

# BIO 105 LECTURE SCHEDULE

FALL 2004

## SECTION 002, DR. HARO

**Office:** Room 4028 Cowley Hall 785-6970 (work)

**Goals:** This course emphasizes problem-based learning. This is not only useful in understanding how science is practiced, but can be applied to solving problems in other disciplines. There are three main goals:

1. To learn to think like a scientist.
2. Learn how to analyze and interpret experimental data by making models.
3. Develop an understanding of how living organisms survive and adapt to their surroundings.

**Lectures:** Tuesday and Thursday from 11:00 to 12:25 in room 140 Cowley Hall. You are responsible for all material covered in class, homework assigned, and any changes announced in exam dates.

**Textbook:** There is one required textbook for this course, but there will be other assigned readings as well.

Biology. Raven and Johnson, 6<sup>th</sup> edition.

**Quizzes and Talks:** (50 points) There will be 9 5-point **on-line quizzes on terms** before the beginning of a new unit. A list of terms will be placed on the Desire 2 Learn (D2L) site. The best strategy for taking the on-line quiz is to look up each term and write down the definition. The computer will randomly select 5 terms for you to define from the list provided. You will only have 5 minutes to complete the quiz, and you can use your list of definitions on the quiz. The quiz will be available until 30 minutes before lecture.

You will also be asked to attend one **biology seminar** during the semester and write a brief description of the talk. A schedule of talks will be posted on D2L. This is also worth 5 points.

**Exams:** (300 points) There will be three scheduled exams.

**Final Exam:** (150 points) There will be a **comprehensive** final exam covering all lectures and assigned readings on Sat. Dec. 18 from 2:30-4:30 p.m.

**Lab:** (200points). The lab is broken into 3 units, each lasting 4 weeks. Nine labs will have 5 point **pre-lab quizzes** over the assigned background reading for that lab. Three labs will have 20 point **post-lab quizzes**. There will be additional **oral** and **written** assignments for each lab unit totaling 30 points. A lab manual can be purchased at the bookstore in the Cartwright Center.

**Total points:** 700

**Grading:**

A	92-100%
AB	88-91%
B	81-87%
BC	77-80%
C	67-76%
D	55-66%

**Office hours:** Mon. and Wed., 2:15 p.m. to 4:15 p.m. in 4028 Cowley Hall or by appointment.

**Review sessions:** I will stay after class each day to answer questions and review. Additional review sessions for the hourly exams and the final will be held if there is sufficient interest shown by the class. I will not prepare a review but will answer questions to clarify material covered in the lectures and the readings.

**Study Skills:** Making the transition from High School to College is very difficult for some students. We tend to cover more material at a quicker pace in college. In addition, you will need to be more responsible for your own study habits. Lectures are large, and require attendance and good note taking skills to master much of the material. Finally, grades are based upon fewer assignments, in this course 4 exams, lab quizzes and 3 lab reports.

A group of 50 high school and college science and math teachers met in the summer of 2001 to identify what they found to be valuable student study skills. These are available at the following website.

[http://bioweb.uwlax.edu/website/website\\_handout/website\\_handout.htm](http://bioweb.uwlax.edu/website/website_handout/website_handout.htm)

**D2L:** Lecture notes, links to reading assignments and grades will be posted electronically on a site called Desire 2 Learn (I didn't name it). It can be accessed at

<http://uwlax.courses.wisconsin.edu/>

Your Login in is the part of your e-mail address before the @ symbol, i.e. mine is haro.roke

You Password is (nnnnmmdd)

nnnn = the last four digits of the student's ID number. For most students this is NOT their social security number.

mm = two digit month of birth (ex., 02, 11)

dd = two digit day of birth (ex., 05, 28)

**e-mail.** I will use the e-mail accounts on D2L to make announcements. Your campus e-mail account is the first 8 letters of your last name and the first 4 letters of your first name followed by @uwlax.edu, i.e. mine is [haro.roke@uwlax.edu](mailto:haro.roke@uwlax.edu). If you would like messages sent to a different e-mail address, then please log onto D2L and change your personal preferences.

**Any student with a documented disability (e.g., physical, learning, psychiatric, vision, or hearing, etc.) who needs to arrange reasonable accommodations must contact the instructor and the Disability Resource Services Office (165 Murphy Library) at the beginning of the semester. Students who are currently using Disability Resource Services will have a copy of a contract that verifies they are qualified students with disabilities who have documentation on file in the Disability Resource Service Office.**

**BIO 105 SECTION 002, DR. HARO FALL 2004**

Sept 7		Ecology: <i>Biomes</i>
Sept 9		Ecology: <i>Biodiversity and Conservation Biology</i>
Sept 14		Ecology: <i>Communities and Competition</i>
Sept 16		Ecology: <i>Symbiosis, Predation and Energy Flow</i>
Sept 21		Ecology: <i>Chemical Cycles</i>
Sept 23	EXAM 1 100 PTS	
Sept 28		The Heart: <i>Cell Structure and Function</i>
Sept 30		The Heart: <i>Cell Structure and Function</i>
Oct 5		The Heart: <i>Cell Structure and Function</i>
Oct 7		The Heart: <i>Metabolism</i>
Oct 12		The Heart: <i>Metabolism</i>
Oct 14		The Heart: <i>Metabolism</i>
Oct 19		
Oct 21	EXAM 2 100 PTS	Plants: <i>Photosynthesis</i>
Oct 26		Plants: <i>Photosynthesis</i>
Oct 28		Plants: <i>Life Cycles</i>
Nov 2		Plants: <i>Life Cycles</i>
Nov 4		Plants: <i>Mendelian Genetics</i>
Nov 9		Plants: <i>Mendelian Genetics</i>
Nov 11	EXAM 3 100 PTS	
Nov 16		Disease: <i>Molecular Biology and Biotechnology</i>
Nov 18		Disease: <i>Molecular Biology and Biotechnology</i>
Nov 23		Disease: <i>Molecular Biology and Biotechnology</i>
Nov 25		<b>Thanksgiving</b>
Nov 30		Species: <i>Evolution</i>
Dec 2		Species: <i>Evolution</i>
Dec 7		Species: <i>Evolution</i>
Dec 9		Species: <i>Population Biology</i>
Dec 14		Species: <i>Population Biology</i>
Dec 18	FINAL 150 PTS	<i>Comprehensive Final from 2:30-4:30 p.m. in 140 Cowley Hall</i>

## BIOLOGY 105 – FALL 2004

### LABORATORY QUIZ AND REPORT SCHEDULE

Date	Unit(s)	Quiz/Report	Your Score
September 13-16	Ecology 1	Pre-Lab Quiz 1 (5 points)	
September 20-23	Ecology 2	Pre-Lab Quiz 2 (5)	
September 27-30	Ecology 3	Pre-Lab Quiz 3 (5)	
October 4-7	Ecology 4	Pre-Lab Quiz 4 (5)	
October 11-14	E1, E2, E3, E4	Post-Lab Quiz (20) Ecology Lab Report Due (30)	
October 18-21	Cell 2	Pre-Lab Quiz 5 (5)	
October 25-28	Cell 3	Pre-Lab Quiz 6 (5)	
November 1-4	Cell 4	Pre-Lab Quiz 7 (5)	
November 8-11	C1, C2, C3, C4	Post-Lab Quiz (20) Cell Lab Report Due (30)	
November 15-18	Genetics 2	Pre-Lab Quiz 8 (5)	
November 29-December 2	Genetics 3	Pre-Lab Quiz 9 (5)	
December 6-9	G1, G2, G3	Post-Lab Quiz (20) Group Oral Presentation/C-Fern Report (30) Biodiversity Log (5)	

Total possible laboratory points is 200. However, points will be deducted for misuse of equipment in lab and for not following lab policies.

To study for **pre-lab quizzes** review the indicated chapter in your lab manual before going to lab

To study for **post-lab quizzes** review both the indicated chapters in your lab manual and review the results of your experiment and lab report before going to lab

**Lab reports** will be turned in as a group, and a common grade recorded. You will be given the opportunity to evaluate each other's contributions, which is worth 5 points of the total score.