

Bio 108
Concepts in Biology – Unity (Honors)
Course Policies and Guidelines
Fall 2013

Lecture and Lab: Dr. Shelly Michalski, Halsey 152, Phone: 424-7082, michalsk@uwosh.edu, Office hours:
MW 11:30 AM-12:30 PM

Text and Notes:

The text for this course is Essentials of the Living World, 4rd edition by George Johnson. The text is available in the bookstore and should be purchased prior to the first day of class. Lecture notes will be available on the UWO Desire 2 Learn site (<https://uwosh.courses.wisconsin.edu/>) in the Course Content section. I may periodically send the class announcements that are pertinent to class via email. These correspondences will be sent to your uwosh.edu accounts. If you use a different email account, then it is YOUR responsibility to make sure that your uwosh.edu e mails are forwarded to the account you use.

Course Objectives:

The goal of this course is to convey the concepts underlying key biological processes, and to relate this information to current issues that are debated in our society. Students will leave this course with an appreciation for how scientific investigations are performed, the fundamental processes that are crucial to life on this planet, and the evolutionary mechanisms behind population formation and maintenance.

Graded Work:

Lecture: Five lecture exams are scheduled (see syllabus for dates). Each will be composed of objective and subjective questions and will be worth 80 points (400 points total). Most exams will be given during laboratory time and will encompass lecture and laboratory material. Exam makeups are not allowed except in the proven cases of severe illness of a student or death of an immediate family member and I (the instructor) must be notified *prior to the scheduled exam date*. I reserve the right to determine the format and content of makeup exams. There will be no exceptions made.

Laboratory: Each laboratory is accompanied by a 25-point laboratory write-up, which is typically due at the conclusion of each laboratory period. Students will work in groups in the lab, and may work in groups to complete the laboratory write-up, however write-ups must be in the individual student's own words (no plagiarism).

Quizzes: A 10-point quiz will be given in each discussion session (total 80 points), excluding those that are used for exam review. The quiz will cover laboratory and lecture material.

Discussion: A discussion topic will be assigned with accompanying questions. You will hand in the answers to those questions on Thursdays after discussion for 10 points (total 80 points).

Journals: Students will maintain a journal for biology articles from the popular press. The articles and written summaries will be used on a semi-weekly basis for class discussion during discussion sessions (excluding those used for exam review). Guidelines for composing written summaries will be provided. Articles are due at the beginning of the discussion session. Each article is worth 10 points (total of 80). An article missing a summary or accompanying an incomplete summary is worth zero points.

Point Distribution:

Exams	5	x	80 = 400 points
Quizzes	8	x	10 = 80 points
Discussion	8	x	10 = 80 points
Journal	8	x	10 = 80 points
Lab Write-ups	8	x	25 = <u>200 points</u>
			840 points

Grading Scale:

Students monitor their progress by checking the Grades page on the course D2L site. Simply add up the total of exam and extra credit points you have accrued, divide it by 700, and multiply by 100 to get the percentage.

<u>Percentage</u>	<u>Grade</u>
93-100	A
90-93	A-
87-89	B+
82-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
67-69	D+
64-66	D
60-63	D-
<60	F

Late Policy: Ten percent off for each weekday late.

Attendance Policy:

Attendance is mandatory for each lecture, discussion and lab session (see "Course Attendance" statement in the Undergraduate Bulletin). There will be no makeup labs, so attendance is crucial. We will occasionally start lab experiments during lecture or discussion time, and finish up lecture topics in lab or discussion time, so please be on time to each session.

Outside Readings:

Outside reading assignments may be assigned to supplement text/lab material. Copies of the readings will be placed on reserve or handed out in class. You will be responsible for any assigned outside reading material on exams and/or quizzes.

Academic Integrity:

Students are expected to uphold the guidelines of academic integrity put forth by University of Wisconsin-Oshkosh. Violation of these standards (i.e. cheating) will result in formal written reprimand, a failing grade for the course, and possible disciplinary probation.

Common Courtesy:

A ringing cellular phone disrupts the learning process of your neighbors. Please turn off all cell phones and pagers prior to class.

Americans with Disabilities Act:

UWO is committed to providing accommodations and/or services to students with documented disabilities. Students who are seeking support for a disability should contact Disability Services, 125 Dempsey Hall. Phone: 424-3100; TTY 424-1319; email www.tts.uwosh.edu/dean/

Bio 108 Biological Concepts: Unity (Honors)

Lecture MWF 10:20-11:20 AM Halsey 266

Discussion: Th 12:00-1:00 PM Halsey 367

Laboratory: Th 1:20-4:20 PM Halsey 201

Fall 2013

Lec #	Day	Date	Topic	Reading	Lab
			Science and Scientific Progress		
1	W	9/4	Syllabus, Intro to Diversity	1.1-1.2	
	Th	9/5	-----		no lab
2	F	9/6	Organization of Life	1.3-1.4	
3	M	9/9	Scientific Method	1.5, 1.6, foal article	
4	W	9/11	Scientific Investigation	1.5,22.5	
	Th	9/12	-----		Taxonomy, Drinking <i>Daphnia</i>
5	F	9/13	Requirements for Life	Ch.2	
6	M	9/16	Requirements for Llife, cont.	Ch. 2	
7	W	9/18	Origins of Life: Is anyone out there?	16.1-2	
	Th	9/19	D: Review for Exam I		Exam I
			Cells: Fundamental Units of Life		
8	F	9/20	The World of Cells	4.1-4.3	
9	M	9/23	Cell Structure and Movement	4.4-4.8	
10	W	9/25	Nutrition and Communication	4.9-4.11	
	Th	9/26	D: Open (Q2, J2)		Are You Alone in the Water?
11	F	9/27	Energy and Life	Ch. 5.4-5,6-7	
13	M	9/30	Cell Division	8.1-8.4	
14	W	10/2	Cancer	8.5, 11.5	
	Th	10/3	D: TBA (Q3, J3)		Dance of the Chromosomes
12	F	10/4	Stem Cells	13.7	
15	M	10/7	Cool cells: neuromuscular system	23.4-5, 23.7	
16	W	10/9	Cool cells: pancreas and diabetes	30.4	
	Th	10/10	D. Review for Exam II		Exam II
			Genetics: The Science of Heredity		
17	F	10/11	Sexual Life Cycles	9.2	
18	M	10/14	Meiosis	9.3-4	
19	W	10/16	Mendelian Genetics	10.1-4	
	Th	10/17	D: TBA (Q4, J4))		Hot Fruit Fly Love
20	F	10/18	Mendelian Genetics	10.5-6	
21	M	10/21	Just What the Heck is DNA anyway?	3.3, 11.3, 12.1-4	
22	W	10/23	Human Chromosomes	10.7-10, 8.3	
	Th	10/24	D: TBA (Q5, J5)		Are you really that bitter?
23	F	10/25	Medical Genetics	10.9-10, Ch 13	
24	M	10/28	Genetic Engineering in Agriculture	13.5	
25	W	10/30	Reproductive Cloning	13.6	
	Th	10/31	D: Review for Exam III		Exam III
			The Human Body		
26	F	11/1	Organization	23.1-5	
27	M	11/4	Organization, cont.	23.1-5	
28	W	11/6	Circulation	Ch24	
	Th	11/7	D: Open (Q6, J6)		Human Physiology
29	F	11/8	Respiration and Effects of Smoking	25.3-5	

30	M	11/11	Digestion	Ch. 26	
31	W	11/13	Human Reproduction	31.2-4, 31.7	
	Th	11/14	D: TBA (Q7, J7)		Antibodies as Medical Tools
32	F	11/15	Action and Reaction: The Nervous System	29.1-6	
33	M	11/18	Communication: Hormones	Ch. 30	
34	W	11/20	Immunity and AIDS	28.1-6, 28.11, 28.8	
	Th	11/21	D: Review for Exam IV		Exam IV
			<i>Evolution and Ecology</i>		
35	F	11/22	Darwin and Evolutionary Theory	14.1-7	
36	M	11/25	Evolution in Action	14.4-5	
	W	11/27	Turkey Day Break		
	Th	11/29	Turkey Day Break		
	F	11/30	Turkey Day Break		
37	M	12/2	Ecology	19.1-6, 22.8	
38-39	W	12/4	Ecosystems	Ch. 20	
	Th	12/5	D: TBA Q8, J8)		Natural Selection: Will You Survive?
40	F	12/6	Coevolution	19.10-13	
41	M	12/9	Ecosphere in Crisis	Ch. 22	
	W	12/11	Exam V		Exam V