

ECOLOGY & EVOLUTION · MARINE BIOLOGY  
PLANT SCIENCES · BIOLOGY BA

# EEB Community

ISSUE NO. 3

SUMMER +  
FALL 2018







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# The Usual

## BECAUSE THIS STUFF'S IMPORTANT

### LETTER GRADE POLICY

**All courses** you take to fulfill your major requirements, both lower and upper division, must be taken for a Letter Grade.

### REQUIRED LABS

If a course has a required lab you must pass both the lecture and lab to fulfill a major requirement.

EX: BIOE 122/L

### C- GRADES

C- grades CANNOT be used to satisfy a major or GE requirement and cannot satisfy a prerequisite for another course.

You must repeat a course if you receive a C- grade for major or pre-requisite credit. Only grades of "C" (2.0) or better will fulfill major requirements.

Contact us!

[EEBADVISING@UCSC.EDU](mailto:EEBADVISING@UCSC.EDU)

[EEB.UCSC.EDU/ACADEMICS/UNDERGRAD/INDEX.HTML](http://EEB.UCSC.EDU/ACADEMICS/UNDERGRAD/INDEX.HTML)



# FALL ENROLLMENT Updates

## WAITLISTS

Unless noted below, all courses will have an auto-enroll wait list. Check your student portal for your 2nd-Pass Enrollment appointment. **Wait lists do not become available until second pass enrollment.**

**All students enrolled, waitlisted, or seeking a seat in courses MUST attend the first class meeting.** To retain a seat in your classes, you must attend the first class meeting. Instructors may administratively drop anyone who does not attend.

## STUDENT RESPONSIBILITY

**You are responsible for ensuring the accuracy of your enrollments.**

Be sure to verify your classes and grade options prior to the enrollment deadlines listed in the Academic and Administrative Calendar.



## COURSE UPDATES

### ***NEW COURSE!***

### **BIOE 136 ENVIRONMENTAL PHYSIOLOGY**

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This new course will be taught by Dr. Robin Dunkin and will explore how an organism's physiology interacts with its environment including molecular to whole organism-level processes.

Prerequisites:  
BIOL 20A, BIOE 20B + BIOE 20C

5 Units

**See Page 6 to see how BIOE 136 can fulfill your major requirements.**

### **BIOE 134/L RESCHEDULED TO SUMMER SESSION 2 '18 AND SPRING '19**

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**BIOE 134/L Comparative Vertebrate Anatomy with Dr. Rita Mehta will not be offered in Fall 2018.** It is being offered in Session 2 this summer, and spring 2019.

### **BIOE 135/L OFFERED IN FALL 2018, NOT WINTER**

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BIOE135/L Plant Physiology will be offered in Fall 2018 instead of Winter 2019.

# COURSE UPDATES

## BIOE 82

### INTRO TO FIELD RESEARCH & CONSERVATION

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Interested in taking a 2-unit largely outdoor field course this spring and traveling around California? Enrollment by application and permission of instructor.

**Enrollment by application at:**

<https://www.eeb.ucsc.edu/academics/undergrad/courses-enrollment/courses-enrollment-qtr-enroll-updates.html>

## UNDERGRADUATE RESEARCH COURSES

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### BIOE 183W

Students may enroll directly but must have a faculty sponsor arranged and a completed undergraduate research contract on file with the department by first class meeting.

### BIOE 182F, 183L, 193, 193F, 195

Courses are offered Fall, Winter and Spring quarters. These courses do not appear in the schedule of classes. Enrollment is via undergraduate research contract. **For details on courses, including prerequisites, see: [undergrad.pbsci.ucsc.edu/eeb/undergrad-research/research-courses](http://undergrad.pbsci.ucsc.edu/eeb/undergrad-research/research-courses)**



# BIOE 136 <sup>\*NEW!\*</sup>

## Environmental Physiology

Explores how an organism's physiology interacts with its environment including molecular to whole organism-level processes. How do animals thrive in the most diverse regions of Earth and why are some more vulnerable to change than others?

### ECOLOGY & EVOLUTION BS

Physiology Core Course

or

1 Topical Elective

or

1 EEB General Elective

### PLANT SCIENCES BS

1 EEB General Elective

### MARINE BIOLOGY BS

1 Topical Elective

or

1 EEB General Elective

### BIOLOGY BA

Anatomy/Physiology

Core Course

or

1 Biology Elective

Prerequisites: BIOL 20A, BIOE 20B + 20C

5 units

TTh 8:25 - 10:00

Instructor: R. Dunkin



# BIOE 145

## Plant Ecology

An exploration of the ecology of plant form, function, distribution, abundance, and diversity. Topics include plant adaptations to environmental conditions, life history variation, competition, reproductive ecology, herbivory, and patterns of diversity. Lecture with discussions of original papers and independent field project.

**Prerequisites:** BIOL 20A, BIOE 20B + 20C,  
Entry Level Writing Requirement

5 units      TTh 9:50 - 11:25

**Instructor:** I. Parker

# BIOE 145L

## Plant Ecology Field

Hands-on exploration of the concepts and techniques of plant ecology. A combination of lab, greenhouse, and field-based exercises (irrespective of weather conditions). Statistical analysis and scientific writing. One required weekend field trip. Students are billed a materials fee.

**Prerequisites:** BIOL 20A, BIOE 20B + 20C,  
Entry Level Writing Requirement

5 units      Th 1:30 - 5:00  
**Concurrent Enrollment in BIOE 145 Required**

**Instructor:** I. Parker



# Summer SPOTLIGHT

**5/1** Enrollment opens!

**6/1** Priority Enrollment  
for Financial Aid

**6/25 - 7/27** Session 1  
(5 Weeks)

**6/28** Session 1 Deadline  
to Add Classes

**7/30 - 8/31** Session 2  
(5 Weeks)

**8/2** Session 2 Deadline  
to Add Classes

**6/25 - 8/17** 8 Week  
Session



# Summer WITH EEB

## Session 1

BIOE 20B Development & Physiology

BIOE 20C Ecology & Evolution

BIOE 107 Ecology (Online)

BIOE 122/L Invertebrate Zoology

## 8 Week

BIOE 125 Ecosystems of California (Online)

## Session 2

BIOE 75 Scientific Diving Certification

BIOE 109 Evolution (Online)

BIOE 127/L Ichthyology

BIOE 134/L Comparative Vertebrate Anatomy

## 2018 SUMMER FINANCIAL AID

Undergraduate Eligibility

### Cost

**\$281 per credit**

5 credits: \$1,405

10 credits: \$2,810

15 credits: \$3,535

**\$287\*** one time campus fee

\*2017 rate

### Save

Complete **15+** credits & receive a **\$680** discount.

Credits can be completed in one or more sessions.

## Enrollment Requirements

**6+ credits** to be considered for federal & state aid including a **Summer Pell Grant** of up to \$1,973 if eligible.

**10+ credits** to be considered for the \$2,200 **Summer University Grant**. Must be a CA resident.

## June 1 - Priority Enrollment

Enroll in summer classes by June 1 for priority financial aid packaging.

[financialaid.ucsc.edu](http://financialaid.ucsc.edu)

[summer.ucsc.edu](http://summer.ucsc.edu)





# BIOE 20B

## Development + Physiology

**Major Qualification Course!** Topics in morphology, physiology, development, genetics, and endocrinology selected to exemplify current issues and perspectives in organismic biology.

**Prerequisites:** BIOL 20A

5 units

MW 9:00 - 12:30

Instructor: R. Dunkin

# BIOE 20C

## Ecology + Evolution

**Major Qualification Course!** Introduction to ecology and evolution covering principles of evolution at the molecular, organismal, and population levels. Evolutionary topics include genetic and phenotypic variation, natural selection, adaptation, speciation, and macroevolution. Also covers behavioral, population, and community ecology including applied ecological issues.

**Prerequisites:** NONE!

5 units

MW 1:00 - 4:30

Instructor: B. Marinovic





# BIOE 122/L

## Invertebrate Zoology

An examination of invertebrates and their habitats. Must be taken concurrently with course 122L.

**Prerequisites:** BIOL 20A, BIOE 20B + 20C,  
Entry Level Writing Requirement

**BIOE 122 (5 units)**      **MW 9:00 - 12:00**

**BIOE 122L (2 units)**      **MW 1:00 - 4:30**

**Instructor: S. Hein**



# BIOE 127/L

## Ichthyology

An introduction to the biology of jawless, cartilaginous, and bony fishes—their classification, evolution, form, physiology, and ecology. Must be taken concurrently with BIOE 127L.

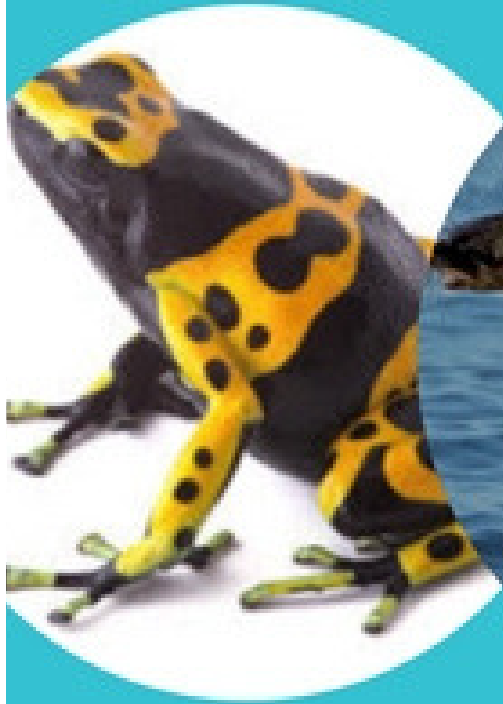
**Prerequisites:** BIOL 20A, BIOE 20B, BIOE 20C +  
Entry Level Writing Requirement

**BIOE 127 (5 units)**      **MW 9:00 - 12:30**

**BIOE 127L (2 units)**      **MW 1:00 - 4:30**

**Instructor: E. Garcia**





BIOE 134/L

# COMPARATIVE VERTEBRATE ANATOMY

Session 2 - July 30 - Aug 31

A course taught by a vertebrate, about vertebrates, for vertebrates. Hands-on training dissecting different vertebrates and learning about their skull, axial skeleton, and muscular systems.

Instructor: Rita Mehta

**Prerequisites: 20A, 20B, and 20C  
(instructor can be flexible)**

**Tue/Thu**

Lecture:

9 am - 12:30

Lab: 1-4 pm



# ECOLOGY AND EVOLUTIONARY BIOLOGY

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## Ecology and Evolutionary Biology Undergraduate Program



## OUR NEW WEBSITE

Have you checked out EEB's new website yet? Take a look and be sure to update your bookmarks. The new site is more streamlined, easier to navigate, and includes new features like:

- Major Maps
- Course updates + tips
- EEB Community: Events + News

## WE'RE ON Instagram!



**FOLLOW US**  
**@UCSC.EEB**

**ucsc.eeb** ▾

52 posts    147 followers    84 following

**EEB Advising**

UCSC EEB Advising  
 🌿🐟 Updates from Ecology & Evolutionary Biology Advising at University of California, Santa Cruz 🦉🌿  
 ✉️ Need help? Email us at [eebadvising@ucsc.edu](mailto:eebadvising@ucsc.edu)  
[www.eeb.ucsc.edu/academics/undergrad/index.html](http://www.eeb.ucsc.edu/academics/undergrad/index.html)

**MEAL PLAN HOLDERS:**  
 Pick up your meals TODAY in advance in anticipation of the AFSCME Labor Strike.

**PRINTING**  
 MAY | 4 PM  
 3 Courtyard

**JOIN US FOR AN AFTER**  
 TO MAKE FISH PRINTS FROM CAUGHT FISH  
 PAPER WILL BE PROVIDED  
 SHORTS WILL BE AVAILABLE

**STOP**  
 PLEASE DO NOT FEED BIRDS OR OTHER WILDLIFE  
 PLEASE DO NOT FEED BIRDS OR OTHER WILDLIFE  
 PLEASE DO NOT FEED BIRDS OR OTHER WILDLIFE





PC: Bernardi Lab



JOIN UCSC SCUBA CLUB!



PC: UCSC SCUBA Club

# SCUBA + SWIMMING AT UCSC

Did you know UCSC offers courses on campus to take you from swimming novice to a certified Scientific Diver?

Swimming and SCUBA diving are critically important skills for Marine Biologists. **Many employers also look for Scientific Diving Certification when looking for new grads to hire!**

If you want to dive at UCSC you must have your **Scientific Diving Certification (AAUS)**.

OPERS offers the required swim and SCUBA courses to prepare you for **BIOE 75 Scientific Diving Certification**.

 **A Scientific Diving Certification is required for:**

**BIOE 161 + 161L**  
Kelp Forest Ecology + Lab

**BIOE 159 - Sitka**  
Marine Ecology Field Quarter

**It's important to start your diving preparation early, so plan ahead!**

 Visit [ww2.ucsc.edu/sci-diving](http://ww2.ucsc.edu/sci-diving) to get started.





# Resources

## Learning Support

### LEARNING SUPPORT SERVICES

Learning Support Services (LSS) provides course-specific academic support services for all UCSC undergraduate students:

- Modified Supplemental Instruction (MSI)
- Small Group Tutoring
- Writing Tutoring
- Drop-In Tutoring
- Math Skills Workshops

Sign up for tutoring here: [lss.ucsc.edu](https://lss.ucsc.edu)

### DISABILITY RESOURCE CENTER (DRC)

The DRC provides a variety of accommodations and services to currently enrolled UCSC students to support them in making the most of their educational experience.

[drc.ucsc.edu](https://drc.ucsc.edu)

## Careers + Grad School

The UCSC Career Center has lots of resources to help you find an internship, create a resume, prepare for graduate school, find jobs, and more! **Schedule an appointment with a Career Coach in your MyUCSC portal and check out their online resources:**

[careers.ucsc.edu](https://careers.ucsc.edu)

## Your Well-being

College life can be challenging, and it's important to prioritize self-care and ask for help if you need it.

**If you are experiencing mental or emotional distress, or food, housing, or financial insecurity, UCSC Basic Needs can help you today.**

[basicneeds.ucsc.edu](https://basicneeds.ucsc.edu)