

Biology 170: Principles of Biological Diversity

Summer 2017 Course Syllabus

MTWR 11:30-1:20 HS 411

Instructor: Greg Peters

207-6154

Office hours: see me after class or by appointment

greg.peters@mso.umt.edu

Text: *Campbell Biology 10th Ed.* (Reece and others, 2014)

Course Overview:

This course explores the remarkable diversity of life on Earth by examining the major groups of organisms, ranging from bacteria through animals. Other topics related to this theme include:

- Basic cell biology, including cell division
- Basic reproductive biology
- Phylogenetic classification
- Introduction to ecology

Suggestions for Success:

Regular attendance is critical. You can make sure to get the most out of classroom time by reading each assignment before class. Please raise questions whenever something is either unclear or maybe just particularly interesting; discussion and clarification of challenging concepts can benefit the entire class. I will always be available after class to help if needed. Stick around, set up an appointment, or send me an email with any questions you have. This course has an online Moodle supplement with which to track grades and revisit course materials.

Evaluation:

In-class worksheets are designed to help solidify core concepts, and are offered only in class. Exams will include a variety of question formats. The responsibilities for short animal presentations will be explained in detail mid-semester. You will receive a separate grade for Biology 171 if you are enrolled in the lab. Grading will break down as follows:

3 Exams @ 100 pts ea.	300 pts	90-100% = A- to A
In-class worksheets (highest 10/11)	50 pts	80-89% = B- to B+
<u>Vertebrate presentation</u>	<u>50 pts</u>	70-79% = C- to C+
Total	400 pts	60-69% = D- to D+

Course policies:

Students are expected to work alone during exams. Make-up exams will be permitted only with compelling and documented reasons. Only students registered with DSS will be considered for disability accommodation during exams. Please contact me one week before each exam if you require any service through DSS.

University policies on drops, adds, changes of grade option, or change to audit status will be observed in this course. Students should specifically note that after **week 2** such changes are not automatically approved. A petition to do so must be accompanied by documentation of extreme circumstances. Requests to drop a course or change the grade basis to benefit a student's grade point average will not be approved. A grade of C or higher will be considered passing for the P/NP option.

BIOL 170 Outline

Date	Topic	Text Reading:
June 26	Course Introduction; Cellular basis of life	44-50, 97-117
June 27	Cell division; Reproduction	232-240, 252-262
June 28	Phylogeny & Systematics	562-563, 501-505, 547-558
June 29	Prokaryotic life	567-585
July 3	<i>No Class</i>	--
July 4	<i>No Class</i>	--
July 5	Protists	587-610
July 6	Fungi; Lichens	648-666
July 10	Exam 1	--
July 11	Plants: Bryophytes; outline presentations	621-622
July 12	Plants: Seedless Vascular Plants	622-628
July 13	Plants: Gymnosperms	630-637
July 17	Plants: Angiosperms	638-645
July 18	Exam 2	--
July 19	Animals	667-677, 680-698
July 20	Animals	699-710
July 24	Animals	712-719
July 25	Vertebrate presentations	Overview Chapter 34
July 26	Intro to Ecology	Reference 1158-1176
July 27	Exam 3	--