

Biology 142 - Spring 2001

General Information:

Instructor:	Dr. Walter Escobar
Time:	BIOL 141 Sec 001 - MWF 9:35-10:25
Where:	Dental School (DS) 230
Required Texts:	Campbell, N., Reece, J., Mitchell, L.; "Biology", 5 th edition; Addison, Wesley, Longman, Inc.
Recommended Text:	The "Biology" Student Study Guide

Course Objective:

This course is intended to be a thorough introduction to the fields of population and organismal biology. Thus, we will cover the structure and evolution of organisms and their populations. As we did last semester, we will also study the science behind the facts. Although it is natural in this type of course to focus on the individual facts, it is just as important that you understand the big picture. By grasping the larger story you will enhance your retention and also gain a deeper understanding of the material – this will be stressed in class.

Contacts:

Lecture

Dr. Walter Escobar
Rollins 2013
727-7525
LearnLink address: Walter Escobar

Lab

Dr. Judith Morgan: Lab coordinator
Dental School 104
727-4237
LearnLink address: Judith G Morgan

Teaching Assistants

1) Lindsey Fischer

2) Laura Westerfield

Office Hours:

Wednesday 1- 4 PM and Thursday 9 AM -12 PM by appointment (sign-up sheet on the door - please sign 24 hrs in advance).

Grading:

I) **Tests:**

You will be given three midterm exams this semester, and a comprehensive final. Your grade will be calculated using the highest three exam scores (final included). Therefore, if you do extremely well on the first three exams you do not have to take the final.

You will also receive six quizzes throughout the semester. These quizzes will be given approximately every other week (see schedule) and the lowest score will be dropped. In other words, your grade will include the top five quiz scores.

No make-up exams will be given for any other reasons than those approved by the college office (serious illness). **Please take this seriously.** If you have a valid reason for not taking the exam you must get in touch with me before the exam. If you are ill, get a written verification from the dean and you will be given a make-up exam.

The test format will be a mixture of multiple-choice questions and short answer/short essay. We will be stressing applied questions throughout the semester.

If you do not think that your test was graded appropriately, you need to return your test along with a **valid** written explanation for the requested change. This must be done within five days from the date the test was returned to you.

All midterm tests will be given in the evening as described on the course schedule. Evening exams allow you more time to take the test (2 hours as opposed to 50 minutes) and decrease the stress due to time constraints.

II) The lecture portion of your grade will be based on your top three exams, top five quiz scores, and an optional report.

3 Midterms or Final:	300 points
Top 5 quizzes:	100 points
<u>Laboratory:</u>	<u>200 points</u>

Total **600 points**

What does it mean that the lab is worth 1/3 of your grade? If you do poorly in lab, you will severely decrease your overall grade in the class. If you do exceptionally well in the lab, you will greatly improve your overall grade in the class. There is no separation between the lab and lecture; together they make up Biology 142.

Your grade will be determined by the final number of points that you receive at the end of the semester. I can give you an idea of what letter grade your performance on an individual test corresponds to, but no true letter grade will be assigned to you until the end of the semester.

III) **Final Exam:**

The final exam will be given on:

Friday, May 4th 8:30 – 11:00 AM

Please make sure that your travel plans do not conflict with this date. Also, check to insure that this date is not in conflict with any other finals you may have.

IV) **Extra Credit Assignment**

You will be assigned extra reading assignments before each exam. I will have two extra credit questions on each exam that will relate to these readings. There will be a total of eight questions throughout the semester.

Reading for:

Exam I) "Once We Were Not Alone" by Ian Tattersall, Scientific American, Jan 2000 Vol. 282 Number 1 - Pg. 56

Exam II) <http://www.sciam.com/explorations/1999/090799mice/index.html>

Resources:

I) **Review sessions:**

Review sessions will be given both in and outside of class (see the schedule).

II) **Study sessions:**

Your TAs are a wonderful resource. Do not hesitate to ask for their help. Their job is to help you understand the material. Each TA will have a study session once a week to help you with any questions. Also, I have asked the TAs to prep the answers to the questions at the end of the chapters and they will go over these during their study sessions. You are free to attend any or all the sessions. Be considerate of your TA's - they are students with full loads too.

III) **Tutoring:**

Some people think there is a stigma associated with getting tutors, but then there were those that used to think the earth was flat. Tutors are a great way to get one on one coaching on any subject. If you feel you could use a little extra help, don't hesitate to get a tutor - it's free and the difference it makes will amaze you.

Contact: Ms. Donna Wong
Multicultural Center
Woodruff Dormitory
Room 348, Phone: 7.6754

IV) **LearnLink:**

I have created a conference titled “Biology 142” that we can all interact in. Within this larger conference I have created several smaller conferences that you will want to use.

Grades: This is a read only conference that will be used to post your grades. Grades will be sorted by student numbers so that you can access your grades quickly and at your convenience.

Chat room: This conference will be used as a means of communicating with each other. Post meeting times, ask each other questions, etc...

TA conferences: Each TA will have their own conference which can be used to communicate, ask questions, and set up meetings with your TA.

The Prof. Box: Any questions you may have for me can be placed here. I will check this box every day, so you should have your answer fairly soon.

The Question Mark: I will post practice questions in this box. These questions will help prepare you for the tests. The TAs will review these questions in their study sessions.

Bio. Announcements: Any special announcements will be posted here.

Bio. Lectures: I will post the text portion of my lectures for you to print out. Bring these to class so that you can avoid having to write down all the material and focus on the lecture.

These conferences will be public since we all have access to them. Please be considerate and use them appropriately. Anyone who abuses the system can have his/her privileges revoked at any time. “Abuse” includes (but is not limited to) the posting of obscene or abusive notes.

The Honor Code – Know it, Live it!

Article 2: Honor Pledge and Obligation

- A. A student's signature on a paper or test submitted for credit shall indicate he or she has neither given nor received unauthorized information on the work, nor has condoned the giving or receiving of unauthorized information by others.
- B. Each student at Emory University agrees to abide by the honor pledge and takes upon himself or herself the responsibility of upholding the Honor Code. Each student is urged to inquire of the Honor council about any doubtful case at any time throughout the year.

Biology 142 Course Schedule – Spring 2001

<u>Lecture</u>	<u>Date</u>	<u>Topic</u>	<u>Reading</u>	
1	1/17	Intro		
2	1/19	Population Genetics	Ch. 23	
3	1/22	Hardy-Weinberg		
4	1/24	Microevolution		
5	1/26	Microevolution, Speciation	Ch. 24	
6	1/29	Speciation		
7	1/31	Phylogeny and Macroevolution	Ch. 25	(Quiz 1)
8	2/1	Plant Evolution and Diversity	Ch. 29	
9	2/5	Plant Evolution II	Ch. 30	
10	2/7	Plant Nutrition	Ch. 37	
11	2/9	Plant Transport	Ch. 36	
	2/12	Review/Catch-up	(+DS 308, 7-9 PM)	
	2/13	EXAM I	AP 130 7-9 PM	
12	2/14	Flower Anatomy, Pollination	Ch. 38: p730-741	
13	2/16	Embryogenesis		
14	2/19	Plant Hormones	Ch. 39: p751-760)	
15	2/21	Animal Evolution & Diversity/Nutrition	Ch. 33	(Quiz 2)
16	2/23	Digestive Systems	Ch. 41	
17	2/26	Digestion II		
18	2/28	Circulatory Systems	Ch. 42	
19	3/2	Circulatory Systems		
20	3/5	Respiratory Systems		
21	3/7	Respiratory Systems		(Quiz 3)
22	3/9	Muscles	Ch. 49 p1014-1020	
23	3/19	Muscles		
24	3/21	Nervous Systems	Ch. 48	
25	3/23	Neurology II		
	3/26	Review/Catch-up	(+DS 308, 7-9 PM)	
	3/27	EXAM II	DS 230, 7-9 PM	
26	3/28	Endocrine System	Ch. 45	
27	3/30	Endocrinology II		
28	4/2	Primitive Excretory Methods	Ch. 44 p 873-890	(Quiz 4)
29	4/4	Advanced Excretory Systems		
30	4/6	Asexual and sexual Reproduction	Ch. 46	
31	4/9	Advanced Sexual Reproduction		
32	4/11	Immune System	Ch. 43	
33	4/13	Immunology II		
34	4/16	Population Ecology	Ch. 52	(Quiz 5)
35	4/18	Community Ecology	Ch. 53	
36	4/20	Community and Ecosystem Ecology	Ch 54	
	4/23	Review/Catch-up	(+DS 308, 7-9 PM)	
	4/24	EXAM III	DS 230, 7-9 PM	
37	4/25	Animal Behavior	Ch. 51	
38	4/27	Animal Behavior		
	4/30	Review/Catch-up		(Quiz 6)