

GS 108: Oceanography

Instructor Information and Availability

Andrew Lade

ladea@linnbenton.edu

Office hour: Monday 3:20- 4:20 (or by appointment)

Office: MH 111

Course Information

Course name: GS 108: Oceanography

Scheduled time/days: 2:00- 3:20 on Monday and Wednesday, 2:00- 3:50 on Friday

Classroom: MH 114

Course Materials

Required:

- Textbook: Essentials of Oceanography by Trujillo and Thurman (12th ed., older editions OK!). (Copies on two-hour reserve at the LBCC Library.)
- GS 108 lab manual

Course Description

Introductory lab science course that examines the four major categories of oceanographic study: geological, physical, chemical and biological. Emphasizes the geological and geophysical aspects of the sea floor; physical and chemical properties of sea water, waves, tides, ocean circulation and currents; marine ecosystems; and ocean utilization. Prerequisite: Math 075. Counts as Physical Science Perspective for AS/OSU and Science with Lab for AAOT. Articulates as OC 201 Oceanography at OSU.

Student Learning Outcomes

1. Describe key events in the history of science, with particular emphasis on oceanography, and their impact on society.
2. Describe and apply the process of scientific inquiry.
3. Solve scientific problems using quantitative methods.
4. Describe the geological characteristics of the seafloor.
5. Explain interactions between the physical, chemical, and biological ocean systems.

Class Policies

Behavior and Expectations

You are held accountable to the [Student Code of Conduct](#), which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct. Avoid even the appearance of dishonesty. The effectiveness of our joint academic endeavor depends upon a basic commitment to honesty by all of us; therefore, I will not hesitate to report violations in order to preserve the value of a Linn Benton education for others. If you pretend to be original when you are borrowing someone else's ideas, you are deceiving others.

Guidelines for communication

Most of our out-of-class communication will occur through e-mail. Please let me know if you would like to schedule a time to meet or would like to attend office hours. If you are having difficulties with the material or being successful in this class, please see sooner rather than later. I want you to be successful!

Use of cell phones

Do not use cell phones in class unless told otherwise.

Attendance/Tardiness Policy

You should attend every class. If you do miss a class, it is your responsibility to find out what you have missed. Generally attendance corresponds to performance (and enjoyment), meaning students who attend generally earn higher grades. I encourage you to find someone you can get the notes from.

Name: _____

Email: _____

Testing

We will have three tests, two during the semester and a final examination.
If you miss a test, you will have to make it up before the following class meeting.
The final exam is on 12/6 from 8:00- 9:50 AM in this room, MH 114.

Grading

Lab assignments (8): 100 points each

Tests (2): 400 points each

Final Exam: 600 points

Reading quizzes (10): 10 points each

Possible points = ~2300 pts

*We may have additional in-class assignments. These could vary between 10-30 points.

The grade will be calculated by dividing all earned points by all possible points.

Final Grade Calculation:

- A = 90-100% Excellent Work
- B = 80-89% Good Work
- C = 70-79% Average Work
- D = 60-69% Poor Work
- F = 0-59% Failing Work

Letter Grade	Percentage	Performance
A	90-100%	Excellent Work
B	80-89%	Good Work
C	70-79%	Average Work
D	60-69%	Poor Work

F	0-59%	Failing Work
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Late Assignment Policy

Late assignments will be penalized three points for each day late and will be capped at 40 points. An assignment is late if you have not turned it in by the beginning of class on the due date. You must complete all assignments before the final exam.

Expect a lab assignment to be due every Monday. Labs cannot be made up, but I will drop everyone's lowest lab grade.

Quizzes cannot be taken after the specified date without a valid excuse accompanied with documentation. Missed quizzes will receive a 0.

College Policies

LBCC Email and Course Communications

You are responsible for all communications sent via Moodle and to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. You may access your LBCC student email account through Student Email and your Moodle account through Moodle.

Disability and Access Statement

Students who may need accommodations due to documented disabilities, who have medical information that the instructor should know, or who need special arrangements in an emergency should speak with their instructor during the first week of class. If you believe you may need accommodations but are not yet registered with CFAR, please visit the CFAR website at www.linnbenton.edu/cfar for steps on how to apply for services or call 541-917-4789.

Statement of Inclusion

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce.

Title IX Reporting Policy

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](#) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

Campus Police/Emergency Resources

You may review emergency services and resources at the LBCC [Public Safety website](#). Campus

Safety can be reached using the 'Code 2' button on any campus phone or by dialing x411 on campus or (541) 917-4440 off campus. Dial 911 for off campus emergencies.

Public Safety link for printed syllabus:

<https://www.linnbenton.edu/future-students/stuff-parents-want-to-know/public-safety>

Changes to the Syllabus

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class or online through a Moodle Announcement or e-mail.

Class Calendar or Schedule

Week	Readings	Topic	Lab
1	Ch 1	Navigation and History	Maps
2	Ch 2	Plate Tectonics	Geology of the Seafloor
3	Ch 4	Marine Sediments	Field Trip
4	Ch 5	TEST I Properties of Seawater	Water Properties
5	Ch 6	Atmospheric Circulation and Tropical Cyclones	Coriolis Effect
6	Ch 7	El Nino and NAO	Ocean Currents
7	Ch 9 (And Ch 8)	TEST II Tides	NO CLASS
8	Ch 12	Marine Life and Adaptations	Primary Productivity
9	Ch 13	Energy Flow in Ecosystems: Coral Reefs	NO CLASS
10	Ch 16	Climate Change: Pressures on Ecosystems	Ocean Acidification
Final		FINAL EXAM (12/6, 8:00- 9:50 AM)	