

FOUNDATIONS OF BIOLOGY 2

BIOSC 0160

Instructor: Dr. Jacalyn Newman

Office: Langley Hall A252 (right over the loading dock)

Office Hours: Tuesday 11:00 AM—1:00 PM

Wednesday 2:00—4:00 PM BioHelp help desk in the Cathedral of Learning
or by appointment

Phone: 412-648-7654

Email: jsnewman@pitt.edu

Email: My Pitt email is set up to forward all messages to my home email address, permitting me to reply to you on evenings and weekends. Please do NOT use my home email address to reply to messages or send new messages. If you use my earthlink address, your reply will go ONLY to my home computer and will not be available to me in my office here at the university.

Office Hours: I have an open door policy, meaning that if I am in my office, you are welcome to stop by. If I am unable to give you my full attention at that time, I will tell you and we will arrange another time to meet. My office hours are when I have *dedicated* times when I will be present and available, likewise for my hours at the BioHelp desk. There is a mailbox on my door, as well as a supply of note paper. You are welcome to leave me a note if I am not present.

*Teachers open the door, but you must enter by yourself.
-Chinese proverb*

Lectures: All students

Monday and Wednesday 6:00 PM -- 7:20 PM Clapp Hall, L9

Recitations: (Each student must register for one of the three recitations.)

#1 Monday	7:30 PM—8:20 PM	Clapp L9
#2 Tuesday	2:00 PM—2:50 PM	Langley A220
#3 Tuesday	3:00 PM—3:50 PM	Langley A221

Text: *Biology*, Campbell, Reece Mitchell, 6th Edition, Pearson Education, Inc. (required)
The companion study guide is strongly recommended and available at the student bookstore

SI Leader: Catie Flanley
cinderella3553@aol.com

Course Description: The goal of this course is to provide students with an understanding of genetics, evolution, ecology and behavior. As each of these area of biology are discussed, three major themes will be emphasized: 1. The continuity of life is based on heritable information in the form of DNA. 2. Diversity and unity are the dual faces of life on Earth 3. Evolution is the major unifying and organizing principle of biology.

Lecture: Two 80-minute sessions per week. It is expected that you will read the assigned chapters *before* each period as well as study the material after it has been discussed in class. A 2-3 minute

break will be provided during the lecture period, but students must remain in the classroom. Failure to comply will result in this break being eliminated from the schedule.

Recitations: Once weekly for 50 minutes. Recitations will review lecture material, as well as introduce information not covered in lecture. Between 10 -15% of the questions on exams will come from material covered only in recitation. Attendance may be taken on a random basis.

Nametags: Nametags have been provided and will be available in the front of the room before each lecture and recitation. They are to be worn during class and returned to Dr. Newman after each period. Replacement nametags are not available from Dr. Newman and will be your responsibility to acquire.

Websites:

1. Campbell biology-sponsored website. <http://www.coursecompass.com> This site contains the entire textbook online, if you use the login from the front cover of your Biology 6th edition textbook. You'll also need the course ID: NEWMAN24334
2. Pitt's Courseweb site: <http://courseweb.pitt.edu>

Neither website will be used to post lecture notes! What will be posted are word files of the handouts that are occasionally distributed in class.

Exams: Three (3) 50 minute exams and a comprehensive final (2 hours), each worth 25% of the total points. Each exam is comprised of 50 multiple-choice questions. **You are required to bring your student ID card and a No. 2 pencil to all examinations.** There are copies of Foundations of Biology 1 exams on reserve in Langley Library as reference of my testing style.

**NO EARLY EXAMS
NO LATE EXAMS
NO MAKE-UP EXAMS
NO EXCEPTIONS!**

MISSED EXAMS: 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 two midterms and the final exam. Allowable absences include: serious illness, injury to you or an immediate family member, or a death in the family. In such cases you must submit a "Request for an Excused Absence" which includes both of the following:

1. A letter written by you explaining the circumstances.
2. Corroborating evidence such as:
 - A receipt from Student Health or your doctor that states that you were unable to attend class on the date in question.
 - In case of injury to a family member, a note from the attending physician that includes your relationship to the patient will be required.
 - In case of death of a family member, a copy of the obituary (preferably mentioning you) and a note from a family member confirming your relationship to the deceased.

All supportive evidence **MUST** include a phone number for verification and must also reach me **NO LATER THAN SEVEN DAYS** after the exam.

There are no excused absences for final exams.

G Grades: Students who wish to petition for a G grade must submit to Dr. Newman, in writing, a specific request for this grade change and documentation for your reason(s). You will be required to make arrangements in person for the specific tasks you must complete to remove the G grade. You will be expected to sign documentation that will include the date by which work must be completed. Failure to complete work by the date specified could result in a zero recorded for the missed exam and your final grade will be calculated based on this score. 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. 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 Dr. Newman.

Grading: Your final grade will be based on the points earned on the three mid-term examinations and on the comprehensive final examination.

Exam 1	50 pts
Exam 2	50 pts
Exam 3	50 pts
<u>Cumulative Final</u>	<u>50 pts</u>
Total	200 points

Final letter grades will be determined from the cumulative scores of all examinations. 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, individual scores for the entire class for all four exams will be pooled an average score computed to generate the final class average. Points will then be added or subtracted from this class average to set it to 75% of the points possible (150 points). The average of each student will be adjusted accordingly.

For example: If the class average is 100 points, which is 50 points below the 150 points explained above, then 50 points are added to each student's point total. If the actual class average were to be 170 points, 20 more than the 150 points explained above, then 20 points are subtracted from each student's point total. All grades are assigned based on the points earned on each exam. There are no bonus points or extra credit points available..

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 is to the class mean for each exam. *Students scoring consistently above the mean are certain to obtain at least a C.* Grades and grading curves are **not** available by phone or email.

Final grades will be determined according to the grading scale below.

Final percentage:	Grade
≥97.5%	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 ← Lowest acceptable grade for course to count as part of Bio major.
70.0 – 72.4%	C-
67.5 – 69.9%	D+
62.5 – 67.4%	D
60.0 – 62.4%	D-
≤59.9%	F

Ethics: Students in this course are expected to comply with the *Integrity: 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 procedural process, initiated at the instructor level, as outlined 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 any unauthorized materials to an examination, including dictionaries and programmable calculators.

Disabilities: If you have a disability that requires special testing accommodations or other classroom modifications, you need to notify both the instructor and the Office of Disability Resources and Services. You may be asked to provide documentation of your disability to determine the appropriateness of accommodations. To notify Disability Resources and Services, call 648-7890 (voice or TDD) to schedule an appointment. The office is located in 216 William Pitt Union.

Note: If you are will be taking your exams at the Office of Disability Resources and Services, the supporting letter of documentation must be provided to Dr. Newman at least one week prior to the scheduled date of the examination.

Overview of Topics & Lecture Schedule -subject to revision as the term progresses. You will be notified of any changes. Please note the dates and times of the exams to avoid any scheduling conflicts. **Exams cannot be rescheduled!**

Week	Date	Topic	Chapter Assignment
1	1/6/02	Introduction, The Cell Cycle	12
	1/8/02	The Cell Cycle continued, Meiosis and Sexual Life Cycles	12, 13
2	1/13/02	Mendel and the Gene Idea	14
	1/15/02	The Chromosomal Basis of Inheritance Add/Drop ends Jan 17th	15
3	1/20/02	The Molecular Basis of Inheritance	16
	1/22/02	From Gene to Protein	17
4	1/27/02	Finish Genes to Protein (continued)	17
	1/29/02	Midterm Exam 1	
5	2/3/02	The Genetics of Viruses and Bacteria	18
	2/5/02	Organization and Control of Eukaryotic genomes	19
6	2/10/02	DNA Technology and genomics	20
	2/12/02	Plant Reproduction (selected pages)	38
7	2/17/02	Animal Reproduction	46
	2/19/02	Animal Development	47
8	2/24/02	Animal Development continued	47
	2/26/02	Midterm Exam 2	
3/3/02-3/7/02 Spring Break No classes			
9	3/10/02	Descent with Modification: A Darwinian View of Life	22
	3/12/02	The Evolution of Populations Last day to withdraw	23
10	3/17/02	The Origin of Species	24
	3/19/02	Phylogeny and Systematics	25
11	3/24/02	Early Earth and The Origin of Life	26
	3/26/02	An Introduction to Ecology: Distribution and Adaptations of Organisms	50
12	3/31/02	Behavioral Biology	51
	4/2/02	Midterm Exam 3	
13	4/7/02	Population Ecology	52
	4/9/02	Community Ecology	53
14	4/14/02	Community Ecology (continued) & Ecosystems	53, 54
	4/16/02	Ecosystems (continued) and Conservation biology	54, 55
15	4/21/02	Conservation biology (continued)	55
	4/23/02	Cumulative Final Exam: Wednesday, April 23, 2002 6-8 PM	

Recitation Schedule:

Week	Date:	Topic:	Related Chapters
1	1/6 & 1/7	Note taking and study skills	
2	1/13 & 1/14	Cells and the Cell Division	12, 13
3	1/20 & 1/21	Mendel, Chromosomes	14, 15
4	1/27 & 1/28	Inheritance, transcription, translation	16, 17
5	2/3 & 2/4	The Genetics of Viruses and Bacteria, Organization and Control of Eukaryotic genomes	
6	2/10 & 2/10	DNA Technology and genomics & Plant Reproduction	
7	2/17 & 2/18	Animal Reproduction & Development	46, 47
8	2/24 & 2/25	Animal Development, review	47
3/3/02-3/7/02 Spring Break No classes			
9	3/10 & 3/11	Descent with Modification: A Darwinian View of Life; The Evolution of Populations	
10	3/17 & 3/18	The Origin of Species; Phylogeny and Systematics	
11	3/24 & 3/25	Early Earth and The Origin of Life; An Introduction to Ecology	
12	3/31 & 4/1	Behavioral Biology & Review	
13	4/7 & 4/8	Population Ecology & Community Ecology	
14	4/14 & 4/15	Ecosystems and Conservation biology	
15	4/21 & 4/22	Conservation biology (continued) & Review	