

The
University of
Texas at Tyler

Spring 2023

GEOL 3314-001: Oceanography and Meteorology

Class Meetings: Monday at 6:00 PM - 8:45 PM in Ratliff Building South Room 2024

Instructor

Dr. Jenny Rashall

Contact Info

Email:

jrashall@uttyler.edu

Office Hours via Zoom:

W/Th 2:00 PM-3:00 PM

or by appointment

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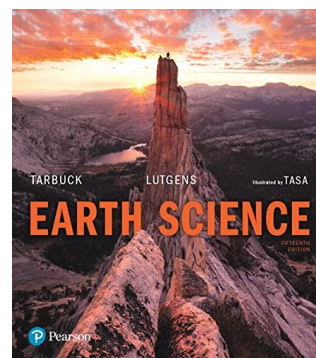
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Course Description:

This course consists of an introduction to Oceanography (50%) and an introduction to Meteorology (50%). Oceanography utilizes biology, chemistry, physics, and geology to study all aspects of the world's oceans. This course will focus primarily on the physical features of the oceans. Meteorology is the study of Earth's weather and climates. This course will look at the properties of the atmosphere, how and why different weather events occur, as well as long-term climate change. There are no prerequisites.

Materials:

The recommended textbook for this course is Earth Science (15th edition) by Edward J. Tarbuck and Frederick K. Lutgens, ISBN-10: 0-134-54353-X, ISBN-13: 978-0-134-54353-6. The textbook is NOT REQUIRED, but some students might find it provides useful reinforcement to the topics discussed in class. PowerPoint slides, papers, videos, and other materials will be distributed throughout the semester via Canvas.



Student Learning Outcomes:

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

- 1) Discuss the Theory of Plate Tectonics and how it impacts the Earth's oceanic and atmospheric currents. (Critical Thinking, Communication Skills, Empirical and Quantitative Skills)
- 2) Analyze concepts including energy, heat, circulation, density, and time in context of Oceanography and Meteorology. (Critical Thinking, Empirical and Quantitative Skills)
- 3) Identify variations in physical features of the world's oceans. (Critical Thinking, Empirical and Quantitative Skills)
- 4) Collaborate with classmates to classify various phenomena related to Oceanography and Meteorology. (Critical Thinking, Communication, Empirical and Quantitative Skills, Teamwork)
- 5) Discuss complex weather events and identify steps leading to development. (Critical Thinking, Communication)
- 6) Investigate scientific evidence related to climate change. (Critical Thinking, Empirical and Quantitative Skills)



"Knowledge empowers people with our most powerful tool: the ability to think and decide."

-Seymour Simon



"Oceanography is a terrific career because gradually we seem to be coming around to realize that we had better become acquainted with the seventy percent of our planet that is covered by water as we are with the dark side of the moon."

-Louis Agassiz

Canvas:

I will be using Canvas throughout the semester to post various course materials, including the syllabus, lecture PowerPoint slides, videos, or papers. I will also be posting announcements regularly regarding the course. Any corrections, date changes, reminders, or hints/tips for assignments will be posted in announcements. Weekly quizzes and discussions will be completed via Canvas.



Grading:

All grades will be updated throughout the semester in Canvas. If you would like to meet with me to discuss your grade in detail, I am always happy to do so!

Final grades will be calculated as follows:

- ◇ 4 Exams (15% each, 60% total)
- ◇ 9 Quizzes (2% each, 18% total)
- ◇ 6 Discussions (2% each, 12% total)
- ◇ Project (10% total)

We will tentatively be following a standard 90/80/70/60 grading scale, but that may be adjusted at my discretion based on overall class performance.

Exams (60% of final grade):

Four exams (including the final exam) will be administered in-person during the scheduled lecture time. Dates for the four exams are included in the course schedule. Exams will cover material from lecture PowerPoints and any additional resources provided through Canvas as "required materials." Exams are not cumulative - not even the final exam - and will only include the content covered following the previous exam. Exam questions might include: multiple choice, fill-in-the-blank, true/false, matching, ordering, labeling images, and short answer. All smart devices must be put away during exams.

Quizzes (18% of final grade):

Eight quizzes will be administered via Canvas weekly throughout the semester. Each Saturday night at 11:59 PM, a quiz covering the previous week's content will be due. We are going to cover a lot of information this semester, and the quizzes are intended to help you stay up to date with the content as we approach each exam. The content for the quizzes will include lecture material and any additional required weekly readings. In some cases, an in-class activity might account for a portion of the weekly quiz grade - these assignments will be announced during class, and students will be allowed to work together and ask questions. There will be no quizzes assigned on the week leading up to an exam.

Discussions (12% of final grade):

Seven discussions will be administered via Canvas throughout the semester. The discussions are meant to allow you each to conduct independent research and think critically about the prompts provided. Discussion responses should be written in your own words. Responses that have been copied and pasted from other sources will earn a 0. Each discussion will have a minimum word count required for full-credit consideration, and might have a required number of peer responses. Be sure to read the instructions carefully!

Project (10% of final grade):

Each student will complete an individual project that will consist of a 3-4 minute recorded lecture, including a PowerPoint and audio, over an oceanography or meteorology topic of the students' choosing. Topics must be approved by me. Deadline for topic approval and submission of the final project can be found in the schedule below.

General Course Policies:

- ◇ All students have the opportunity to make up a missed exam, regardless of the reason for missing. Exam make-ups will be completed on Monday, April 17th, 2023 at 5:00 PM.
- ◇ Students are expected to attend each class to complete lecture notes and in-class assignments in anticipation of weekly quizzes. Only students with officially excused absences will be allowed to make up missed quizzes or in-class activities. Officially excused absences include university-related travel, illness, death in the family, or other situations that will be considered on a case-by-case basis. It is necessary for the student to contact the instructor regarding absences or missed assignments in a timely manner.
- ◇ Class assignments should be completed by the assigned deadlines. No late work will be accepted without approved documentation.
- ◇ Although I encourage students study for exams together and communicate during in-class activities, assignments submitted via Canvas should all be completed independently. Collaboration on discussions or weekly quizzes is considered a violation of the UT Tyler Honor Code.

UNIVERSITY POLICIES

Student Academic Conduct:

Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

i. "Cheating" includes, but is not limited to:

- copying from another student's test paper;
- using, during a test, materials not authorized by the person giving the test;
- failure to comply with instructions given by the person administering the test;
- possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed "crib notes". The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- collaborating with or seeking aid from another student during a test or other assignment without authority;
- discussing the contents of an examination with another student who will take the examination;
- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
- substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
- paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
- falsifying research data, laboratory reports, and/or other academic work offered for credit;
- taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
- misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.

ii. "Plagiarism" includes, but is not limited to, the appropriation, buying, receiving as a gift, or obtaining by any means another's work and the submission of it as one's own academic work offered for credit.

iii. "Collusion" includes, but is not limited to, the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any section of the rules on scholastic dishonesty.

iv. All written work that is submitted will be subject to review by plagiarism software.

University Policies Continued

UT Tyler Honor Code

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Campus Carry

We respect the right and privacy of students 21 and over who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed.

More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>

UT Tyler a Tobacco-Free University

All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors. Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products. There are several cessation programs available to students looking to quit smoking, including counseling, quit lines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free.

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar. Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract. The Census Date is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- ◇ Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- ◇ Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- ◇ Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- ◇ Being reinstated or re-enrolled in classes after being dropped for non-payment
- ◇ Completing the process for tuition exemptions or waivers through Financial Aid

Student Absence Due to Religious Observance:

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities:

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement:

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit.

Disability Services:

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychiatric disabilities. If you have a disability, including non-visible disabilities such as chronic diseases, learning disabilities, head injury, PTSD or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources office and schedule an interview with the Accessibility Case Manager/ADA Coordinator, Cynthia Lowery Staples. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR office located in the University Center, Room 3150 or call [903.566.7079](tel:903.566.7079). You may also send an email to cstaples@uttyler.edu.

Course Schedule*

Date	Topic/Chapter
1/9/2023	Ch. 1: Introduction Quiz 1 and Discussion 1 Due 1/14/2023 at 11:59 PM
1/16/2023	No Class
1/23/2023	Ch. 4: Plate Tectonics Quiz 2 and Discussion 2 Due 1/21/2023 at 11:59 PM
1/30/2023	Ch. 13: The Ocean Floor
2/6/2023	Exam 1; Ch. 14 Ocean Water and Ocean Life pt. 1 Quiz 3 & Project Proposal Due 2/11/2023 at 11:59 PM
2/13/2023	Ch. 14 Ocean Water and Ocean Life pt. 2 Quiz 4 and Discussion 3 Due 2/18/2023 at 11:59 PM
2/20/2023	Ch. 15 The Dynamic Ocean Quiz 5 and Discussion 4 Due 2/25/2023 at 11:59 PM
2/27/2023	Oceans and Human Impact (Misc. chapters and outside material)
3/6/2023	Exam 2; Ch. 16: The Atmosphere pt. 1 Quiz 6 Due 3/11/2023 at 11:59 PM
3/13/2023	Spring Break—No class
3/20/2023	Ch. 16: The Atmosphere pt. 2 Quiz 7 and Discussion 5 Due 3/25/2023 at 11:59 PM
3/27/2023	Ch. 17: Moisture, Clouds, and Precipitation
4/3/2023	Exam 3; Ch. 18: Air Pressure and Wind Quiz 8 Due 4/8/2023 at 11:59 PM
4/10/2023	Ch. 19: Weather Patterns and Severe Storms Quiz 9 and Project Due 4/15/2024
4/17/2023	Ch. 20: World Climates and Global Climate Change Discussion 6 Due 4/22/2023
4/24/2023	Final Exam—not cumulative

Other Important Spring 2023 Dates

1/23/2023	Census Date
3/23/2023	Last Day to Drop with a W

*As the instructor of this course, I, Dr. Jenny Rashall, reserve the right to alter the schedule as needed throughout the semester. Changes to the schedule will be announced in class and via Canvas announcement. An updated version of the syllabus will be added to Canvas.

How to Succeed in the Course

In this course, we will be covering a lot of material in a short amount of time. If you would like to do well in the class, I offer these suggestions:

- ◇ CARE ABOUT YOUR GRADE FROM DAY ONE! I can't do much for you if you come to me in the last few weeks of class and ask how to improve your grade. If your grades aren't where you want them to be by the first exam, please get in touch with me as soon as you can.
- ◇ STAY UP TO DATE WITH THE MATERIAL! Keep in mind, a general rule is to expect to spend an additional 1-3 hours each week per credit hour of a course studying beyond the class meeting time. Be sure to review the lecture content in preparation of weekly quizzes.
- ◇ COME TO CLASS! It is important to come to each class to complete your lecture notes and any in-class activities in preparation of the weekly quizzes and exams.
- ◇ FIND A STUDY GROUP! This is a great course to study with other people. Each student in the class will connect with different aspects of the course, and discussing the topics with each other will help with retention.
- ◇ ASK QUESTIONS! If you don't understand something, please ask! We only meet once a week, but I am available throughout the week via email and Zoom. I am always happy to meet with you to discuss anything that you need.
- ◇ COMMUNICATE! I can't stress this enough. As I've already said, I'm here to help. If you are struggling with the course content or have a family emergency and miss a class, the sooner you get in touch with me, the better.