

Biology 106
Biological Concepts: Diversity
Section A09C
Fall 2016

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LECTURE INFORMATION

LECTURE SCHEDULE: 9:10-10:10 MWF in HS57.

LECTURE TEXT (RECOMMENDED): **Campbell's Biology: Concepts and Connections**, 7th edition by J.B. Reece, M.R. Taylor, E.J. Simon and J.L. Dickey (2012) (ISBN-13: 978-0321696816). BUY IT, USE IT (see list of readings, below).

LECTURE EXAMS: Four lecture exams will be given, the dates of which are provided in the Lecture Schedule (below). A missed exam will result in a score of zero for that exam, unless a student qualifies for a makeup exam.

LECTURE ATTENDANCE POLICY: I will not take attendance. However, given that each lecture represents ~10% of the subsequent exam, skipping lecture is the most foolish and grade-damaging thing a college student can do. I will not repeat lectures and I do not publish my lecture notes. I do, however, post pod-casts on D2L. If you want to know what will be on the next exam, you have to come to class every day. If you skip class you will have to get notes from a fellow student, or rely on the pod-cast. Any student with a valid excused absence will be allowed to make up any missed material, with the exception of in-class quizzes. However, an excused absence does not excuse a student from the responsibility of knowing the material covered during the day class was missed.

Students with disabilities are asked to contact their lecture and lab instructors in the first week of class so that all possible accommodations may be arranged.

LABORATORY INFORMATION

LABORATORY MATERIALS (REQUIRED):

BIO 106 Laboratory Manual. Available only in UWO Bookstore. You must bring it to every laboratory meeting. It contains a full explanation of every laboratory, instructions on how to conduct the laboratory exercise and pages that will be filled out and left with your instructor at the end of the lab period.

Photo Atlas for Biology by J.W. Perry and D. Morton (ISBN-10: 053423556, ISBN-13: 978-0534235567). Available at the University Bookstore or on line.

Sketchbook: Available in the University Bookstore. It comes bundled with the Photo Atlas if both are purchased at the University Bookstore.

LABORATORY ASSIGNMENTS: Your laboratory instructor, Brad Spanbauer is responsible for assigning and grading the 250 points of various lab exams, quizzes and sketches. Mr. Spanbauer will explain this the first day of lab.

LABORATORY ATTENDANCE POLICY: Students are required to attend the laboratory section in which they are enrolled. THERE WILL BE NO MAKE UP LABS. THEREFORE, MISSED LABS CANNOT BE MADE UP. It may be possible to attend an alternative section if there is room in that section and if the lab instructor is notified in advance. The lab instructor and is under no obligation to accept other students into his lab and will only do so if space is available.

STUDY AIDS: Each student will need to develop a personal study system that works for him/her. Here are some suggested tools.

MANAGE YOUR TIME: Make a weekly class and study schedule and stick to it.

ATTEND CLASS: Do not skip, pay attention, take good notes.

CELL PHONES OFF:

REWRITE YOUR LECTURE NOTES: Every lecture, before the next lecture.

USE THE TEXTBOOK: Don't just read it, use it.

TALK TO ME: email, office hours

DEVELOP A STUDY ROUTINE: place, time, study partner, study group, study supplies, reward system

GO TO THE READING AND STUDY SKILLS CENTER: 201 Nursing/Education, 424-1031,

www.uwosh.edu/programs/readingstudycenter

GO TO THE CENTER FOR ACADEMIC RESOURCES: 102 Student Services Center, 424-2290, www.uwosh.edu/car/.

EARLY ALERT PROGRAM: This can provide you with early feedback on how well you are doing. From the University: "Early Grade Reports will indicate if you have academic performance or attendance issues and specific steps you can take and resources available to help you improve. It is common for students to be unaware of or over-estimate their academic performance in classes so this will help you be aware early on of your progress and provide strategies for success in the classroom. You will receive an email during the 5th week of classes. It is important to read the entire email carefully." If you receive an Early Alert, please meet with me or a counselor in the Center for Academic Resources to develop an action plan.

GRADING: there will be a total of 650 points

LECTURE GRADING: There will be four lecture exams, each worth 100 points, for a total of 400 points.

LABORATORY GRADING: 250 points will be assigned to lab exams, quizzes and other lab assignments to be announced in laboratory by your lab instructor (see your laboratory syllabus).

COURSE GRADE: The 400 points from the lecture exams will constitute 62% of the total course grade, while the 250 points total from the laboratory will constitute the other 38% of the total course grade. I do not curve. I do not normalize. End-of-the-semester letter grade assignments will be made using the grading scale given below.

GRADING SCALE:

<u>Total points</u>	<u>Percent</u>	<u>Letter grade</u>
650-598	100-92.0	A
597-585	91.9-90.0	A-
584-572	89.9-88.0	B ⁺
571-533	87.9-82.0	B
532-520	81.9-80.0	B-
519-507	79.9-78.0	C ⁺
506-468	77.9-72.0	C
467-455	71.9-70.0	C-
454-442	69.9-68.0	D ⁺
441-403	67.9-62.0	D
402-390	61.9-60.0	D-
389-0	<59.9	F

OFFICE HOURS

Monday and Wednesday 10:20-12:20, or by appointment. I'm not very good at returning phone calls (I don't like playing phone tag over voice mail) but I will gladly answer any questions via email or during office hours. The best way to reach me is right after lecture or via email. The worst time is right before lecture.

STATEMENT ON USE OF ELECTRONIC DEVICES IN CLASS

In order to protect and foster the proper learning environment, the use of cell phones is not allowed in lecture or lab. That includes sending or receiving voice or text messages, or even checking to see if new calls/messages have come in. Please turn your phone off at the start of class to prevent interruptions from incoming calls. Unauthorized use of a cell phone in class is disruptive and students violating the no-cell-phone policy described above will be asked to leave the room immediately. Wireless laptop computers are allowed, but only if their use is limited to activities directly related to course performance such as taking notes or looking up content on the web. Use of portable

music devices is not allowed in lecture or lab at any time. Use of any electronic device during an exam will be considered to be an act of academic dishonesty (see below) and will result in an automatic zero for that exam.

STATEMENT ON ACADEMIC DISHONESTY

Students are referred to the University of Wisconsin Oshkosh Student Discipline Code as detailed in Specific provisions of Chapter 14 of the State of Wisconsin Administrative Code. Any student(s) found in violation of any aspect of the above Code (as defined in sections UWS 14.02 and 14.03) will receive a sanction as detailed in UWS 14.05 and 14.06. Sanctions range from an oral reprimand to expulsion from the University of Wisconsin-Oshkosh. Students have the right to request a hearing and to appeal sanctions (as defined in UWS 14.08-14.10). Talking during an exam or looking at another student’s exam will constitute grounds for disciplinary action.

Sadly, I have enforced, and will continue to enforce, the above policy.

Lecture Schedule -- Biology 106 -- Fall 2016

Date	#	Lecture title	Text Sections
Sept. 7	1	Intro to Class, Definitions of life and diversity	1.1
Sept. 9	2	Darwin’s Theory of Evolution	13.1-13.6
Sept. 12	3	Evolution of Populations	13.7-13.10 13.11-13.17
Sept. 14	4	Defining Species and Mechanisms of Speciation	14.1-14.7, 14.8-14.11
Sept. 16	5	Early Earth and the Origin of Life	15.1-15.6, 15.7-15.13
Sept. 19	6	Phylogeny and the Tree of Life	15.14-15.19
Sept. 21	7	Viruses	10.18-10.21
Sept. 23	8	Prokaryotes	16.1-16.6
Sept. 26	9	Domains Archaea and Bacteria	16.7-16.12
Sept. 28	10	Protists	16.13-16.21, 16.16
Sept. 30	11	Plant Evolution and Diversity	17.1-17.6
Oct. 3	--	Lecture Exam I (on lectures 1-10; Evolution, Prokaryotes, Protists, 54 modules, 10 lectures)	
Oct. 5	12	Alternation of Generations and Plant Life Cycles: Seed plants	17.7-17.13
Oct. 7	13	Diversity of Fungi	17.14-17.21
Oct. 10	14	Plant Structure and Function	31.1-31.6
Oct. 12	15	Plant Growth	31.7-31.8
Oct. 14	16	Reproduction of Flowering Plants	31.9-31.15
Oct. 17	17	The Uptake and Transport of Plant Nutrients	32.1-32.5
Oct. 19	18	Plant Nutrients and the Soil	32.6-32.14
Oct. 21	19	Plant Hormones	33.1-33.8
Oct. 24	20	Plant Responses to Stimuli	33.9-33.13
Oct. 26	21	Animal Evolution and Diversity	18.1-18.4
Oct. 28	--	Lecture Exam II (on lectures 11-20; Plants; 64 modules)	
Oct. 31	22	Invertebrate Evolution and Diversity I	18.5-18.10
Nov. 2	23	Invertebrate Evolution and Diversity II	18.11-18.14
Nov. 4	24	Vertebrate Evolution and Diversity I	19.1-19.4
Nov. 7	25	Vertebrate Evolution and Diversity II	19.5-19.8
Nov. 9	26	Primate Diversity	19.9-19.10
Nov. 11	27	Hominin Evolution	19.11-19.17

Nov. 14	28	Structure and Function in Animal Tissues	20.1-20.7
Nov. 16	29	Organs and Organ Systems	20.8-20.12
Nov. 18	30	Exchange and Regulation	20.13-20.17
Nov. 21	--	Lecture Exam III (on lectures 21-30; Animals; 48 modules)	
Nov. 23	--	<i>Thanksgiving recess (starts Tuesday Nov. 22 after evening classes)</i>	--
Nov. 25	--	<i>Thanksgiving recess</i>	--
Nov. 28	31	The Biosphere	34.1-34.5
Nov. 30	32	Aquatic Biomes	34.6-34.7
Dec. 2	33	Terrestrial Biomes	34.8-34.18
Dec. 5	34	Population Structure and Dynamics	36.1-36.8
Dec. 7	35	The Human Population	36.9-36.11
Dec. 9	36	Community Structure and Dynamics	37.1-37.9
Dec. 12	37	Community/Ecosystem	37.10-37.17
Dec. 14	38	Ecosystem Structure and Dynamics	37.18-37.23
Dec. 16		Lecture Exam IV (lectures 31-38; Ecology; 52 modules)	