office hours
- Biology Free Tutoring and Resource Center (AHS 232): A schedule can be found in AHS 232. Answers to quizzes and lab exam slides are reserved with the Biology tutors. **You must have a Monarch card to enter AHS 232.**
- For study tips, please go to:
<http://www.cse.buffalo.edu/~rapaport/howtostudy.html#intro>
- Writing Center: humanities 100 Tel: (818) 947-2810
- Student With Disability Services: Student Services Annex, Room 175 or call SSD at (818) 947-2681 or TTD (818) 947-2680
 - Individualized diagnostic assessment
- The Text Book Online Exercises
- Early alert counseling service
- Financial Aid Office: (818) 947-2412

Important Dates

- February 21:
 - Students, who observe **religious holidays**, need to ask your religious leader provide the instructor a written list of observed holidays by 4 pm.
 - Students with **disability** shall inform DSS office and the instructor by 4 pm.
- February 20: Last day to add
- February 21: Last day to drop without incurring fee.
- March 4: Last day to drop classes without receiving a "W" in- person.
- May 4: Last day to drop with a "W" in-person.

Section 8046 Honors

- Additional requirement
 - Completion one Biology 185 class successfully with a minimum of letter grade “C” during spring 2012.
 - Or take a deduction of 50 points from your class total points.

Tentative Schedule (Subject to Change)

WEEK	DATE	LECTURE TOPIC	Chapter	LAB EX.
1	2/07	Introduction and Review of Cell Structure	1 & 6	Lecture continued Learning skill assessment
	2/09	A Darwinian View of Life	22	Review of cell reproduction Genetics Handouts (chapters 12-14)
2	2/14	Lecture Quiz 1	1 & 6	1. Scientific Method
		The Evolution of Population	23	
	2/16	Lecture Quiz 2	12-14 (notes only)	2. Microscope and Cell
		The Origin of Species	24	
3	2/21	The History of Life on Earth	25	3. Microevolution & Systematics
		Phylogeny and the Tree of Life	26	
	2/23	Lab Quiz 1	Labs 1 and 2	4. Prokaryotes
		Bacteria and Archea	27	
4	2/28	Test 1	22-26	5. Protists
	3/01	Protists	28	6. Seedless Plants
5	3/06	Lecture Quiz 3 Ch.28 Plant Diversity (I) (II)	29, 30	7. Seed plants Campus Tree Walk
	3/08	Lab Quiz 2 4- 6 Fungi An overview of animal diversity	31&32	8. Fungal Diversity
6	3/13	Test 2	Ch.27-31	9. Sponges, Cnidarians and Flat worm
	3/15	Malibu Field Trip (11:00 –12:30 pm) Meet at Malibu Lagoon State Beach at 11:00. 23200 Pacific Coast Highway Malibu, CA 90265		
7	3/20	Invertebrates (I)	33	10.Mollusca and Annelida
	3/22	Lab Quiz 3 7& 8 Invertebrates (II)	33	11. Nematods and Arthropods.
8	3/27	Lecture Quiz 3 Ch. 33 Chordates & Vertebrates Evolution of Animal Form and Function Open Book Quiz	34	12. Echinoderms and Chordates Chordate DVD
	3/29	Test 3	Ch.32-34 Evolution of Animal Form and Function	13. Animal Tissue and Organ
9	Spring Break			

WEEK	DATE	LECTURE TOPIC	Chapter	LAB EX.
10	4/10	Lab Midterm Mock Test		14. Pig dissection (I)
	4/12	Lab Midterm (Labs 9-13) 11:40 am -12:40 pm		
11	4/17	Plant Structure and Growth	35	15 Pig Dissection (II)
	4/19	Plant Transport	36	16. Plant Tissues and Organ
12	4/24	Lecture Quiz 4: Ch. 35-36 Plant Nutrients	37	17. Plant Leaf Structure and Reproduction
	4/26	Plant Reproduction	38	The Queen of Trees Video (10 Pts) 18. Animal Embryological Development
13	5/01	Plant Responses to Stimuli	39	Biome Work Sheet (7 pts) Web Evaluation
	5/03	Introduction to Ecology	52	Wild Life Habitat Field Trip (Woodland Hills 12: 05– 2:00)
14	5/08	Test 4	35-39	19. Ecology and Sepulveda Basin Field Trip
	5/10	Population Ecology	Ch. 53	PowerPoint Presentation (All or none marginal grade insurance part I)
15	5/15	Lab Final (Labs 14-19) 11:40 am-12:40 pm. Please Read Chapter 51 Behavior Biology on your own.		
	5/17	Lecture Quiz 5 Chapter 51 Community Ecology	Ch. 54	Marine Food Chain (6 pts) PowerPoint Presentation (All or none marginal grade insurance part II)
16	5/22	Lecture Quiz 6 Ch. 54 Ecosystem Ecology	Ch. 55	PowerPoint Presentation (All or none marginal grade insurance part III)
	5/24	Conservations	Ch. 56	Endangered Species DVD 12 pts (Make up exam:1:30 – 2:20)
17	5/29	Test 5 (9:30 am -10:55 am)	52-56	