

Bioe20c Ecology and Evolution

Course Syllabus

Instructor: Baldo Marinovic bbmarino@ucsc.edu Office Hours: M 10-11 am, Th 2-3 pm

Teaching Assistant: Edith Lai edylai@ucsc.edu Office hours: M 3:30-4:30 pm, W 10-11 am

Course Structure:

This course introduces students to fundamental concepts relating to Evolution and Ecology. Each topic will be covered through a series of thematic modules that are sequential and build on previously presented content. These modules will consist of several components including lectures, videos, worksheets, and in-class participation activities. There will be 4 modules each for the Evolution and Ecology components of the class. The modules will run 1-2 Lectures in length, and new modules will be posted 1-2 days before they start. In addition to these components, students will also be required to participate in a weekly discussion section which involves lecture material review, structured activities, and quizzes. The time of the section will be determined during the first class meeting.

Text: We will be using Life: The Science of Biology 12th ed by Sadava et al. The publisher has created a special subscription for the chapters that will be used in this course that will allow students access for 180 days at a cost of \$49.99. The eText can be obtained right now at the following location:

Custom eBook URL: vitalsource.com/custom/9781319486686

Tutoring Support: Learning Support Services (LSS) will be providing tutoring support for this class

What is Learning Support Services?

- Learning Support Services (LSS) is UCSC's undergraduate tutoring center. They effectively serve 3000+ students per year and employ undergraduate students as tutors.
- Their services are large group tutoring, small group tutoring, and individual tutoring.

The LSS tutor for this class is Naomi San Jose and she will be posting information on who to access her services in the class announcements on the first day of instruction

Exams and grades: There will be two exams – the midterm will cover the evolution component of the course and the final will cover the ecology component of the course. In addition, worksheets, section quizzes, and lecture based participation activities will also contribute to a student's overall grade. The breakdown will be as follows:

Midterm – 25%

Final – 25%

Worksheets – 25%

Section - 15%

In Class Participation – 10%

Date	Lecture Topic
26-Jun	Intro: Science Before Darwin/Darwin/Evidence for Evolution
28-Jun	Micro-Evolutionary Processes
30-Jun	Speciation
3-Jul	Macro Evolution
5-Jul	Phylogenies
7-Jul	Evolutionary History of Life on Earth/Review
10-Jul	Midterm
12-Jul	Intro to Ecology/Biomes
14-Jul	Behavioral Ecology
17-Jul	Population Ecology
19-Jul	Community Ecology - Species Interactions
21-Jul	Community Ecology - Community Dynamics
24-Jul	Ecosystem Ecology
26-Jul	Make Up/Review
28-Jul	Final Exam