

SP21 - GEOL 110: Earth and Space Science (20795)

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Earth and Space Science (Geology 110)

Spring 2021/Imperial Valley College

Kevin Marty [\[Contact Info\]](#)

Earth and Space Science is an entry level course on principles and concepts of science relevant to geology, astronomy, oceanography and meteorology.

<---- See Sidebar for Modules, Assignments, Announcements, Quizzes and other links



near the Salton Sea under moonlight (2019)

Hello and welcome to Geology 110 (Earth and Space Science). Below is the syllabus that outlines what this course is about and how we will cover the course material during this semester (along with other important information). Once you have reviewed the syllabus, please go to the modules section of Canvas and read through other important information regarding this course, and get started on your assignments when you are ready.

PLEASE NOTE: ONCE YOU HAVE READ THROUGH THE SYLLABUS HERE, ALL YOU HAVE TO DO IS GO TO THE 'MODULES' BUTTON TO THE LEFT- EVERYTHING IS LINKED TO THE 'MODULES' SECTION (SO YOU DON'T HAVE TO GO TO ASSIGNMENTS OR QUIZZES, FOR EXAMPLE, BECAUSE THEY ARE ALREADY LINKED TO THE MODULES)...THE ONLY OTHER BUTTON YOU WILL USE FREQUENTLY IS 'ANNOUNCEMENTS'.

Basic Course Information

Semester	Spring 2021	Instructor Name	Kevin Marty
Course Title & #	Geology 110	Email	kevin.marty@imperial.edu (mailto:kevin.marty@imperial.edu)
CRN #	CRN: 20059 and 20795	Webpage (optional)	
Room	Online (this semester)	Office	2772 (N/A this semester)
Class Dates	Feb 16-June 11	Office Hours	TBA
Class Days	Online: Zoom optional	Office Phone #	760-355-5761 (N/A this semester)
Class Times	Online	Office contact if instructor will be out or emergency	Science Dept at 760-355-6155
Units	3		

OPTIONAL ZOOM MEETINGS (PLEASE READ)

these classes are offered this semester as traditional online classes (for both CRN's 20059 and 20795); therefore Zoom meetings are not required. I will hold (optional) weekly office hour Zoom meetings that you can attend at your discretion to discuss anything related to the class work. PLEASE NOTE: I will hold a highly recommended orientation Zoom meeting at the beginning of the semester to go over the course content and Canvas (to be announced).

Course Description

This introductory earth and space science course covers basic principles from the fields of geology, astronomy, oceanography, and meteorology. Minerals and rocks, natural processes acting at the earth's surface and within the Earth, plate tectonics, geologic time and dating, composition and motions of the Earth, solar system, phases of the moon, origin and life cycles of stars, galaxies, water movements, ocean floor, weather and climate, along with other related topics will be studied. (C-ID GEOL 120) (CSU, UC)

(more)

The Earth System is diverse and dynamic, featuring volcanoes, earthquakes, tsunamis, landslides, floods, hurricanes, tornadoes, and so on. As citizens, we want to understand what is going on in our natural world and which aspects directly affect us or are most interesting. Understanding past events helps us comprehend what has happened and begin to predict future events. With the Earth System (it's components being the Atmosphere, Hydrosphere-including ice, Biosphere, Geosphere and influences from Space or the Exosphere), we examine past events and current natural processes to understand how this past and these processes affect humans. We will examine Space, the evolution of the Solar System and how space affects Earth's systems.

Accordingly, this course looks at the processes and materials composing Earth's physical environment, for example, its landscapes, interior, air and water, and explores topics such as natural hazards and disasters, fossils, energy resources, and much more. This course also explores topics related to space, such as the evolution of stars and our solar system, and examines evidence of past impacts and the threat of impacts with space objects today. To do so, we will learn some underlying principles of the natural world, from small things like the very building blocks of matter (atoms), to large things, like the cause and effect of regional forces that build mountains (e.g., the Himalayas) and make new oceans (e.g., the Red Sea). These processes are active today on Earth, whether driven by the Sun or Earth's internal heat, and as mentioned above can culminate in earthquakes, volcanoes, landslides, ocean currents and hurricanes, all of which obviously affect humans.

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Gain critical thinking skills while working on and completing weekly homework assignments which include applying methods such as Venn diagrams, rubrics, and concept maps. (ILO2)
2. Gain awareness of geological events, weather and climate patterns and oceanic circulation on a global scale and understand/evaluate why events/features occur where they do. Assessment done through various homework assignments. (ILO5)
3. Gain knowledge of geological, meteorological, astronomical and oceanic features and processes through lectures, research papers, exams and presentations. Ties to all objectives. (ILO4)

Course Objective

Upon satisfactory completion of the course, students will be able to:

1. Demonstrate a basic understanding of the nature of matter, and describe the movement of matter and energy through the natural processes on Earth.
2. Explain the character of the sediments, rocks, and minerals of which they are composed, and relate this to the rock cycle.
3. Identify and explain the major subdivisions of Earth and processes acting deep inside Earth that effect the environment at the Earth's surface.
4. Describe the time frame within which natural processes function, and learn ways geologists use to decipher Earth's history.
5. Demonstrate an understanding of the theory of plate tectonics and relate this to earthquakes, volcanoes, mountain building and the evolution of the physical world over million of years.
6. Identify the cause and effect of earthquakes and how they are measured, and the effect on people.
7. Characterize volcanic activity and identify its natural causes and impact on the environment.
8. Identify landscapes and source of sediments on the sea floor, and show the relationship between geology and ecology of the oceans.
9. Demonstrate knowledge of the dynamics of the sea by understanding near surface and deep sea circulation patterns and interaction with the atmosphere, and the composition and properties of sea water.
10. Identify the processes that effect sea level and shape the shoreline, and understand coastal environments.
11. Describe the composition and structure of the atmosphere, and examine atmospheric circulation, weather systems and storms, along with modern and past climates.

12. Describe the connection among ecology, climate and geology, and understand the character of the land surface and the agents that shape the landscape.

13. Explain the weathering process and the products of weathering.

14. Explain mass wasting and ways to avoid and prevent it.

15. Demonstrate a knowledge and understating of the role of water and wind in earth systems.

Processes such as runoff, erosion, deflation and features such as stream, groundwater, and dune systems will be examined.

16. Explain the formation of glacier ice, the ways ice and ice deposits shape the landscape, and the connection between glaciers and other parts of Earth's systems.

17. Demonstrate a knowledge and understanding of the sun, the moon, the planets and other characteristics of the solar system and beyond.

Textbooks & Other Resources or Links

1) McConnell, D., and others. The Good Earth (Third/e). New York McGraw-Hill. ***(Provided online through Canvas; you do not need to purchase a textbook- see opening announcement).***

Three scientific themes are emphasized throughout the text: 1) scientific literacy; 2) Earth Science and the human experience; and, 3) the science of global change. This book will help you learn earth science concepts and processes on your own and complement what we do in class.

The Key Concepts and Terms List is your guide to what is important (found in an announcement). Required reading is listed in the right column of the Lecture Schedule later on in this document.

Checkpoints are found on nearly every page in each chapter. These checkpoints consist of a wide variety of learning methods from construction of Venn Diagrams to filling in rubrics and constructing concept maps. Some of these checkpoints along with sketches are linked to your lessons and are a key component to doing well on Exams.

Course Requirements and Instructional Methods

Course Philosophy and Teaching Method: The subject of Earth Science is as vast and diverse as the natural world around us. Together, we will explore and visualize this dynamic world in a number of ways; in no way will it be a static collection of facts. Accordingly, we will concentrate on understanding natural processes and how we explore and learn things about our planet, rather than terms and factual trivia. We will concentrate on active, inquiry-based learning and will learn how to observe, think about, and understand our place in the natural environment. The critical inquiry and observational skills that we cultivate this semester should be useful in any profession, since they give you an appreciation of how earth science processes in our natural world impact our environment and society.

It is your responsibility and obligation to complete the required readings each week and prior to any online quizzes.

Course Expectations: My role in this class is to provide a framework that includes theory, best practices, activities, and assignments for you to utilize in the development of your knowledge, understanding, and skills. I care very much how and what you learn in this class, but I believe that you are responsible for participating in learning from the activities provided. This class requires significant preparation and reading.

Course Grading Based on Course Objectives

Grades:

In this course, your grade will be based on points that you earn. There are approximately 520 possible points, which are written out below:

Point Distribution Summary*	Points
Three Test @ ~100 points each (300 points total); non-comprehensive and given generally after every 4 chapters of coverage UPDATE: Test 1 and Test 2 are scheduled; a short research paper OR climate change investigation might be required instead of Test 3 (this is still being worked on and will be decided after the semester begins)	300
Quizzes (10 @ 5 pts each; 2 @ 10 pts each)	70
Discussion boards ~6 @ 10-15 pts each; also two quizzes based on outside investigations...AND... 6 Journal Posts (see under "Discussions" for information/requirements for the Journal Entries and a grading rubric) @ 10-15 Pts each	~150
Total Points Possible	~520

Tests: There are 3 total tests over four chapters each. Each of the 3 tests is worth 100 points, for a semester total of 300 points. The tests consist of 50 multiple choice/answer, reading comprehension, fill-in-the-blank type questions (each question worth 2 pts for 100 pts total). Your textbook is your best study guide for the tests along with the chapter quizzes.

The '**UPDATE**' in the table above shows that a paper/investigation might substitute for Test 3 (to be decided after the semester begins)

You can make up exams only if you have a note from a doctor, a letter from the university regarding some university-sponsored activity, a copy of a jury summons, a police report, or some other document that can be verified. This legitimate proof for why you cannot attend class that day must be provided to the instructor as far in advance of the exam as possible.

Quizzes: there are a total of 12 quizzes scheduled (one for each chapter covered) that generally consist of 10 questions worth ½ point each (so the total points possible for each quiz is 5 pts; two of the quizzes are worth 10 pts). You generally have three attempts over a 60 minute time period to complete each quiz (you highest score will be recorded). See syllabus for quiz due dates. Some of these questions will be found on your three tests described above so are a partial study guide (along with reading the chapters) for your tests. These cannot be made up once each due date (and the one-day grace period) passes.

Discussion Boards/Journal Entries: Discussions are ways to present your viewpoint or what you have learned about a topic to the class; and to respond to your classmate's posts to further discussion on a topic. Discussions are completed through Canvas and are generally worth 10-15 points. Sometimes an initial as well as a response post (to classmate's posts) are required. Not all lessons require a post (click on "Discussions" above to see the schedule); a couple discussion boards require quizzes instead of written posts...ALSO, there are 6 Journal Entries required for this course (read about this through the "Journal Rubric" found under the "Discussions" link to the left; also found under Module 4 where your first Journal Post is due). Journals are a way of connecting topics from the course (and the natural world) to your life. These add up to a significant portion of your grade so please take the time to really experience and think about how you make these connections (the Journal Rubric describes the purpose of the journals in detail).

Field Trip: One (extra credit) hike is planned for this semester (details later). **CANCELLED THIS SEMESTER.**

Due Dates: The above assignments have specifically defined due dates as noted in the Course Schedule (see Table below). It is your responsibility to keep up on all due dates. The instructor will not assume the responsibility of reminding you that an assignment is due or that an exam will be given.

Score/Grade Posting: All scores will be posted on Canvas. You have 7 days after a score has been posted to dispute an entry. After the 7-day period, the score stands as entered. Do not wait until the end of the semester to check your scores. Grades are not assigned by a “curve”, where a certain percent is assigned “A”, “B”, etc. Instead, you are competing against my expectations, not your classmates, and there is no predetermined percentage of “A”, “B”, and “C”. The exact division between letter grades will not be determined until the final points are totaled, but the grade breaks will not be raised above typical values (e.g., the A-B grade break will be 90% or lower, etc.). No items are weighted—your grade is based solely on total points received. Please note also that I use Canvas only to ‘show’ you your scores, but not to grade you. Any grade you see in Canvas is probably inaccurate, so only check to make sure your scores are recorded correctly...to figure out your approximate grade at any given point, add up to total points possible to the date you are figuring out your score, and divide that into the total points you have earned (which you will find through Canvas)...then multiply that number by 100 to get your percentage.

Dates for Withdrawals: There is a course withdrawal deadline—check the college calendar to find the course withdrawal deadline for this semester. The course withdrawal deadline is a no-tolerance policy. When the withdrawal period ends, students only have one option – a grade of F for the course.

Incomplete Grade: A mark of “I” is given only when a student who is otherwise doing acceptable work is unable to complete a course because of an illness or other situation beyond the student’s control. The student is required to arrange for the completion of the course requirements with the instructor. The university does not allow instructors to assign a grade of “I” simply because a student has quit attending classes and/or completing assignments.

Attendance

- A student who fails to show up for the first class meeting can be dropped by the instructor. For an online class, this means not completing (or attempting to complete) and submitting required assignments during the first week. Should readmission be desired, the student’s status will be the same as that of any other student who desires to add a class. It is the student’s responsibility to drop or officially withdraw from the class. See the [IVC General Catalog](https://www.imperial.edu/courses-and-programs/catalogs-and-schedules/) (https://www.imperial.edu/courses-and-programs/catalogs-and-schedules/) for details.
- Furthermore, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.

Online Classroom “Netiquette “

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word (this applies to strictly online and hybrid classes).
- Netiquette rules to remember: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others’ opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

Academic Honesty

- Plagiarism is taking and presenting as one’s own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to ‘cite a source’ correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.
- Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Additional Help – Discretionary Section and Language

Help Along The Way: Many students enter this class with a bit of anxiety. Other students may have various disabilities, including test anxiety, which may make traditional classroom environments very difficult. Don’t worry, almost all such students before you have passed this course – many with very high grades! The success of many of these students, though, was in part because they attended class regularly, took advantage of my office hours, or obtained help from their peers. If you are having difficulty understanding the course work, please contact me immediately. Also, the college has learning centers, disability resource centers, and counseling centers to address the various needs of students. (see examples next):

- Learning Labs: There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- Library Services: There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313, if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/> [\(http://www.imperial.edu/students/student-health-center/\)](http://www.imperial.edu/students/student-health-center/). The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities, please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762 [\(http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762\)](http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762)

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/> [\(http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/%20\)](http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/%20)

Anticipated Class Schedule / Calendar

Schedule for Geology 110: Earth and Space Science, SPRING 2021

*All due dates and distribution of grade points is subject to change according to class needs.

**NOTE: for purposes of this online class, the week begins on Mondays at 12:01 am and ends on Sundays at 11:59 pm.

Day 1 is Monday and Day 7 is Sunday (and, for example, Day 4 is Thursday) each week.

Week of	Topic/Lecture/Test	Readings
Feb 15-21	Lesson 1: Introduction to course and Scientific Method Intro Post Due Day 5, Response Post Due Day 7 Mystery of the Megaflood Video Post Due Day 7 Quiz Chapter 1 Due Day 7 of NEXT WEEK	Chapter 1
Feb 22-28	Lesson 2: Earth in Space	Chapter 2

	Season's Assignment/Quiz, Due Day 7 Quiz Chapter 1 Due Day 7 this week; Quiz Chapter 2 Also Due Day 7 this week	
Mar 1-7	Lesson 3: Near Earth Objects Space Exploration Post, Due Day 7 Quiz Chapter 3 Due Day 7	Chapter 3
Mar 8-14	Lesson 4: Plate Tectonics Journal Post 1 Due Day 7 Quiz Chapter 4 Due Day 7	Chapter 4
Mar 15-21	Test 1: Opens Day 4 at 6 am and closes Day 7 at 11:59 pm. Taken online and found under "Quizzes" link. Journal Post 2 Due Day 7 No Quiz	Test 1
Mar 22-28	Lesson 5: Earthquakes Earthquake Post Due Day 7 Quiz Chapter 5 Due Day 7	Chapter 5
Mar 29-Apr 4	Lesson 6: Volcanoes Journal Post 3 Due Day 7 Quiz Chapter 6 Due Day 7	Chapter 6
Apr 5-11	Spring Break	Spring Break
Apr 12-18	Plate Tectonics/Earthquakes/Volcanoes (Review) Concord Consortium: Plate Tectonics (STEM assignment)	Concord Consortium Assignment

Apr 19-25	Lesson 7: Rocks and Minerals Journal Post 4 Due Day 7 Quiz Chapter 7 Due Day 7	Chapter 7
Apr 26-May 2	Lesson 8: Geologic Time Geologic Time Investigation and Quiz Due Day 7 Quiz Chapter 8 Due Day 7	Chapter 8
May 3-9	Test 2: Opens Day 4 at 6 am and closes Day 7 at 11:59 pm. Taken online and found under the "Quizzes" link Journal Post 5 Due Day 7 No Quiz	Test 2
May 10-16	Lesson 9: Oceans and Coastlines Oceanic Post due day 5 and 7 Quiz Chapter 13 Due Day 7	Chapter 13
May 17-23	Lesson 10: The Atmosphere Journal Post 6 Due Day 7 Quiz Chapter 14 Due Day 7	Chapter 14
May 24-30	Lesson 11: Weather Systems Geology of National Parks Module/Post Due Day 5 and 7 (with optional response post for extra credit) Quiz Chapter 15 Due Day 7	Chapter 15
May 31-June 6	Lesson 12: Climate and Climate Change Quiz Chapter 16 Due Day 7	Chapter 16
June 7-11	Test 3: Opens Day 1 at 6 am and closes Day 4 at 11:59 pm. Taken online and found under the "Quizzes" link.	Test 3

OR Climate Investigation/Research Paper (TBD)

Climate Post (Chasing Ice and NASA Website) Due Day

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Course Summary:

Date	Details
Sun Feb 21, 2021	<p> <u>Lesson 1: Introductory Post</u> (https://imperial.instructure.com/courses/14823/assignments/328918)</p> <p>due by 11:59pm</p>
Sun Feb 28, 2021	<p> <u>Scientific Method assignment over Horoscope AND Lewis and Clarke Expedition OR Mystery of the Megaflood</u> (https://imperial.instructure.com/courses/14823/assignments/328956)</p> <p>due by 11:59pm</p>
Sun Feb 28, 2021	<p> <u>Lesson 1 (Chapter 1): Scientific Method Post Over Horoscope AND Lewis and Clark Expedition OR Mystery of the Megaflood Video</u> (https://imperial.instructure.com/courses/14823/assignments/328917)</p> <p>due by 11:59pm</p>
	<p> <u>Quiz Chapter 1 (NOT DUE UNTIL NEXT WEEK)</u> (https://imperial.instructure.com/courses/14823/assignments/328872)</p> <p>due by 11:59pm</p>
	<p> <u>Quiz Chapter 2; Reminder Quiz 1 also due this week</u> (https://imperial.instructure.com/courses/14823/assignments/328894)</p> <p>due by 11:59pm</p>

Date	Details	due by 11:59pm
Sun Mar 7, 2021	 Season's Assignment (Quiz) https://imperial.instructure.com/courses/14823/assignments/328854	due by 11:59pm
Sun Mar 7, 2021	 Post: Space Exploration (and Possible Extra Credit) https://imperial.instructure.com/courses/14823/assignments/328916	due by 11:59pm
Sun Mar 7, 2021	 Quiz Chapter 3 https://imperial.instructure.com/courses/14823/assignments/328881	due by 11:59pm
Sun Mar 14, 2021	 Journal Post 1: Due Day 7; BEFORE POSTING HERE READ ON "JOURNAL RUBRIC" above https://imperial.instructure.com/courses/14823/assignments/328915	due by 11:59pm
Sun Mar 14, 2021	 Quiz Chapter 4 (NOTE: this quiz consists of 20 questions and extra time- 75 minutes- to complete it) https://imperial.instructure.com/courses/14823/assignments/328855	due by 11:59pm
Sun Mar 21, 2021	 Journal Post 2 Due Day 7 (pick one of two topics) https://imperial.instructure.com/courses/14823/assignments/328913	due by 11:59pm
Sun Mar 21, 2021	 Test 1 Chapters 1-4: opens Day 4 at 6 am and closes on Day 7 at 11:59 pm. https://imperial.instructure.com/courses/14823/assignments/328896	due by 11:59pm
Sun Mar 28, 2021	 Lesson 5: Earthquake Post https://imperial.instructure.com/courses/14823/assignments/328912	due by 11:59pm
Sun Mar 28, 2021	 Quiz Chapter 5 (Note: this quiz consists of 30 questions and you have 75 minutes to complete it) https://imperial.instructure.com/courses/14823/assignments/328866	due by 11:59pm
Sun Apr 4, 2021	 Journal Post 3 Due Day 7 https://imperial.instructure.com/courses/14823/assignments/328911	due by 11:59pm
Sun Apr 4, 2021	 Quiz Chapter 6 https://imperial.instructure.com/courses/14823/assignments/328878	due by 11:59pm
Sun Apr 18, 2021	 Plate Tectonics: Concord (this assignment takes about 5-6 hrs to complete) https://imperial.instructure.com/courses/14823/assignments/328954	due by 11:59pm
Sun Apr 25, 2021	 Journal Post 4 Due Day 7 https://imperial.instructure.com/courses/14823/assignments/328910	due by 11:59pm
Sun Apr 25, 2021	 Quiz Chapter 7 https://imperial.instructure.com/courses/14823/assignments/328863	due by 11:59pm

Date	Details	
Sun May 2, 2021	📄 Geologic Time Quiz Berkeley (https://imperial.instructure.com/courses/14823/assignments/328880)	due by 11:59pm
	📄 Quiz Chapter 8 (https://imperial.instructure.com/courses/14823/assignments/328888)	due by 11:59pm
Tue May 4, 2021	📄 Short Research Paper Due Nov 2:NOTE- EXTRA CREDIT (OPTIONAL) UP TO 10 PTS (https://imperial.instructure.com/courses/14823/assignments/328958)	due by 11:59pm
	📄 Earthquake Assignment (https://imperial.instructure.com/courses/14823/assignments/328945)	due by 11:59pm
	📄 Hurricane Tracking Assignment (https://imperial.instructure.com/courses/14823/assignments/328949)	due by 11:59pm
Sun May 9, 2021	📄 Journal Post 5 Due Day 7 (https://imperial.instructure.com/courses/14823/assignments/328908)	due by 11:59pm
	📄 Test 2 Chapters 5-8; Opens Day 4 at 6 am and closes Day 7 at 11:59 pm (https://imperial.instructure.com/courses/14823/assignments/328860)	due by 11:59pm
	📄 Volcano Assignment (https://imperial.instructure.com/courses/14823/assignments/328963)	due by 11:59pm
	📄 Lesson 9: Oceans and Coastlines Post (https://imperial.instructure.com/courses/14823/assignments/328909)	due by 11:59pm
Sun May 16, 2021	📄 Quiz Chapter 13 (https://imperial.instructure.com/courses/14823/assignments/328883)	due by 11:59pm
	📄 Test 3 Short Research Paper for Extra Credit (see previous description of topics at Test 2) (https://imperial.instructure.com/courses/14823/assignments/328960)	due by 11:59pm
Fri May 21, 2021	📄 Chapter 1. Introduction to Earth Science (https://imperial.instructure.com/courses/14823/assignments/328927)	due by 8:59pm
	📄 Chapter 13. Oceans and Coastlines (https://imperial.instructure.com/courses/14823/assignments/328919)	due by 8:59pm
	📄 Chapter 14. The Atmosphere (https://imperial.instructure.com/courses/14823/assignments/328921)	due by 8:59pm
	📄 Chapter 15. Weather Systems (https://imperial.instructure.com/courses/14823/assignments/328923)	due by 8:59pm

Date	Details	
	 Chapter 16. Earth's Climate System https://imperial.instructure.com/courses/14823/assignments/328925	due by 8:59pm
	 Chapter 2. Earth in Space https://imperial.instructure.com/courses/14823/assignments/328929	due by 8:59pm
	 Chapter 3. Near-Earth Objects https://imperial.instructure.com/courses/14823/assignments/328931	due by 8:59pm
	 Chapter 4. Plate Tectonics https://imperial.instructure.com/courses/14823/assignments/328933	due by 8:59pm
	 Chapter 5. Earthquakes https://imperial.instructure.com/courses/14823/assignments/328935	due by 8:59pm
	 Chapter 6. Volcanoes and Mountains https://imperial.instructure.com/courses/14823/assignments/328937	due by 8:59pm
	 Chapter 7. Rocks and Minerals https://imperial.instructure.com/courses/14823/assignments/328939	due by 8:59pm
	 Chapter 8. Geologic Time https://imperial.instructure.com/courses/14823/assignments/328941	due by 8:59pm
Sun May 23, 2021	 Journal Post 6 Due Day 7 https://imperial.instructure.com/courses/14823/assignments/328906	due by 11:59pm
	 Quiz Chapter 14 https://imperial.instructure.com/courses/14823/assignments/328861	due by 11:59pm
Wed May 26, 2021	 Chapter 1. Introduction to Earth Science https://imperial.instructure.com/courses/14823/assignments/328928	due by 11:59pm
	 Chapter 13. Oceans and Coastlines https://imperial.instructure.com/courses/14823/assignments/328920	due by 11:59pm
	 Chapter 14. The Atmosphere https://imperial.instructure.com/courses/14823/assignments/328922	due by 11:59pm
	 Chapter 15. Weather Systems https://imperial.instructure.com/courses/14823/assignments/328924	due by 11:59pm
	 Chapter 16. Earth's Climate System https://imperial.instructure.com/courses/14823/assignments/328926	due by 11:59pm

Date	Details	due by 11:59pm
	 Chapter 2. Earth in Space https://imperial.instructure.com/courses/14823/assignments/328930	
	 Chapter 3. Near-Earth Objects https://imperial.instructure.com/courses/14823/assignments/328932	
	 Chapter 4. Plate Tectonics https://imperial.instructure.com/courses/14823/assignments/328934	
	 Chapter 5. Earthquakes https://imperial.instructure.com/courses/14823/assignments/328936	
	 Chapter 6. Volcanoes and Mountains https://imperial.instructure.com/courses/14823/assignments/328938	
	 Chapter 7. Rocks and Minerals https://imperial.instructure.com/courses/14823/assignments/328940	
	 Chapter 8. Geologic Time https://imperial.instructure.com/courses/14823/assignments/328942	
	 Lesson 11: Climate and Climate Change (Chasing Ice Video); looking ahead to the last week on climate https://imperial.instructure.com/courses/14823/assignments/328907	
Sun May 30, 2021	 Lesson 8: Geology of National Parks (WITH OPTIONAL RESPONSE POST FOR EXTRA CREDIT) https://imperial.instructure.com/courses/14823/assignments/328914	
	 Quiz Chapter 15 https://imperial.instructure.com/courses/14823/assignments/328876	
Sun Jun 6, 2021	 Quiz Chapter 16 https://imperial.instructure.com/courses/14823/assignments/328869	
Mon Jun 7, 2021	 one COMET module (see recent announcement for details) https://imperial.instructure.com/courses/14823/assignments/328952	
Thu Jun 10, 2021	 Test 3 Chapters 13-16; Opens Day 1 at 6 am and closes Day 4 at 11:59 pm https://imperial.instructure.com/courses/14823/assignments/328895	
Fri Jun 11, 2021	 Short Research Paper https://imperial.instructure.com/courses/14823/assignments/328957	
	 Atmosphere Quiz https://imperial.instructure.com/courses/14823/assignments/328899	

 **[Checkpoint 1.8](https://imperial.instructure.com/courses/14823/assignments/328857)**
(<https://imperial.instructure.com/courses/14823/assignments/328857>)

 **[Checkpoint Questions Chapter 1](https://imperial.instructure.com/courses/14823/assignments/328868)**
(<https://imperial.instructure.com/courses/14823/assignments/328868>)

 **[coors or wrigley](https://imperial.instructure.com/courses/14823/assignments/328943)**
(<https://imperial.instructure.com/courses/14823/assignments/328943>)

 **[Curve Points](https://imperial.instructure.com/courses/14823/assignments/328944)**
(<https://imperial.instructure.com/courses/14823/assignments/328944>)

 **[example](https://imperial.instructure.com/courses/14823/assignments/328900)** (<https://imperial.instructure.com/courses/14823/assignments/328900>)

 **[extra credit including hike](https://imperial.instructure.com/courses/14823/assignments/328946)**
(<https://imperial.instructure.com/courses/14823/assignments/328946>)

 **[Geologic Time Quiz](https://imperial.instructure.com/courses/14823/assignments/328862)**
(<https://imperial.instructure.com/courses/14823/assignments/328862>)

 **[handbook for test 1](https://imperial.instructure.com/courses/14823/assignments/328947)**
(<https://imperial.instructure.com/courses/14823/assignments/328947>)

 **[Hurricane Earthquake OR Volcano Assignment](https://imperial.instructure.com/courses/14823/assignments/328948)**
(<https://imperial.instructure.com/courses/14823/assignments/328948>)

 **[Lesson 10,11,12 \(last post!\): Weather and Climate](https://imperial.instructure.com/courses/14823/assignments/328905)**
(<https://imperial.instructure.com/courses/14823/assignments/328905>)

 **[Lesson 2: Space Exploration Post](https://imperial.instructure.com/courses/14823/assignments/328950)**
(<https://imperial.instructure.com/courses/14823/assignments/328950>)

 **[Lesson 3: NEO post from NASA website \(optional\)](https://imperial.instructure.com/courses/14823/assignments/328901)**
(<https://imperial.instructure.com/courses/14823/assignments/328901>)

 **[Lesson 4: Dynamic Earth Post due week 1 of lesson 4](https://imperial.instructure.com/courses/14823/assignments/328902)**
(<https://imperial.instructure.com/courses/14823/assignments/328902>)

 **[Lesson 6: Volcano Post](https://imperial.instructure.com/courses/14823/assignments/328903)**
(<https://imperial.instructure.com/courses/14823/assignments/328903>)

 **[Lesson 7: Minerals Post \(optional\)](https://imperial.instructure.com/courses/14823/assignments/328904)**
(<https://imperial.instructure.com/courses/14823/assignments/328904>)

 [Locating an Earthquake Epicenter](https://imperial.instructure.com/courses/14823/assignments/328951)
(<https://imperial.instructure.com/courses/14823/assignments/328951>)

 [Mineral ID Online Lab](https://imperial.instructure.com/courses/14823/assignments/328893)
(<https://imperial.instructure.com/courses/14823/assignments/328893>)

 [MTU Website](https://imperial.instructure.com/courses/14823/assignments/328856)
(<https://imperial.instructure.com/courses/14823/assignments/328856>)

 [Optional LearnSmart Extra Credit](https://imperial.instructure.com/courses/14823/assignments/328953)
(<https://imperial.instructure.com/courses/14823/assignments/328953>)

 [Quiz 1 Chapter 1](https://imperial.instructure.com/courses/14823/assignments/328873)
(<https://imperial.instructure.com/courses/14823/assignments/328873>)

 [Quiz 2 Chapter 2](https://imperial.instructure.com/courses/14823/assignments/328887)
(<https://imperial.instructure.com/courses/14823/assignments/328887>)

 [Quiz 3 Chapter 3](https://imperial.instructure.com/courses/14823/assignments/328858)
(<https://imperial.instructure.com/courses/14823/assignments/328858>)

 [Quiz 4 Chapter 4](https://imperial.instructure.com/courses/14823/assignments/328879)
(<https://imperial.instructure.com/courses/14823/assignments/328879>)

 [Quiz 5 Chapter 5](https://imperial.instructure.com/courses/14823/assignments/328875)
(<https://imperial.instructure.com/courses/14823/assignments/328875>)

 [Quiz 6 Chapter 6](https://imperial.instructure.com/courses/14823/assignments/328877)
(<https://imperial.instructure.com/courses/14823/assignments/328877>)

 [Quiz 7 Chapter 7](https://imperial.instructure.com/courses/14823/assignments/328898)
(<https://imperial.instructure.com/courses/14823/assignments/328898>)

 [Quiz 8 Chapter 8](https://imperial.instructure.com/courses/14823/assignments/328884)
(<https://imperial.instructure.com/courses/14823/assignments/328884>)

 [Reminder: Chapter 4 Quiz Due This Week](https://imperial.instructure.com/courses/14823/assignments/328955)
(<https://imperial.instructure.com/courses/14823/assignments/328955>)

 [Season's Quiz](https://imperial.instructure.com/courses/14823/assignments/328890)
(<https://imperial.instructure.com/courses/14823/assignments/328890>)

 [Space Weather](https://imperial.instructure.com/courses/14823/assignments/328870)
(<https://imperial.instructure.com/courses/14823/assignments/328870>)

 [Test 1 \(https://imperial.instructure.com/courses/14823/assignments/328959\)](https://imperial.instructure.com/courses/14823/assignments/328959)

 [test assign \(https://imperial.instructure.com/courses/14823/assignments/328961\)](https://imperial.instructure.com/courses/14823/assignments/328961)

 [Test Chapter 1 \(https://imperial.instructure.com/courses/14823/assignments/328891\)](https://imperial.instructure.com/courses/14823/assignments/328891)

 [Test Chapter 13 \(https://imperial.instructure.com/courses/14823/assignments/328882\)](https://imperial.instructure.com/courses/14823/assignments/328882)

 [Test Chapter 14 \(https://imperial.instructure.com/courses/14823/assignments/328859\)](https://imperial.instructure.com/courses/14823/assignments/328859)

 [Test Chapter 15 \(https://imperial.instructure.com/courses/14823/assignments/328865\)](https://imperial.instructure.com/courses/14823/assignments/328865)

 [Test Chapter 2 \(https://imperial.instructure.com/courses/14823/assignments/328867\)](https://imperial.instructure.com/courses/14823/assignments/328867)

 [Test Chapter 3 \(https://imperial.instructure.com/courses/14823/assignments/328864\)](https://imperial.instructure.com/courses/14823/assignments/328864)

 [Test Chapter 4 \(https://imperial.instructure.com/courses/14823/assignments/328897\)](https://imperial.instructure.com/courses/14823/assignments/328897)

 [Test Chapter 5 \(https://imperial.instructure.com/courses/14823/assignments/328886\)](https://imperial.instructure.com/courses/14823/assignments/328886)

 [Test Chapter 6 \(https://imperial.instructure.com/courses/14823/assignments/328871\)](https://imperial.instructure.com/courses/14823/assignments/328871)

 [Test Chapter 7 \(https://imperial.instructure.com/courses/14823/assignments/328885\)](https://imperial.instructure.com/courses/14823/assignments/328885)

 [Test Chapter 8 \(https://imperial.instructure.com/courses/14823/assignments/328874\)](https://imperial.instructure.com/courses/14823/assignments/328874)

 [Test Chapter 8\(1\) \(https://imperial.instructure.com/courses/14823/assignments/328889\)](https://imperial.instructure.com/courses/14823/assignments/328889)

 [Vesuvius Quiz \(https://imperial.instructure.com/courses/14823/assignments/328892\)](https://imperial.instructure.com/courses/14823/assignments/328892)

 [VISCOSITY QUESTION \(https://imperial.instructure.com/courses/14823/assignments/328962\)](https://imperial.instructure.com/courses/14823/assignments/328962)

Date

Details

 **What are rx made of?**
(<https://imperial.instructure.com/courses/14823/assignments/328964>)

 **What is the class about?**
(<https://imperial.instructure.com/courses/14823/assignments/328965>)
