

ESYS 101 | Environmental Biology | Fall 2024

Dr. Jeff Bowman and Dr. Jennifer Taylor

Tues/Thurs 11:00 - 12:20 pm Center Hall 109, In-person only

DATE	LECTURE TOPIC	ASSIGNMENTS
Th Sep 26	1) Course Overview & Intro to Environmental Microbiology (JB)	Quiz 1 (pre assessment)
Tu Oct 01	2) Modern Tools for Environmental Microbiology (JB)	Report 1 Assigned
Th Oct 03	3) Microbial Diversity (JB)	
Tu Oct 08	4) Microbial Trophic Dynamics I (JB)	Quiz 2
Th Oct 10	5) Microbial Trophic Dynamics II (JB)	Report Topic Due
Tu Oct 15	6) Microbial Biogeochemistry: Elemental Cycles (JB)	Quiz 3
Th Oct 17	7) Viruses in the Environment (JB)	
Tu Oct 22	8) Microbial Communities Under Threat (JB)	Quiz 4
Th Oct 24	9) Microbes for Good (JB)	
Tu Oct 29	10) Catch up and Review (JB)	Quiz 5 Report 1 due
Th Oct 31	11) Introduction, Environmental Change (JT)	Report 2 assigned
Tu Nov 05	12) Cells and Sensing the Environment (JT)	Quiz 6
Th Nov 07	13) Environmental Physiology I: Osmoregulation (JT)	
Tu Nov 12	14) Environmental Physiology II: Respiration (JT)	Quiz 7 Report Topic Due
Th Nov 14	15) Environmental Physiology III: Circulation (JT)	
Tu Nov 19	16) Environmental Physiology IV: Thermoregulation (JT)	Quiz 8
Th Nov 21	17) Environmental Physiology continued (JT)	
Tu Nov 26	18) Environmental Physiology continued (JT)	Quiz 9
Th Nov 28	<i>No class – Thanksgiving</i>	
Tu Dec 03	19) Animal Architecture (JT)	
Th Dec 05	20) Biomimicry for a healthy planet (JT)	Quiz 10 Report 2 Due

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

Textbook: None (optional: "Campbell Biology" 8th ed. 2008 or 9th ed. 2010 or 10th ed. 2013)

CONTACT INFORMATION

Professor Jeff Bowman

Email: jsbowman@ucsd.edu

Office Hours: 8:00 Thursday

Office: <https://ucsd.zoom.us/j/5408338241>

Phone: (858) 534-2570 (by appointment only)

Professor Jennifer Taylor

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Office Hours: after lecture or by appointment

Office: 4120 Hubbs Hall (Scripps Institution of Oceanography campus)

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TA

Elizabeth Connors

Kanisha Contractor

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Office Hours

by appointment

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	Mon 2:00 - 2:50 pm	PODEM 1A22	Kanisha
A02	Mon 3:00 – 3:50 pm	PODEM 1A22	Kanisha
A03	Fri 8:00 – 8:50 am	APM 2301	Elizabeth
A04	Fri 9:00 – 9:50 am	APM 2301	Elizabeth

Attendance: This course is offered in-person only. Recordings or podcasts will not be available. Material for quizzes will come directly from lectures, so it is in your best interest to attend each class. Lecture powerpoint slides will be posted on Canvas prior to lecture. If you are absent for lecture, it is advised that you borrow notes from a classmate to amend the lecture slides. 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 30 (week 1)

Grade scale: Your final grade will be based on the total number of points you receive.

100 - 98%	A+	97 - 93%	A	92 - 90%	A-
89 - 87%	B+	86 - 83%	B	82 - 80%	B-
79 - 77%	C+	76 - 73%	C	72 - 70%	C-
		69 - 60%	D		
		<60%	F		

Grading:

There will be ten quizzes and two short reports.

Quizzes, 10 points each

Reports, 50 points each

= 100 points

= 100 points

Total = 200 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.

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. Attend section regularly as you will be able to ask questions about the lectures.
3. 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 attend lectures and sections.

Late policy:

Quizzes close promptly at 2:00 pm on the due date, so please be sure to complete them on time. Missed quizzes can only be made up with a valid excuse and permission from instructor. Should you have technical issues while completing the quiz, please reach out to your instructor immediately. Late reports will incur a penalty of 10 pts per day beyond the due date.

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 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!)