Geo 1080 X01 and X51 Syllabus

Use the canvas version to access the hyperlinks.

Instructor Contact Information

Name: Emily Lamas
Email: Emily.Lamas@uvu.edu or canvas message
Office Hours: Office Hours are available on Teams each week (usually on Thursdays, but days and time may very slightly from week to week). The next office hour time is posted on the homepage. Other times are available upon request. Email if you need to meet with me outside of office hours.

Course Description

Introduces the origin and development of the oceans, marine geology and its effect on life in the seas. Discusses waves, tides, currents, and their impact on shorelines, the ocean floor, and basins. Examines physical processes as they relate to oceanographic concepts. Includes media as an alternative to the actual oceanic experience. Upon completion, students should have a basic knowledge and appreciation of the ocean's impact to the world's ecology.
This fulfills a Physical Science General Ed requirement.

Programs that reference this course:

- Earth Science Education, B.S.
- IS Emphasis in Earth Science
- IS Emphasis in Environmental Studies
- Earth Science, Minor
- Environmental Studies, Minor
- Physical Science, A.S.

Course Outcomes

Upon successful completion of this course, students will be able to:

- Explain the theory of plate tectonics and its relationship to the formation of world oceans and the major seafloor features.
- Describe atmospheric and oceanic circulation systems, their interconnections, driving forces, and impact on human life.
- Summarize the major physical and chemical properties of seawater and how each affects marine life.
- Explain principles of waves and tides, including impacts on coastal processes and marine ecosystems.
- Identify marine ecology, taxonomy, diversity, and productivity.
- Evaluate the interaction between humans and the ocean.
- Discuss the importance of oceanography in global initiatives and political decisions for the present and future.

Prerequisites and Needed Skills

There are no prerequisites for this course.

Technology Expectations: Students should have basic computer literacy skills including Microsoft Office apps

Materials, Fees and Technology Tools

- **Students are required to purchase the online textbook with access code**

Trujillo, A.P., Thurman, H.V., 2020. *Essentials of Oceanography*, 13th Edition. Pearson.
ISBN-13: 978-0-13-548679-5
ISBN-10: 0-13-548679-3

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    - You may purchase the textbook and access code through the UVU bookstore or you may purchase the textbook and access code directly from the publisher. To purchase from the publisher, click on "MyLab and Mastering" on the left menu here in canvas and you will see a place to either enter the code (use this part if you purchase the books from the bookstore) or to use a credit card to purchase the books (see photo below). You need both the textbook and the online student access. **I strongly recommend purchasing either from the UVU bookstore or the publisher link in canvas and not from another**

vendor to ensure that you have the correct textbook and online access. Also, to access MyLab and Mastering, use the link in the menu here in canvas- not an email or anywhere else.

- Students will also need a calculator. Phone calculators are fine. If you need a calculator, there is a link to an online scientific calculator on the Canvas course homepage.

How This Course Works

Course Mode:

This course is an asynchronous online course. This means that you **will not** be expected to meet together in a classroom or online at a specific time. All of your coursework will be found/linked online in Canvas. From the UVU catalog https://www.uvu.edu/catalog/current/policies-requirements/academic-policies-and-standards.html three hours of course work per week are, on average, expected to earn one semester credit hour; In other words- one credit hour requires a minimum of 3 hours of work a week. This is a 3 credit class- so you will need to plan to spend ~9 hours a week on course activities to earn the 3 credits.

Course Overview:

Oceanography is the study of the world's oceans. The oceans provide humans with abundant food, jobs, natural resources, and recreation opportunities. They hold vast amounts of untapped energy that may someday be harnessed for human consumption. They control the major global climate belts and play a major role in buffering climate change. Governmental policies regarding oceans, from local to international, depend on a scientific understanding of how they work in order to ensure that proper decisions are being made. This course examines the basic geological, chemical, biological, physical, and meteorological principles that govern the oceans and discusses the importance of understanding these principles to societal needs. Topics focus on origin of ocean basins, basic chemistry of seawater, physics of waves and currents, coastal processes, interactions between the atmosphere and oceans, climate change, ocean pollution, nutrient distribution, and basic ocean ecology.

Description of how course works:

- This course is organized into weekly modules. Each week you will have to complete one module. Of course, feel free to work ahead and complete more modules per week if you'd like. Each module contains an interactive lecture, an online activity, a quiz, and a discussion post.
- The most effective way to complete each unit is to do the assignments in the following recommended order: 1) read the assigned chapter; 2) complete the lecture slides; 3) complete the online activity, quiz, and discussion assignment- usually in that order.
- I know things happen in life, that is why we will drop some assignments in this class to accommodate certain unforeseen situations. The lowest lecture, quiz, discussion, and exam will be dropped from your grade. The lowest online activity and final exam **will not** be dropped.
- As a student you can expect this course to challenge and engage you as a learner. You will be expected to engage in class discussions, complete assignments as required, and succeed as a student in this online course.

Third Party Usage

This course utilizes Pearson's My Lab and Mastering. To access the course materials, you will need to purchase a code for the textbook and publisher site from the UVU bookstore.
Follow these instructions to access the publisher materials once you have purchased the code.
My Lab and Mastering Terms of Use
My Lab and Mastering Privacy Policy

Student Responsibilities:

- Start class the first week of the term.
- **Be accountable by setting aside regular time each week to complete course activities and assignments on time as noted per the due dates**.
- Learn how to use Canvas including communication tools (e.g. discussion, Canvas inbox, etc.). If you have technology-related problems contact the Service Desk
- Abide by ethical standards. Your work must be your own.

- Contact your instructor as early as possible if an emergency arises. Do NOT wait until the last minute to ask for an extension.

Instructor Responsibilities:

- Respond to emails within one business day. If multiple emails are received regarding the same question or concern, they may be responded to with an announcement to the entire class.
- Provide timely, meaningful and constructive feedback on assignments.
- Facilitate an effective learning experience.
- Refer students to appropriate services for issues that are non-course content specific. For instance, technical issue, writing labs, accessibility services, etc.
- Mentor students through the course.

Inclusion Statement

Your experience in this class is important to me. As your instructor, it is my intent to create an inclusive and equitable climate that fosters a safe and successful learning environment. My main goal is to provide you with equal opportunities to succeed in this class. Please feel free to contact me if you would like to talk about any suggestions and/or concerns.

Grading and Late Work Statement

Grading Scale:

The following grading standards will be used in this class:

94.0% - 100%	A	87.0% - 89.9%	B+	77.0% - 79.9%	C+	65.0% - 69.9%	D+	Below 55%	E
90.0% - 93.9%	A-	83.0% - 86.9%	B	73.0% - 76.9%	C	59.0% - 64.9%	D		
		80.0% - 82.9%	B-	70.0% - 72.9%	C-	55.0% - 58.9%	B-		

Late Work Statement:

Late work is accepted for one week past the deadline only. No penalties. (Note: The last week of assignments will be accepted until the final exam deadline only).

Extra Credit

Each student may submit 40 points of extra credit. Please send extra credit in a canvas message or email to Emily.Lamas@uvu.edu. See Extra Credit- due via email or canvas message by Friday, August 9 at 11:59 pm for more details.

Attendance

You should maintain an active presence in this online class. This means that you will participate in discussions every week by posting original content, and also commenting on at least two group members. Detailed directions are provided for each discussion.

Assignment and Assessment Descriptions

Assignments:

- **Lectures**

These lectures consist of interactive slides where you can watch videos, animations, and complete interactive activities. The slides will help you to understand the core of the topics in each chapter. You have unlimited attempts at the questions in the lectures and the highest score counts towards your grade. Y*our lowest lecture score will be dropped from your final grade.*

- **Online Learning Activities**

These exercises are designed for to apply concepts from the readings to real life scenarios of earth system science. These assignments will have you collecting and analyzing data, calculating results, and communicating ideas through writing and other media. You have one attempt at the online learning activities*. The lowest online activity score will **not** be dropped because the activities have varying point values each week.*

- **Quizzes**

The quizzes are designed to keep you on track with the concepts from each chapter so that you are better prepared for the exams. They are open book and based on the objectives for each chapter- as are the exams. (FYI- chapter objectives are found on each week's start here page). You have unlimited attempts at the quizzes and only the highest scores will be saved. Y*our lowest quiz score will be dropped from your final grade.*

- **Discussions**

Discussions present opportunities to explore topics together as a class. Posts to the discussion should add significantly to the conversation and support your point of view. *Comments that do not add significantly to a discussion will receive no credit.* It is okay to disagree in a discussion. In fact, much learning happens when we disagree. However, we need to be respectful and keep our online classroom a safe place to learn. **Discussions posts are due each Friday with comments due by Sunday each week.** *Your lowest discussion score will be dropped from your final grade.*

- **Midterm Exams**

Midterm exams are periodic summative assessment to check your progress during the semester. Midterm exams consist of multiple choice, matching, numerical answer and short answer questions and will be open-book and open-notes, but timed. They are based on the objectives for each chapter. You have one attempt to complete the questions. *One lowest midterm exam score will be dropped from your final grade.*

- **Cumulative Final Exam**

The cumulative final exam is the summative assessment for what you have learned during the semester. The cumulative final exam consists of multiple choice and short answer questions and will be open-book and open-notes, but timed. You only have one attempt for the final, so make sure you are well-prepared for it before taking it. *The cumulative final exam will not be dropped.*

Academic Honesty and Integrity and AI use

As explained in UVU's Student Rights and Accountabilities page, all students are expected "to maintain absolute integrity and high standards of individual honesty in academic work, and to observe a high standard of conduct for the academic environment." Utah Valley University expects all students to maintain integrity and high standards of individual honesty in academic work, obey the law, and show respect for others. Students of this class are expected to support an environment of academic integrity, have the right to such an environment, and avoid all aspects of academic dishonesty. Examples of academic dishonesty include plagiarizing, faking of data, sharing information during an exam, discussing an exam with another student who has not taken the exam, submitting an assignment that was authored in whole or in part by someone other than you, including an AI chat bot, and/or cheating in any form.
Plagiarism has occurred if you:

- Use the exact wording of another author or source in such a manner that it appears to be your own, regardless of the form in which those words originally appeared (e.g., a book, article, lecture, web site, speech, graphic, or any other form such as an AI text generator)
- Paraphrase (put into your own words) another author's wording in a manner where the language and/or syntax is too similar to the original passage and is not properly cited
- Fail to clearly acknowledge the partial or full authorship of someone else when submitting work
- Fail to cite or quote textual resources properly, despite the instructor's attempts at educational intervention
- Fabricate false information that is not corroborated by the actual research used on a writing project
- Have someone else, paid or otherwise, write your paper or use a paper mill site that contains ready-to-use papers written by other people
- Generate and submit a paper using artificial intelligence, such at ChatGPT

While the above actions can happen with intentionality to deceive, plagiarism can also happen accidentally (due to careless resource use, not using proper citation methods, and not understanding the conventions of our chosen style guide). Though intentional vs accidental is often a judgment call for an instructor, it's important to note that accidental plagiarism is still plagiarism—a serious need to address the incident arises regardless. Though the resulting consequences may vary based on the degree of intentionality, any form of plagiarism will be addressed with equal seriousness.

To be clear, copying the exact wording of an AI chatbot is considered plagiarism and means that a student will be held accountable for violating academic integrity. Although many citation guides are already presenting ways to properly use

and cite AI, we do not currently believe that citing AI in your work is in line with the standards of academic writing that value knowing the exact author(s) or sources that informed your writing.
In keeping with UVU policy, evidence of academic dishonesty may result in a failing grade in the course and disciplinary review by the college. Academic dishonesty includes, in part, using materials obtained from another student, published literature, copying from an AI chat bot, and the Internet without proper acknowledgment of the source. Additional information on this topic is published in the student handbook and is available on the UVU website. Any student caught cheating will receive, at minimum, zero points on that particular assignment for the first offense. A second offense can result in failing the course and will entail an incident report filed with the Student Conduct and Conflict Resolution office as, at a minimum, an informational item and potentially an item for investigation, resolution, or other.

UVU Policies and Resources

Accessibility Services

- Students needing accommodations due to a disability, including temporary and pregnancy accommodations, should contact Accessibility Services at accessibilityservices@uvu.edu or 801-863-8747 located in LC 312. Deaf / Hard of hearing students who are already approved for accommodations and need to request ASL interpreters, transcription services, or closed captioning please email dhhservices@uvu.edu .

Campus Resources

Technology Support Services

For 24/7 technical support contact Instructure's Canvas Support Live Chat
(385) 204-4930 (Available 24/7)
UVU's Service Desk for technology support: https://www.uvu.edu/servicedesk/

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Week	Reading	Assignments
Week 1: May 8-12 **Introduction to Planet Earth**	Read Chapter 1 "Introduction to Planet Earth"	• Lecture on Planet Earth • Online Activity • Quiz on Planet Earth • Discussion - Class Introduction
Week 2: May 13-19 **Plate Tectonics and the Ocean Floor**	Read Chapter 2 "Plate Tectonics and the Ocean Floor"	• Lecture on Plate Tectonics and the Ocean Floor • Online Activity • Quiz on Plate Tectonics and the Ocean Floor • Discussion - Plate Tectonics
Week 3: May 20-26 **Marine Provinces**	Read Chapter 3 "Marine Provinces" *Last day to drop and not have this class show on your transcript is Wed, May 29.	• Lecture on Marine Provinces • Online Activity • Quiz on Marine Provinces • Discussion - Marine Provinces
Week 4: May 27-June 2 **Marine Sediments** **Exam #1 on ch 1-3 due June 2**	Read Chapter 4 "Marine Sediments" *Last day to drop and not have this class show on your transcript is Wed, May 29.	• Lecture on Marine Sediments • Online Activity • Quiz on Marine Sediments • Discussion - Marine Sediments • Exam 1 on chapters 1-3
Week 5: June 3-9 **Water and Seawater**	Read Chapter 5 "Water and Seawater"	• Lecture on Water and Seawater • Online Activity • Quiz on Water and Seawater • Discussion - Water and Seawater
Week 6: June 10-16 **Air-Sea Interaction**	Read Chapter 6 "Air-Sea Interaction"	• Lecture on Air-Sea Interaction • Online Activity • Quiz on Air-Sea Interaction • Discussion - Air-Sea Interaction
Week 7: June 17-23 **Ocean Circulation** **Exam #2 on ch 4-6 due June 23**	Read Chapter 7 "Ocean Circulation"	• Lecture on Ocean Circulation • Online Activity • Quiz on Ocean Circulation • Discussion - Ocean Circulation • Exam 2 on chapter 4-6

Week	Reading	Assignments
Week 8: June 24-30 **Waves and Water Dynamics**	Read Chapter 8 "Waves and Water Dynamics"	• Lecture on Waves and Water Dynamics • Online Activity • Quiz on Waves and Water Dynamics • Discussion - Waves and Water Dynamics
Week 9: July 1-7 **Tides**	Read Chapter 9 "Tides" *Last day to withdraw is Monday, July 8.	• Lecture on Tides • Online Activity • Quiz on Tides • Discussion - Tides
Week 10: July 8-14 **Beaches, Shoreline Processes, and the Coastal Ocean** **Exam #3 on ch 7-9 due July 14**	Read Chapter 10 "Beaches, Shoreline Processes, and the Coastal Ocean" *Last day to withdraw is Monday, July 8.	• Lecture on Beaches, Shoreline Processes, and the Coastal Ocean • Online Activity • Quiz on Beaches, Shoreline Processes, and the Coastal Ocean • Discussion - Beaches, Shoreline Processes, and the Coastal Ocean • Exam 3 on chapters 7-9
Week 11: July 15-21 **Marine Pollution**	Read Chapter 11 "Marine Pollution"	• Lecture on Marine Pollution • Online Activity • Quiz on Marine Pollution • Discussion - Marine Pollution
Week 12: July 22-28 **Marine Life and the Marine Environment**	Read Chapter 12 "Marine Life and the Marine Environment"	• Lecture on Marine Life and the Marine Environment • Online Activity • Quiz on Marine Life and the Marine Environment • Discussion - Marine Life and the Marine Environment
Week 13: July 29-Aug 4 **Biological Productivity and Energy Transfer** **Exam #4 on ch 10-12 due Aug 4**	Read Chapter 13 "Biological Productivity and Energy Transfer"	• Lecture on Biological Productivity and Energy Transfer • Online Activity • Quiz on Biological Productivity and Energy Transfer • Discussion - Biological Productivity and Energy Transfer • Exam 4 on chapters 10-12
Week 14: Aug 5-9 **Animals of the Pelagic Environment**	Read Chapter 14 "Animals of the Pelagic Environment"	• Interactive Lecture on Animals of the Pelagic Environment • Online Activity • Quiz on Animals of the Pelagic Environment

Week	Reading	Assignments
		• Discussion - Animals of the Pelagic Environment

Final Exam- **due Friday, August 9**

Extra credit will be accepted up until Friday, August 9 via email to Emily.Lamas@uvu.edu or canvas message.