

## Biology 170: Principles of Biological Diversity

## Summer 2018 Course Syllabus

MTWR 11:30-1:20 HS 411

**Instructor:** Greg Peters

207-6154

**Office hours:** see me after class or by appointment

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

### Learning Outcomes:

This course explores the amazing diversity of life on Earth by examining major groups of organisms, ranging from bacteria to animals. Successful completion will enable students to:

1. Recognize basic features of cell biology, including cell components and cell division
2. Understand core principles of reproductive biology
3. Appreciate the importance of phylogenetic classification
4. Distinguish major groups of life by key morphological and physiological features
5. Explore species diversity in the context of an introduction to ecology

### Suggestions for Success:

Regular attendance is critical. Be sure to read assigned pages regularly. Please raise questions whenever something is either unclear or particularly interesting; discussion 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. Students registered with DSS will be accommodated appropriately during exams, dependent upon completed and shared documentation. 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 25	Course Introduction; Cellular basis of life	44-50, 97-117
June 26	Cell division; Reproduction	232-240, 252-262
June 27	Phylogeny & Systematics	562-563, 501-505, 547-558
June 28	Prokaryotic life	567-585
July 2	Protists	587-610
July 3	Fungi; Lichens	648-666
July 4	<i>No Class</i>	--
July 5	<i>No Class</i>	--
July 9	<b>Exam 1</b>	--
July 10	Plants: Bryophytes; outline presentations	621-622
July 11	Plants: Seedless Vascular Plants	622-628
July 12	Plants: Gymnosperms	630-637
July 16	Plants: Angiosperms	638-645
July 17	<b>Exam 2</b>	--
July 18	Animals	667-677, 680-698
July 19	Animals	699-710
July 23	Animals	712-719
July 24	Vertebrate presentations	Overview Chapter 34
July 25	Intro to Ecology	Reference 1158-1176
July 26	<b>Exam 3</b>	--