

**Biological Sciences 160
Foundations of Biology II
Spring 2003 (03-2)**

Instructor: Laurel Roberts, Ph.D.
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Lectures: Monday, Wednesday and Friday
Noon – 1:50
L9 Clapp Hall

Recitations: Tuesday: 8:00 221 Langley
9:00 224 Langley
12:00 169 Crawford
1:00 169 Crawford

Office Hours:
And by appointment
Unless otherwise noted, office hours will be held at
the Bio-Help Desk in the Great Hall of the Cathedral of Learning

Text: Biology, Campbell, Reece and Mitchell, Fifth edition,
Benjamin Cummings Publishers.

Website: <http://courseweb.pitt.edu>
This site contains copies of the syllabus and course schedules. In
addition, practice exams, study guides, exam keys and recitation
assignments will also be posted as necessary.

Course Objectives: The goal of this course is to provide students with an understanding of the major organizing principle of Biology: Evolution. We will begin by exploring the mechanisms of evolution (Genetics) and then the conceptual background of Evolution. The final unit of the course will apply evolutionary theory to the study of Ecology.

Recitations: Recitations are designed as a supplement to lecture. Approximately 10 - 15% of the material on each hourly exam will come from material and/or exercises covered in recitation. Students are welcome to attend any or all of the sessions offered, registration is not required. Prior to each hourly exam, the recitation will include an "Exam Review" for these, the session topic will be determined by student questions and requests.

EXAMS: Three (3) hourly exams and a comprehensive final. Each exam is comprised of 50 multiple-choice questions and is worth 25% of the total points.

You must bring your student ID card and a (No. 2-type) pencil with you to all exams. Your ID will be checked when you hand in your answer sheet.

Missed Exams: There will be NO MAKE-UP EXAMINATIONS! If you miss a mid-term examination due to an EXCUSED emergency absence, your final grade will be based on the total points earned on the other midterms and the final exam.

In order to be granted an excused absence you must submit, in writing, your request with the following information:

1. Your written request for an excused absence MUST indicate your name, the nature of the emergency, and the date of the examination that you missed.
2. Your request must be detailed, typed and signed by you. The request must be given directly to Dr. Roberts NO LATER THAN ONE (1) WEEK after the missed exam.
3. If you miss an exam due to a medical condition, you must include documentation. At the minimum, you must submit a signed letter from your physician.
4. If you miss an exam due to a death in your immediate family, your excuse must include a copy of the obituary and a signed letter (with a phone number) of a family member who can verify your relationship to the deceased.

Failure to comply with these guidelines could result in a zero (0) for the missed exam. No one will be excused from more than one exam. Should you miss more than one exam, you should discuss the options available to you with your advisor or the CAS Dean's Office. There are no excused absences from the final (See "**G Grades**" below).

Special Needs: If you have any special needs related to learning or evaluation in this course, please contact the Office of Disability Resources and Services (216 WPU; 648-7890) so that accommodations can be made.

Academic Integrity: Students in this course will be expected to comply with the University of Pittsburgh's Policy on Academic Integrity: Student Obligations. Any student suspected of violating this obligation, for any reason, during the semester will be required to participate in the program set forth in the University Guidelines on Academic Integrity. This may include, but is not limited to, the confiscation of the examination of any individual suspected of violating University policy. Furthermore, no student may bring unauthorized materials to an examination, such as dictionaries or a programmable calculator with stored information specific to the material covered in this course.

Grading: Each exam will be worth 50 points. Final grades will be determined by a curve based on the class means of each exam. The procedure is as follows:

After the final exam, the individual scores for all four tests will be pooled and an average score computed (this is the final class average). Points will then be added or subtracted to the class average to set it to 75%. Then the average of each student will be adjusted accordingly and her/his final grade will be determined according to the grading scale below.

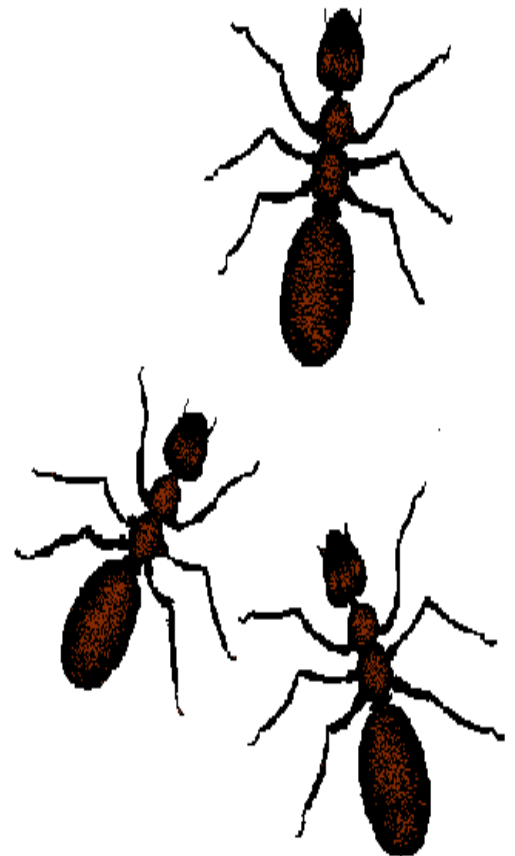
It is impossible to predict exactly what letter grade a student will earn until the curve has been calculated. Therefore, the best way to chart one's progress in the course is to

determine how close one's score on each exam is the class mean for that exam. Students scoring consistently above the mean are certain to earn at least a "C".

Final Percentage (with curve)	Grade
97.5% OR more	A ⁺
92.5--97.4	A
90.0--92.4	A ⁻
87.5--89.9	B ⁺
82.5--87.4	B
80.0--82.4	B ⁻
77.5--79.9	C ⁺
72.5--77.4	C
70.0--72.4	C ⁻
67.5--69.9	D ⁺
62.5--67.4	D
60.0--62.4	D ⁻
59.9 and below	F

G Grades: Students who wish to petition for a G grade must submit, in writing, a specific request for this grade change and you must document your reason(s). You will be required to make arrangements in person, with the instructor, for the specific tasks you must complete to remove the G grade. Remember that G grades, according to CAS guidelines, are to be given only when students who have been attending a course and have been making regular progress are prevented by circumstances beyond their control from completing the course after it is too late to withdraw (University of Pittsburgh Undergraduate Bulletin, 1999-2002, p.29). If you miss the final and have a valid excuse, you may receive a G grade, but only after the excuse is documented and arrangements to finish the course work are finalized with the instructor.

THERE ARE NO OPPORTUNITIES TO EARN EXTRA CREDIT



Bio 160 03-2 Lecture Schedule

Week of:	Monday	Wednesday	Friday
1/6/03	Intro/ Ch. 12: The Cell Cycle	Ch. 13: Meiosis	Ch. 14: Mendel
1/13	Ch. 14: Mendel	Ch. 15: The Chromosomal Basis of Inheritance	Ch. 15: The Chromosomal Basis of Inheritance ADD/DROP ENDS
1/20	Martin Luther King Day (OFF)	Ch. 16: The Molecular Basis of Inheritance	Ch. 17: From Gene to Protein
1/27	Ch. 18: Microbial Models	Ch. 18: Microbial Models	Ch. 19: Organization and Control of Eukaryotic Genomes
2/3	EXAM 1 (Ch. 12-18)	Ch. 20: DNA Technology	Ch. 38: Plant Reproduction (Selected pages)
2/10	Ch. 46: Animal Reproduction	Ch. 46: Animal Reproduction	Ch. 47: Animal Development
2/17	Ch. 21: The Genetic Basis of Development	Ch. 22: Descent with Modification	Ch. 23: Evolution of Populations
2/24	Ch. 23: Evolution of Populations	EXAM 2 (Ch. 38, 46, 47, 19-23)	Ch. 24: The Origin of Species
3/3	SPRING	BREAK	
3/10	Ch. 25: Tracing Phylogeny	Ch. 25: Tracing Phylogeny Last day to withdraw	Guest Lecture: Dr. Zhe-Xi Luo
3/17	Ch. 26: Early Earth and The Origin of Life	Ch. 50: Ecology	Ch. 50: Ecology
3/24	Ch. 51: Behavioral Biology	Ch. 51: Behavioral Biology	Ch. 52: Population Ecology
3/31	Ch. 52: Population Ecology	Ch. 53: Community Ecology	Guest Lecture: George Reese
4/7	Ch. 53: Community Ecology	EXAM 3 (Ch. 24 - 26, 50 - 53)	Ch. 54: Ecosystems
4/14	Ch. 54: Ecosystems (Selected pages Ch. 55)	Review	OFF
FINAL	SATURDAY 4/26	2:00 – 3:50	L-9 Clapp

<u>Date</u>	<u>Topic</u>
January	
7	In-class assignment: Mitosis/Meiosis
14	Handout #1: Genetics problem sets
21	Handout #2: Genetics problem sets
28	Exam Review
February	
4	OFF
11	Handout #3: Evolution
18	Handout #4: Evolution
25	Exam Review
March	
4	SPRING BREAK
11	In-class Assignment: Evolution
18	Handout # 5: Biomes
25	Handout #6: Behavioral Ecology
April	
1	Handout # 7: Ecology
8	Exam Review
15	OFF