Biol 9 – Diversity of Life Spring 2008
Section 1 (MWF 8:45-9:35) Dr. Fox

Instructor: Dr. Jennifer Fox
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jafox@drew.edu, x3358
Office Hours: TBA (see moodle)
or by appointment, or when door is open

Website: moodle.drew.edu/
Lecture: MWF 8:45-9:35
Laboratory: MTW or R 1:15-4:15
HS-129

Course Goals and Objectives

In this course we will explore the diversity and unity of life on Earth. We will survey the bacteria, protista, fungi, plants, and animals, with an emphasis on understanding evolutionary processes and adaptations for survival, reproduction, development, and metabolism. In addition, you will gain experience with experimental methods and the scientific process.

Course Expectations

I expect you to come to each class prepared, to treat all members of the class with respect, and to turn assignments in on time. You can expect the same from me in return.

Lectures

Attendance at all lectures is important, and expected. You are responsible for all information presented in lectures, including any announcements and course content not found in your textbook. Although this is a large course, your active participation is expected. Participation entails coming to class prepared, listening actively, and speaking up when required. Occasionally you may be asked to take a specific stance in a class debate, work in small groups, or make a brief presentation to the class. Of course participation is not possible if you are not here, so you must come to every class on time. I have a zero tolerance policy for inappropriate use of laptops or other electronic devices.

Readings

Our text is Campbell and Reece's "Biology," Seventh Edition. Please take advantage of the additional materials available on the CD-ROM included with the text and online (see link on course moodle site). Additional readings will be distributed in class, available on the course web site, or on reserve at the Drew University Library. Each week you will be told which chapters we will cover; assigned readings should be *completed* by the corresponding class.

The lectures and readings for this course are designed to supplement, not repeat, each other. We will talk about topics in class that are not covered explicitly in the readings, and you will read about things that we will not discuss in much detail. I often use different examples than the text in order to give you an additional perspective or to highlight different aspects of a subject. Therefore, to do well in this course you must attend all lectures *and* keep up with the readings.

In-class Quizzes

You will be quizzed regularly and your lowest 4 quiz scores will be dropped. It is NOT possible to make up a quiz regardless of your reason for missing class; please don't ask.

Laboratory

The laboratory experience is an integral part of this course, and your attendance and active involvement in all labs is required. Because of the nature of many labs, it is not possible to make up a missed lab. You will receive more detailed information about the expectations for this portion of the class in your lab section. Please note that two or more unexcused absences from lab will result in failing the entire course.

Evaluation and Grading

Your performance in the course will be evaluated based on the following percentages:

Three 1-hour exams	36 (12% each)
Final exam	15
Quizzes and participation	8
Organism webpage	8
Other assignments	8
Laboratory	25

Dates and Deadlines

As Ben Franklin almost said, nothing is certain but death, taxes, and deadlines. In this course deadlines are imposed not only to prevent you from falling behind, but also to ensure that your work can be returned to you in a timely manner. Exceptions will be made in cases of serious illness or family emergency and reasonable allowances will be made to accommodate other conflicts if they are brought to my attention *before* the deadline. A late assignment will lose 10% of its value every 24 hours, and will not be accepted after the assignment has been returned to the class.

Absences

Attendance and participation at all classes is expected, and multiple unexcused absences will negatively impact your grade. Absences due to planned events, such as religious holidays or University-sanctioned activities, should be discussed with me beforehand so that we can make suitable arrangements. Routine or excessive tardiness will be treated as absences. ***Regardless of your reason for missing a class, YOU are responsible for finding out what you missed, getting copies of anything distributed in class, and turning in any work collected***.

Academic Integrity

Copying from published sources or from classmates, failing to give full credit for quotations or ideas, or attempting to pass any work done by others as your own are examples of plagiarism. Plagiarism is a violation of the Drew University Academic Integrity Code. Moreover, it is simply wrong, and undermines the mutual trust on which an academic community must be based. Plagiarism will not be tolerated. If you are ever unsure about whether you should credit a source, err on the side of over-citing and ask for guidance.

Extra Help

The best way to learn is to teach others. I strongly encourage you to take advantage of the collective wisdom of your classmates – let your discussions spill over into time outside of formal class meetings, work together to discuss readings and prepare for class, form informal study groups. ***The production of all assignments, however, should be your own work***.

I am available during my office hours and am happy to make appointments to discuss biology, course specifics, or other matters. If you are having difficulty with the course, please come and see me – the sooner the better – so that we can take advantage of the many resources available to you at Drew. If you are enjoying the course, stop by to discuss topics we're covering or things we aren't getting to. I am interested in your questions, comments, and suggestions about this course.

Requests for academic accommodations must be formally filed with the Office of Educational Services. It is your responsibility to self-identify with the Office of Educational Services. To schedule an appointment call x3327 or stop by BC 114. Please note that there are no retroactive accommodations.

I look forward to spending the semester exploring the diversity of life with you!

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Course Schedule

Date	Topic	Reading	Other
M Jan. 28	Tree of Life	Ch. 26	
W Jan. 30	Phylogenies & Systematics	Ch. 25, 21.4	
F Feb. 1	Basic Requirements of Life	Ch. 1	last day to add/drop without signature
M Feb. 4	Prokaryotes and Eukaryotes	Ch 27, 9.5	
W Feb. 6	Rules to Live By	Ch. 3.1, 3.2, 7.3,	
F Feb. 8	More Rules to Live By	6.2, 8.1, 40.1	last day to add/drop with signature
M Feb. 11	Viruses & Prions	Ch 18.1-18.2	
W Feb. 13	Bacteria	Ch 18.3, 27	
F Feb. 15	**Exam 1**		
M Feb. 18	Rise of Eukaryotes: Protists	Ch. 26.3, 26.4, 28	
W Feb. 20	Protists and Algae	Ch. 26.3, 26.4, 28	
F Feb. 22	Algae	Ch. 28.8, 29	
M Feb. 25	Plant Life Cycles	Ch. 29.3-29.4	
W Feb. 27	Plant Land Invasion	Ch. 29, 30	
F Feb. 29	Vascular Plants	Ch. 29.4, 30	
M Mar. 3	Angiosperms	Ch. 30, 38.1-38.3	
W Mar. 5	Fungi	Ch. 31	
F Mar. 7	Fungi 2	Ch. 31	
Mar. 10-14	SPRING BREAK		
M Mar. 17	Animal Diversity	Ch. 32, 24.3	
W Mar. 19	**Exam 2**		
F Mar. 21	No class – Good Friday		
M Mar. 24	Animal Form & Function	Ch. 40.1-40.3	
W Mar. 26	Invertebrates	Ch. 33	
F Mar. 28	Invertebrates & Vertebrates	Ch. 33, 34	
M Mar. 31	Vertebrates	Ch. 34	
W Apr. 2	Animal Form & Function	Ch. 40.1-40.3	Organism Webpage due
F Apr. 4	Animal Reproduction & Development	Ch. 46, 47	last day to drop with W

Readings from: N.A. Campbell and J.B. Reece. 2005. Biology. Seventh Edition. San Francisco, CA: Benjamin Cummings. Readings should be *completed* by the day listed on the syllabus.
This schedule is tentative and subject to change (with notice!)

Date	Topic	Reading	Other
M Apr. 7	Energy: Animal Nutrition	Ch. 41	
W Apr. 9	Energy: Photosynthesis	Ch. 10, 37.4	
F Apr. 11	Energy: Photosynthesis 2	Ch. 10, 37.4	
M Apr. 14	**Exam 3**		
W Apr. 16	Plant Structures & Tissues	Ch. 35, 38	
F Apr. 18	Water: Plant Transport	Ch. 36	
M Apr. 21	Water: Circulation & Gas Exchange	Ch. 42	
W Apr. 23	Water: Osmoregulation & Excretion	Ch. 44	
F Apr. 25	Water: Osmoregulation & Excretion	Ch. 44	
M Apr. 28	Coordination & Regulation: Plants	Ch. 39	
W Apr. 30	Coordination & Regulation: Animals	Ch. 40.4-40.5, 45	
F May 2	Coordination & Regulation: Animals	Ch. 45, 48	
M May 5	Conclusions		
May 8-14	**Final Exam** (date, time TBA)		