

ESYS 101 | Environmental Biology | Fall 2021

Dr. Julia Diaz and Dr. Jennifer Taylor

Tues/Thurs 12:30 - 1:50 pm, Hybrid Instruction

Students may choose to attend in person (P416 East, Outdoor Classroom) or remotely

DATE	LECTURE TOPIC	ASSIGNMENTS
Th Sep 23	1) Course Overview & Intro to Environmental Microbiology (JD)	Quiz 1 (pre assessment)
Tu Sep 28	2) Modern Tools for Environmental Microbiology (JD)	Report 1 Assigned Group Project 1 Assigned
Th Sep 30	3) Microbial Diversity (JD)	Quiz 2
Tu Oct 05	4) Microbial Trophic Dynamics I (JD)	Report Topic Due
Th Oct 07	5) Microbial Trophic Dynamics II (JD)	Quiz 3
Tu Oct 12	6) Microbial Biogeochemistry: Elemental Cycles (JD)	
Th Oct 14	7) Viruses in the Environment (JD)	Group Project 1 Due Quiz 4
Tu Oct 19	8) Microbial Communities Under Threat (JD)	
Th Oct 21	9) Microbes for Good (JD)	Quiz 5 Report 1 due
Tu Oct 26	11) Environmental Change (JT)	Report 2 assigned
Th Oct 28	12) Cells and Sensing the Environment (JT)	Quiz 6 Group Project 2 Assigned
Tu Nov 02	13) Environmental Physiology I: Osmoregulation (JT)	
Th Nov 04	14) Environmental Physiology II: Respiration (JT)	Quiz 7
Tu Nov 09	15) Environmental Physiology III: Circulation (JT)	Report Topic Due
Th Nov 11	<i>No class – Veterans Day</i>	
Tu Nov 16	16) Environmental Physiology IV: Thermoregulation (JT)	Quiz 8 Group Project2 Due
Th Nov 18	17) Environmental Physiology continued (JT)	Quiz 9
Tu Nov 23	18) Environmental Hormones (JT)	
Th Nov 25	<i>No class – Thanksgiving</i>	
Tu Nov 30	19) Animal Architecture (JT)	Quiz 10
Tu Dec 02	20) Biomimicry For A Healthy Planet (JT)	Report 2 Due

Class website: <http://canvas.ucsd.edu/> (syllabus, lectures, assigned papers, assignments, etc.)

Recommended textbook (not required): "Campbell Biology" (8th ed. 2008 or 9th ed. 2010 or 10th ed. 2013)

CONTACT INFORMATION

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Professor Jennifer Taylor

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<u>TA</u>	<u>email</u>	<u>Virtual Office Hours</u>
Jamee Adams	jcadams@ucsd.edu	During Section or by appointment
Michael Allen	m2allen@ucsd.edu	During Section or by appointment

Note: Please email your instructors and TA's any time you have questions and include "ESYS 101" in the subject line. We will try to respond to all emails within 24 hours, with possibly longer response times during weekends.

Discussion section times and locations:

Section	Time	Location	TA
A01	Wed 12:00 - 12:50 pm	Remote	Jamee
A02	Wed 1:00 – 1:50 pm	Remote	Jamee
A03	Fri 10:00 – 10:50 am	Remote	Mike
A04	Fri 11:00 – 11:50 am	Remote	Mike

You are not required to attend section, but you will find it beneficial as the TA's will review class material and answer questions about the assignments and suggested readings.

NOTE: Sections will start the week of Monday Sep 27th (week 1)

Hybrid modality: Students may choose to attend lectures in-person or remotely. Lectures will take place in-person in P416 East. Remote synchronous participation will be via Zoom. Lecture recordings will be posted to the Canvas website under My Media to accommodate remote asynchronous participation.

Masking policy: All campus members and visitors should have a mask with them at all times while on campus. Every student must be masked while indoors. In the outdoor classrooms, masks are not required, but are strongly encouraged. No eating or drinking is allowed in class or section, regardless of whether these are indoor or outdoor. Students should step outside the classroom to hydrate, if needed. The campus recommends the use of N-95 and KN-95 masks. A face covering/face mask DOES NOT include a scarf, ski mask, balaclava, bandana, gaiter, turtleneck, collar, plastic face shield, or single layer of fabric. Read more about COVID-19 campus safety (<https://returntolearn.ucsd.edu/return-to-campus/safety-requirements/index.html>).

Vaccine mandate: University policy requires, with few exceptions, that all students, faculty and staff be vaccinated against the COVID-19 virus before they will be allowed on campus. Individuals are required to show proof of vaccination to the University. Compliance with the mandate requires individuals to be fully vaccinated (two weeks after final dose) or have a medical exemption, a religious exception, a disability exception or a deferral. Read more about the vaccine mandate online (<https://returntolearn.ucsd.edu/vaccine-mandate/overview/index.html>).

Grading:

There will be ten quizzes, two short reports, and two small group projects.

Quizzes, 10 points each	= 100 points
Reports, 50 points each	= 100 points
Group projects, 25 points each	= 50 points

250 points

Quizzes:

There will be ten quizzes in this course. Quizzes will be available via the course website on Canvas starting at 2:00 PM on the date assigned, and students will have 24 hours to complete each quiz, unless otherwise noted. Important: once the quiz has been started, students will have 30 minutes to complete it. Quizzes will cover material taken directly from the prior week's lectures and will not be cumulative. Quizzes are closed book/closed notes and will consist of multiple-choice and short answer questions.

Reports:

You will be assigned two reports. For each report, you will be given a topic, perform literature searches on that topic, and write a short report consisting of no more than 3 pages (with 1.5 spacing). Detailed instructions for each report will be posted on the course web site. You will be required to submit your topic and references for approval ahead of time. Detailed instructions and a rubric will be provided. Reports are due by midnight on the assigned due date. Please submit a typed electronic copy via Canvas.

Group projects:

You will be assigned two group projects. Groups will consist of 4-5 students within the same TA section, which will be announced via the course website. You are responsible for making the arrangements to meet with your group in order to complete the projects. This can be done either in person or via Zoom or similar online platform. Detailed instructions for each project will be posted on the course web site. Projects are due by midnight on the assigned due date and must be submitted through Canvas.

Useful websites: (journal literature portals)

GoogleScholar: <http://scholar.google.com/>

PubMed: <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?tool=cdl&holding=ucsdlib>

To prepare for the quizzes:

1. Attend the lectures! *Nearly all questions will come directly from the lectures.*
2. Read the related material in the text as needed. Students in this class have a broad range of backgrounds in biology, so some students will need to do more reading in the text than others.
3. Attend section regularly as you will be able to ask questions about the lectures.
4. Do not cheat! *Disciplinary steps will be taken when cheating is discovered. These steps may include failing the quizzes and misconduct reporting. (argh!)*

Based on prior experience, the students who do best regularly attended lectures and sections and read the textbook (as needed) before attending lecture/sections.

Quiz inquiries:

Regrade requests must be submitted no later than one week after the quiz scores are reported on the course website. Prepare a written explanation, with documentation if possible (i.e. with references to text &/or lecture notes), and deliver the query to your TA. If we find that a question has more than one answer or should be discarded after the quizzes have been graded, all of the quizzes will be re-graded using the new answer key.

A MESSAGE FROM OUR FRIENDS AT THE UCSD ACADEMIC INTEGRITY OFFICE:*Statement of Academic Integrity:**

Students are expected to do their own work, as outlined in the UCSD Policy on Integrity of Scholarship <<http://www-senate.ucsd.edu/manual/appendices/app2.htm>>. Academic misconduct will not be tolerated. This includes, but is not limited to, cheating, plagiarism, and collusion. Any student who engages in suspicious conduct, e.g. cell phone activity during exams, will be confronted and subjected to the disciplinary process. Cheaters will receive a failing grade on the exam, and/or in the course. They may also be suspended from UCSD pursuant to University guidelines. (Translation: just don't do it!)