

General Biology 112

Fall 2011

Lecturer and Coordinator: Prof. Elizabeth Boyle Ph.D.

Office: W-3-017

Office hours: Tuesday 3:30-5:00 PM or by appointment

Email: elizabeth.boyle@umb.edu *****best way to reach me

Course meets in Lipke Auditorium Science bldg Tuesday and Thursdays 5:30-6:45PM

Textbook and other required material:

1. Campbell et al. *Biology* 9th edition (8th edition is fine)

2. *A Photographic Atlas for the Biology Laboratory* 6th edition Van De Graaff and Crawley

3. An iClicker

4. Laboratory manual: You can purchase this at Quinn graphics LL 024 (recommended) or download from the course website (missing some pictures)

Course website: <http://www.bio.umb.edu/> click on Biology 112

The syllabus, lecture slides, and lab manual will be available here.

Exams:

1. Three in class exams will be given. The two highest scores will count toward the final grade and the lowest will be dropped. There will be no make-up exams if you miss one exam. If you miss more than one exam make-up exams will only be given a make up exam if you can **document** both absences were for legitimate reasons.

2. A final comprehensive exam will be given during the final exam period 12/16-12/22.

If you have a disability and will need accommodations for taking exams please contact the Ross Center for Disability Services, Campus Center, 2nd Floor, Room 2010, 617-287-7430

Grades:

40% Hour exams (3 exams will be given the highest 2 scores will count)

22% final exam -mandatory exam and it will be cumulative

36% Lab grade

2% iClicker responses - in class use of iclicker will count as attendance points

iClicker: During lectures starting in the 3rd week, I will ask multiple choice questions; these questions are designed to see if you have an understood the major point of the lecture, see what your knowledge of a subject is before I begin to lecture, or to start a discussion. You will submit the answer using your iClicker. I may ask more than one question during class. The iClicker responses will count as your lecture attendance record and will count for 2% of your grade. You will receive credit when you submit an answer whether it is correct or not. For some questions there may be a small amount of additional credit for the correct answers. You can only answer for yourself.

Lecture Schedule:

NOTE: The readings may be refined as I write the lectures. I am assigning the whole chapter, but may not cover everything in the chapter. I suggest before class you skim the chapter and after class you read the sections that correspond to the focus of the lecture.

Date	Topic	Readings 9th ed	Readings 8th ed
Tu 9/6	Class Introduction and Evolution 1: Intro	Ch 22-22.2	Same
Th 9/8	Evolution 2: Natural Selection	22.3-22.4	Same
Tu 9/13	Evolution 3: Population Genetics I	Ch 23-23.3	Same
Th 9/15	Evolution 4: Population Genetics II	23.4	Same
Tu 9/20	Evolution 5: Species and Taxonomy	24	Same
Th 9/22	Evolution 6: Earth History	25	Same
Tu 9/27	Evolution 7: Phylogeny and Molecular data	26	Same
Th 9/29	Themes1:Nutrition, Size and Scale	99-101; Fig 10.22; 27.3; 31.1; 37.2; 40.1;fig 40.17; 1111-1113	Same except 10.21 & 1113-1114
Tu 10/4	Themes2: Respiration, Circulation & Reproduction	Fig. 36.2; 42.1-42.2 Fig. 13.6	Same
Th 10/6	Exam I: Evolution and Themes		
Tu 10/11	Prokaryotes, Protists, Fungi	Skim 27,28,31	Same
Th 10/13	Plants 1: Mosses and Ferns	29	Same
Tu 10/18	Plants 2: Gymnosperms and Angiosperms I	30-30.3	Same
Th 10/20	Plants 3: Angiosperms II	30-3-30.4; 38	Same
Tu 10/25	Plants 4: Plant form and function	35-35.4; 36.1-36.5	Same
Th 10/27	Animals 1: Introduction and Invertebrates I	32	Same
Tu 11/1	Animals 2: Invertebrates II	33	Same
Th 11/3	Exam II Prokaryotes-Animal 2		
Tu 11/8	Animals 3: Vertebrates	34	Same
Th 11/10	Animal Form and Function	40	Same
Tu 11/15	Animal Behavior	51	Same
Th 11/17	Ecology 1: Introduction	52	Same
Tu 11/22	Ecology 2: Population Growth	53	Same
Th 11/24	No class Thanksgiving		
Tu 11/29	Ecology 3: Interactions	54-54.2	Same
Th 12/1	Ecology 4: Community Structure	54.3-54.5	Same
Tu 12/6	Ecology 5: Ecosystems	55	Same

Th 12/8	Exam III: Animals 4-Ecology 5		
Tu 12/13	Ecology 6: Conservation Biology and Review	56	Same

FINAL EXAM Period:12/16-12/22 date of final will be announced in class when known

LABS:

Day	Section	Time	Room	TA
Wed	4	1:00PM-3:59PM	M-1-114	Sarah
Wed	2	5:30PM-8:29PM	M-1-114	Jon
Thurs	3	9:30AM-12:29PM	M-1-114	Jon
Thurs	5	9:30AM-12:29PM	M-1-116	Mandi
Thurs	1	2:00PM-5:00PM	M-1-114	Sarah
Thurs	6	2:00PM-5:00PM	M-1-116	Mandi

WEEK OF	LAB	Prelab due	Assignment due
Sept 12	HMNH	None	none
Sept 19	Skulls and Molecular Evolution	Yes (10pts)	HMNH ?'s due (30 pts)
Sept 26	Aipotu: Evolution	Yes (10pts)	Skulls & Evolution Assignment (30pts)
October 3	Microbial Diversity*	Yes (10pts)	Aipotu Assignment (30pts)
October 10	Plant Diversity I*	Yes (10 pts)	
October 17	Plant Diversity II*	None	
October 24	Plant Growth III*	Yes (10 pts)	
October 31	Animal Diversity I*	Yes (10 pts)	Plant Growth (20 pts)
November 7	Animal Diversity II*	Yes (10 pts)	
November 14	Practical Exam (all labs with *)	None	100 pts
November 21	No lab		
November 28	Animal Behavior	Yes(10 pts)	
December 6	Phylogenetic Collection	None	Animal Behavior Report (20pts); Phyl. Collection (20pts)
December 12	None	None	Phylogenetic Collection Report (30 pts)