

ES104 – Exploring Earth and Environmental Science (CRN 1038; 4 Credits)
POLICIES AND PROCEDURES

Summer Term 2024 - Western Oregon University – **June 24 to July 22** – Four Weeks – Online

INSTRUCTOR: Dr. S. Taylor
OFFICE HOURS: **Tuesday 4-5 PM**
By Arrangement

OFFICE: RM 210 Natural Sciences Bldg
PHONE: (w) 838-8398 (cell) 541-760-9216
E-MAIL: taylors@wou.edu
FACULTY WEB SITE: www.wou.edu/taylor

VIRTUAL OFFICE MEETING URL (Taylor Zoom Personal Room):
<https://wou-edu.zoom.us/j/8273666289?pwd=bitrNUtBNzNZNUYycFF6NlpzT2ZKUT09>
Meeting ID: 827 366 6289 Passcode: 699588

OPTIONAL WEEKLY ZOOM SYNCHRONOUS CLASS MEETINGS: *Tuesday June 25, 5-6 PM; Tuesday July 2, 5-6 PM; Tuesday July 9, 5:00-6:00 PM; Tuesday July 16, 5-6 PM.*

ES104 **Summer 2024** Weekly Zoom Meeting / Check-In:
<https://wou-edu.zoom.us/j/83925591560?pwd=eXyFCDdadafGXrV5lPMuTlbtHXH7uB.1>
Meeting ID: 839 2559 1560 Passcode: 437779

ES104 LECTURE **CANVAS** SHELL: <https://www.wou.edu/portal>
ES104 CLASS WEB SITE: https://people.wou.edu/~taylors/gs104/ES104_home.html

Note: The summer 2024 ES104 Lecture and Lab class will be combined. Only the ES104 Lecture Canvas course shell will be published and used for assignment upload.

COURSE DESCRIPTION:

The introductory Earth and Environmental Science courses at WOU explore the processes that formed our dynamic planet and continue to shape Earth's systems and surface environments. This course focuses on the nature of science; processes driven by the interior of Earth, including plate tectonics, earthquakes, and volcanism; introduction to Earth materials and resources; surface environments such as rivers; and human impacts on water resources. Active learning strategies threaded through the lecture portion of the course and inquiry-based labs emphasize scientific reasoning and application of appropriate techniques to define and solve problems.

Students will learn observational techniques in the spirit of the scientific method, and generally raising our awareness of the natural environment around us. The **online** "lab" portion of the course will provide the student with an opportunity for activity-based discovery of concepts.

REMOTE ONLINE MODE:

This course will be conducted entirely online in a remote learning mode format. Students will engage internet tools including email, class web site, **Canvas** learning management system, and web conferencing technology.

As a team, we will be using up to 5 possible modes of remote communication for this term, either separately or together in combination, these include: (1) Personal one-on-one mobile device interactions (e.g. voice calls, text messaging, whatsapp), (2) WOU email system (taylors@wou.edu), (3) ES104 Class Web Site: (https://people.wou.edu/~taylors/gs104/ES104_home.html), (4) ES104 Class **Canvas** Course Shell: (<https://www.wou.edu/portal>), (5) Zoom online conferencing tool.

Canvas Class Access: To connect and log in, click on the Canvas button in your WOU Portal. For questions / help. click on "Help" on the Canvas toolbar to find links to the Help Guides, live chat and phone access to the

support team, video tutorials, and more. For problems connecting or logging on to Canvas, contact WOU Center for Teaching and Learning email: ctl@mail.wou.edu phone: 503.838.9300

Virtual Class Meetings: The class will be conducted online in asynchronous mode, however **we will hold an optional synchronous real-time virtual class meeting once per week via Zoom (see link under contact information above), on the following days / times for Summer 2024: Tuesday June 25 5:00-6:00 PM, Tuesday July 2 5:00-6:00 PM, Tuesday July 9 5:00-6:00 PM, Tuesday July 16 5:00-6:00 PM.** Each week, at the listed day and time, I will have a Zoom meeting space open for students to attend a virtual class meeting in which I will provide weekly class instructions and lesson overviews; plus answer any questions or assist with assignments. Zoom is a web browser-based tool, click a link that I will send out to join meeting; voice, video and text / chat options are available. If you experience difficulty connecting to the Zoom space during meeting time, Plan B give me a call directly on cell phone at 541-760-9216, that works as well. I will send out email reminders and virtual meeting links as we progress through the summer session. **Alternative options will be provided to students who are not able to attend the virtual class meeting; recordings will be archived and available on the ES104 class web site at the following URL:**

https://people.wou.edu/~taylors/gs104/ES104_home.html

Virtual Office Hours: Standing office hours will be held during the posted days / times above using the Zoom conferencing tool. The instructor has an account with a personal room set up that has a static web address with following URL: <https://wou-edu.zoom.us/j/8273666289?pwd=bitrNUtBNzNZNUYycFF6NlpzT2ZKUT09> Each week, at the listed day and time, I will have a meeting space open for students to drop in as needed. Enter the URL into a web browser, click link to join meeting, enter your full name and email address in the login box to enter virtual meeting room. Voice, video and text / chat options are available. If you experience difficulty connecting to the Zoom space during office hours, Plan B give me a call directly on cell phone at 541 - 760-9216, or email anytime, that works as well.

COURSE GOALS AND LEARNING OBJECTIVES:

ES104 learning objectives are aligned with select components of the LEAP (Liberal Education and America's Promise; <http://aacu.org/leap>) learning outcomes developed by the Association of American Colleges and Universities. Upon successful completion of ES104 Exploring Earth and Environmental Science, students will be able to demonstrate minimum competency in the following program areas:

1. Use the history of astronomy and solar system models to examine the nature of science
2. Explain how light and electromagnetic spectrum are used to study stars
3. Summarize plate tectonic theory and illustrate plate boundary interactions
4. Investigate properties of minerals and igneous rocks
5. Examine and analyze data to interpret Earth's interior processes
6. Discuss methods employed to mitigate volcanic and seismic hazards

PRELIMINARY COMMENTS AND COURSE PHILOSOPHY:

This course will be primarily qualitative (conceptual) in nature. Basic mathematical skills will be reviewed and utilized to complete some of the class activities. Creative instructor-student interaction will be faithfully encouraged to provide a truly relaxed educational atmosphere. A user-friendly approach to science will be emphasized by the instructor.

REQUIRED TEXTS:

Earth Science, text resource **(Provided by Instructor)**

Lab Manual to Accompany ES104 Earth System Science, Earth and Physical Sciences Dept., Western Oregon University **(Provided by Instructor)**

CLASS NOTES:

A comprehensive set of instructor class notes are available for download via the internet. The class web site is

at URL <http://www.wou.edu/taylor> ... scroll down the course list and click on the link to the "ES104" home page. The class notes are available as Adobe Acrobat Reader files (*.pdf file). The ES104 class web site can also be accessed as a link from the ES104 Canvas Course Shell, or directly from the external URL: https://people.wou.edu/~taylors/gs104/ES104_home.html

EVALUATIONS AND EXPECTATIONS:

Student performance will be evaluated on the basis of class assignments, homework, quizzes, lab exercises, and one exam. The following is a breakdown of evaluation points and letter grades:

Daily Attendance, Class Participation (5 pts per week x 4 weeks)	20 pts	7%
Weekly Class Assignments, Practice Quizzes	125 pts	39%
Weekly Online Quizzes (3 quizzes x 20 pts)	60 pts	21%
Online Final Exam	100 pts	33%
Total		305 pts 100%

Final Grading Scale

Percent Range of Total Points	Letter Grade	Percent Range of Total Points	Letter Grade
94-100%	A	77-79%	C+
90-94%	A-	73-76%	C
87-89%	B+	70-72%	C-
83-86%	B	67-69%	D+
80-82%	B-	63-66%	D
		60-62%	D-
		<60%	F

Homework Assignments, Lab Exercises, Learning Activities, Practice Quizzes: Assignments will include weekly learning activities, reading assignments, video review exercises, lab exercises, and practice quizzes. Due dates and times will be posted, with abundant instruction on how to complete the work. Special arrangements for turning in late assignments should be arranged in advance of the due date and time.

Exams and Quizzes: Exams and quizzes will consist of material covered both in lecture and lab periods; and will generally cover only the material that was most current prior to that test. The final exam will be comprehensive with test material drawn from throughout the term. Tests will generally be objective in nature (multiple choice, matching, true/false, completion) with short-answer essay questions based on the practice quizzes.

Quizzes and practice quizzes are designed to keep the students abreast of their weekly studies, in preparation for the final exam. Studying for quizzes is an excellent way to avoid last minute "exam cramming" and poor exam performance.

Class and Lab Assignments: Class and lab assignments will be worked asynchronously and independently each week. You will have lab, reading, and homework assignments that may take up to several hours to complete. Please plan your schedule accordingly. Late assignments will not be accepted after the deadline prescribed by the instructor. Special arrangements for turning in late assignments should be arranged in advance. Students will be submitting weekly assignments via Canvas upload by the prescribed due date. Any handwritten work will need to be scanned and converted to an Acrobat PDF file format, or an image JPG file format before being uploaded. Some assignments will be completed as worksheets using the MS Word DOCX format. Please inform the professor ASAP if there will be issues working with these types of file formats or digital documents, and

we will problem solve as needed. **NOTE:** Please do not submit scanned assignments in Apple file formats "PAGES" document or "HEIC" image files. Canvas can not open Apple-product file formats. Only use Microsoft WORD DOCX formats, Acrobat PDF formats, or JPG image formats. Apple "PAGES" and "HEIC" documents can be converted to Microsoft or Acrobat formats using Google Documents, which is included as a tool packaged with WOU email software.

Class Assignment Grading: The homework and assignments will be checked for completeness, and answer keys posted, with questions randomly chosen for content and accuracy. Grade points will be assigned on the basis of these criteria. With a modicum of effort, you will do well in this portion of the class.

Laboratory Exercises: The labs represent a significant component of the class. For online classes, the lab will be integrated with the class activities as part of the weekly program.

LEARNING RESOURCES AND GRADE OUTCOMES:

The class knowledge base will be derived from a combination of the following: (1) independent student reading outside of class; (2) training videos, (3) independent student engagement of lab exercises and learning activities; (4) independent student reading of web resources linked from the class web site; (5) systematic review and memorizing of class notes and ancillary reading materials, as directly linked from class web site; and (6) successful participation, note taking, and engagement of online activities delivered by the instructor. Virtual Class Meetings are designed to assist students in understanding the class content and to stay on track with the weekly schedule. Independent student engagement of readings, class notes and learning activities outside of class time is the most important pathway to success.

MAKE-UP EXAMS AND INCOMPLETES:

Under **NO** circumstances will make-up exams be administered without prior arrangement (at least five days) and good reason, with a signed administrative excuse. Please show up on exam day! Under **NO** circumstances will a grade of "incomplete" be issued in the last week of class. If you find yourself in a situation where you can't complete the required course work, please make arrangements with the instructor prior to the last week of class. Contact the Office of Student Affairs (838-8365) for assistance in arranging incompletes.

WEEKLY CLASS PARTICIPATION AND ASSIGNMENT POLICY:

There is a direct correlation between class participation and student performance. Since this course is being offered in an online format, students are expected to engage in active learning modules with their peers and instructor on a daily and weekly basis. Successful completion of the course is based on online student participation and collective interaction. As such, student work activities and progress will be checked via **Canvas** Login Records each week. Assessment will involve one-on-one debriefing with the instructor and clear demonstration of student achievement. Class participation points are available to students who demonstrate adequate weekly progress on their in-class assignments and show up as part of the team. Absent work with written excuses for medical reasons or university-related functions may be used to arrange make-up work with the instructor. As with incompletes, contact the Office of Student Affairs to arrange for assistance as needed (838-8365).

STUDENT HONOR POLICY AND CODE OF CONDUCT:

Students are prohibited from committing or attempting to commit any act that constitutes academic misconduct. By way of example, students should not give or receive (or attempt to give or receive) unauthorized help on assignments or examinations, including selling/buying and/or uploading/downloading instructors' classroom information without express permission from the instructor. Misconduct also includes copying others work, cutting-and-pasting computer results, and using cheat sheets on exams. However, students are encouraged to interact in small groups during class assignments, i.e. you can freely discuss concepts in all portions of the class, except exams. To avoid a problem in this regard, students should properly acknowledge and document all sources of information (e.g. quotations, paraphrases, ideas) and use only the resources authorized by the instructor. If there is any question about whether an act constitutes academic misconduct, it is the students' obligation to clarify the question with the instructor before acting. For

more information, please see the WOU Code of Student Responsibility at <https://wou.edu/studentconduct/files/2017/10/CSR-09.01.17.pdf>

OTHER REQUIRED MATERIALS, SOFTWARE, AND HARDWARE:

Students will also need access to a scientific calculator, colored pencils, ruler, and protractor. You will be required to use these materials to complete class activities, including labs, quizzes, and exams. Given the online mode of delivery students will need access to computer hardware, software (including MS Office, MS Word, MS Excel or alternative compatible products), and a stable internet connection capable of streaming video. MS Office365, including Excel, is available free to all WOU students, for more information connecting visit the following URL: <https://wou.edu/tech/remote-access/> Please plan accordingly, or you will have trouble successfully completing the class.

STUDENTS WITH DISABILITIES

Any student who has a disability that requires accommodation, please make an appointment to see me.

STUDENT TECHNOLOGY SUPPORT:

A website with detailed information about computer requirements and technology support for WOU students is available at the following URL: <https://wou.edu/provost/keep-learning/> In addition, other important phone numbers and web links for WOU technology support are listed below:

Western Oregon University Canvas Support: 1-503-838- 9300 (ctl@mail.wou.edu)

Western Oregon University Computing Solutions (UCS): 1-503-838-8925 (ucshelpdesk@wou.edu)

WOU Remote Access Resource Page: <https://wou.edu/tech/remote-access/>

WOU Academic Affairs Resource Page: <https://wou.edu/provost/instructional-resiliency/>

A NOTE ABOUT THE LAST WEEK OF CLASS:

Given that the class is operating in a four-week summer format, this course by its very nature is structured with detailed content to cover in a relatively short period of time. **As such, every day of class is important, with the last week more critical to content coverage as the 1st week.** Students should anticipate a full slate of "normal" activities during the last week of class, including learning activities, lab exercises, quizzes, and other assignments as needed. The class is not over until after the final exam! **Plan your schedule accordingly!**

A NOTE ABOUT LOST OR MISSING WORK:

The instructor will only grade work that is received and digitally/physically visible. Any missing work (lab assignments, homework, quiz/test answer sheets) will receive a "0" on the grade sheet. This policy applies to work lost by the student or instructor or technology glitches. If the student demonstrates that the work was turned in, but is missing, then the student will be afforded an opportunity to make up the work and resubmit it for graded credit. Otherwise, the student will not receive credit for lost or missing work.

CHANGE OF SYLLABUS - POP QUIZZES - UNANNOUNCED HOMEWORK ASSIGNMENTS

The instructor reserves the right to modify the syllabus and class schedule at any time during the term. Students will be notified of such changes in a timely manner. The instructor also reserves the right to administer pop-quizzes and assign unscheduled homework / class assignments at any time. All students will be responsible for completing this work and it will comprise part of the final class grade. **Patience and teamwork will be required.** The instructor reserves the right to change the syllabus and class structure, as needed, given the dynamic nature of the situation, and the potential for glitches associated with the technology infrastructure. Much time will be provided for students to succeed and adjust to the new learning mode, as the term progresses.

A NOTE ABOUT COMPUTER-BASED AND ONLINE COURSES:

This class will use technology, hardware, software, and the internet. As such, there are endless possibilities for software glitches, system failure, and total confusion. Your patience with lab exercises, assignments, course content, and software / hardware glitches will be greatly appreciated. **Our motto for this class: "expect the worst and hope for the best".**

INSTRUCTOR TIMELINE FOR ONLINE RESPONSE: GRADING EXAMS AND ASSIGNMENTS:

The instructor will respond to emails / messages ASAP and within 24 hours (usually much faster, but

understand that it could be up to a day before I respond). On weekends and in the evening, it may take a bit longer, but I will make a point of getting back to you as quickly as possible. The instructor's class grades are typically due to registrar's office the week following the class end date. All exams, lab materials, and assignments submitted by students throughout the term will be graded by that time, however the professor will make an effort to return graded materials within two weeks of the assigned due date. Answer keys and other resources will be posted to assist with students evaluating their work on a weekly basis. **Grade Reports: I will be using the Canvas gradebook tool. I will also be personally reviewing your work submitted via Canvas upload, grading it manually, and recording scores in my own spreadsheet / gradebook, outside of Canvas. I will send you individual grade updates via email as the session progresses, in addition to Canvas gradebook updates.**

FREQUENTLY-ASKED QUESTIONS ABOUT GRADES, STUDY TECHNIQUES AND TUTORING:

What can I do to pass the class and receive a good grade? If you want to successfully complete this class and maximize your grade standing, the following techniques are recommended: (1) read your notes before coming to class, (2) participate every day, (3) complete all of the exercises, homework, and lab assignments, (4) read the book weekly, and (5) incrementally study your notes weekly (do not wait until the last minute before the exam).

We will be covering a large volume of material throughout the session. The best approach for success is constant and steady interaction with the course materials. The assignments are designed to provide you a simplified explanation of complex scientific concepts, and present contextually-relevant, real-world examples that will help you comprehend the material. Hence, to benefit from the assignments, you will need to participate in the class on a regular basis. The class assignments provide an opportunity for self-discovery and interaction with the material, this will help you assess your ability to comprehend and understand the concepts. In addition, the class and lab assignments provide critical "effort points" that will raise your exam and quiz averages. Repeat after me: "the homework is my friend, the homework is my friend, the homework is my friend, please give us extra homework". Developing a weekly study schedule and work ethic will enable you to incrementally build a scientific knowledge base and data dictionary from which to successfully answer exam and quiz questions.

Why is reading the book important for successfully completing exams and quizzes? The online class notes are provided in a bulleted, summary format. These were developed by the professor over many years and provide the framework for organizing lecture materials. The lectures are delivered in an informal style with emphasis on contextual relevancy and conceptual visualization. The "disconnection" occurs at exam time, as the questions are written with formal scientific language and terminology. The initial step in correctly answering an exam question, is to first understand the scientific language and what the question is asking. The latter steps involve memory recall, visualization, and interactive comprehension of the scientific concepts. Given that the notes and lectures are organized in a style that differs from the written exam language, reading the book is essential for learning the formal language of science, that which is prerequisite for successful test taking.

I have followed all of your recommendations, and I still score poorly on quizzes and exams, what more can I do? The Learning Center at WOU is available for students to receive additional help and guidance in successfully completing classes. Services include peer-to-peer tutoring, study skills workshops, testing strategies, study-group organization, and structured facilitation. The Learning Center is located in Room 401 of the Academic Programs and Support Building across the street from Natural Science. Contact them at 838-8428. In addition to the Learning Center, the Office of Disability Services is available to help students who may have learning disabilities. Their number is 838-8250, call to make an appointment for an initial disability assessment.

ES104 SUMMER 2024

TENTATIVE COURSE SCHEDULE: This outline should be considered tentative at best. The following schedule may be modified as class ideas evolve throughout the term. Text reading assignments are from the "Earth Science" Resource Text (provided by instructor on class web site).

Learning Module	Class Week	Class Content	Reading Assignment	Lab Topic	Canvas Practice Quizzes
1	Week 1 June 24-30	Intro to Earth Systems Earth Overview	Chapter 1	Models & Systems	Practice Quiz 1 Introduction
2	Week 1 June 24-30	Earth-Sun Solar System	Chapter 22	Solar System	Practice Quiz 2 Earth Solar System
Optional Zoom Class Meeting Tuesday June 25, 2024, 5:00-6:00 PM					
Week 1 Assignments Due for Canvas Upload by 11 PM on Monday July 1, 2024 Canvas Quiz 1 Monday July 1, 2024 (Drop In Between 8 AM and 11 PM, 1-hour time limit)					
3	Week 2 July 1-7	Plate Tectonic Theory	Chapter 7	Plate Tectonics	Practice Quiz 3 Plate Tectonics
3	Week 2 July 1-7	Plate Dynamics	Chapter 7		
Optional Zoom Class Meeting Tuesday July 2, 2024, 5:00-6:00 PM					
Week 2 Assignments Due for Canvas Upload by 11 PM on Monday July 8, 2024 Canvas Quiz 2 Monday July 8, 2024 (Drop In Between 8 AM and 11 PM, 1-hour time limit)					
4	Week 3 July 8-14	Earthquakes	Chapter 8	Earthquakes	Practice Quiz 4 Earthquakes
5	Week 3 July 8-14	Volcanoes	Chapter 9	Volcanism	Practice Quiz 5 Volcanoes
Optional Zoom Class Meeting Tuesday July 9, 2024, 5:00-6:00 PM					
Week 3 Assignments Due for Canvas Upload by 11 PM on Monday July 15, 2024 Canvas Quiz 3 Monday July 15, 2024 (Drop In Between 8 AM and 11 PM, 1-hour time limit)					
6	Week 4 July 15-22	Minerals	Chapter 2	Minerals	Practice Quiz 6 Minerals
7	Week 4 July 15-22	Igneous Rocks	Chapter 3	Rocks	Practice Quiz 7 Igneous Rocks
Optional Zoom Class Meeting Tuesday July 16, 2024, 5:00-6:00 PM					
Week 4 Assignments Due for Canvas Upload by 11 PM on Monday July 22, 2024					
Final Exam Monday July 22, 2024 (Drop in Between 8 AM and 11 PM, 2-hour time limit once exam is started)					
NOTE: ALL FINAL ASSIGNMENTS DUE FOR CANVAS SUBMISSION BY MONDAY JULY 22, 2024, 11 PM					

Weekly Practice Quizzes

Weekly practice quizzes are designed as online exercises using your textbook, the internet, and campus learning management software called "Canvas". I have prepared a set of online, fill-in-the-blank homework exercises that are keyed to chapter readings in your textbook. By using the Canvas software, your homework exercises are administered and graded online. Individual weekly homeworks/practice quizzes will be available for throughout the term. **You will only be able to complete and submit the assigned online practice quizzes during the availability time. If you miss the deadlines you will receive a "zero" for the homework. Pay attention to the dates listed below!**

The following are procedures for accessing the online homework assignments:

- (1) You will have an individual student account set up on Canvas with a username and password.
- (2) The Canvas course shell may be accessed through your WOU portal login: <https://www.wou.edu/portal>
Enter your WOU network student username and password - **This will be the same as your email and wolfweb login.**
- (3) Once at the portal site, link to the Canvas learning management system.
- (4) Weekly practice quizzes are arranged by topic, as presented in the syllabus, with explicit open times and due dates.
- (5) Click on the practice quiz assignment you wish to complete, and begin the online assignment.
- (9) **For each question, type in an answer in the blank box provided and click on the "save answer" radio button. When finished with all questions in the homework, click on "Finish". IF YOU DON'T SEE YOUR "HOMEWORK GRADE" AFTER YOU SUBMIT, THEN YOU DID NOT FOLLOW THE ABOVE INSTRUCTIONS. REMEMBER TO "SAVE ANSWER" FOR EACH QUESTION AND "FINISH" WHEN YOU HAVE COMPLETED THE HOMEWORK.**
- (10) You may stop and begin the assignment as many times as you wish, but only until you click "submit for grading".
- (11) **Make sure you scan or print a hard copy of your homework answers and/or save them as a file on your local drive! The print out will be your hard-copy record that you completed the work. You can also use your saved copy as a study resource for the real-game quizzes and exams.**

Note: Pay attention to the availability dates and the deadlines for completion. You have unlimited time and an unlimited number of tries to correctly answer and submit the questions. Your highest score will be recorded as the grade; I will personally enter your homework and assignment scores into my own spreadsheet.

Note: Print your questions and answers from the browser icon... this will be your written record of completing the assignment!! **YOU WILL ALSO NEED THE HARD COPY OF YOUR HOMEWORK TO USE AS A QUIZ AND TEST STUDY GUIDE. ONLINE HOMEWORK QUESTIONS WILL APPEAR ON QUIZZES AND EXAMS.**

Tips and Tricks for Completing the Online Homework:

- (1) Read the text chapter in question before you start. The text readings are listed on the schedule above.
- (2) Log-on to Canvas and print out a copy of the homework questions.
- (3) Answer the questions on paper with your textbook, prior to working and submitting them online.
- (4) Log-on to Canvas and finish the online assignment.
- (5) Image capture a copy of your practice quiz, this is your record that you completed the assignment, and use for test studying later.**
- (6) You may resubmit your practice quiz answers as multiple times, until they are correctly scored.**

ES104 LAB AND CLASS ASSIGNMENT SCHEDULE Summer 2024: This outline should be considered tentative at best. The following schedule may be modified as class ideas evolve throughout the summer session.

Class/Week	Dates	Lab Topics	Lab Exercises / Instructions
Week 1	June 24-June 30, 2024	Lab 1 Models & Systems	Do not Complete Pre-Lab (p. 1) Do not Complete Part A Do not complete p. 5, p. 7 Do not complete Part B. Activity 1 Do not Complete Part B, Activity 2 Do Not Complete Post-Lab Assessment
Week 1	June 24-June 30, 2024	Lab 2 Solar System	Complete Pre-Lab (p. 1.2) Do Not Complete Part A (p. 1.3-1.4) Complete Part B (p.1.6-1.8) Complete Part C (p.1.8-1.9) Complete Post-Lab Assessment(p.1.10)

ALL WEEK 1 ASSIGNMENTS DUE FOR CANVAS UPLOAD BY MONDAY JULY 1, 2024 11 PM

Week 2	July 1-July 7, 2024	Lab 3 Plate Tectonics	Complete Pre-Lab (p. 1.2) Complete Parts A, and B (p. 1.3-1.6) Do not Complete Part C (p. 1.7-1.8) Do Not Complete Post-Lab Assessment
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ALL WEEK 2 ASSIGNMENTS DUE FOR CANVAS UPLOAD BY MONDAY JULY 8, 2024 11 PM

Week 3	July 8-July 14, 2024	Lab 4 Earthquakes	Complete Pre-Lab (p. 1.2) Do Not Complete Parts A, B, C, and D Do Not Complete Post-Lab Assessment
Week 3	July 8-July 14, 2024	Lab 5 Volcanism	Complete Pre-Lab (p. 1.2) Complete Parts A (p. 1.3) and B (p. 1.6) Do Not Complete Part C (p. 8.7-8.8) Do Not Complete Post-Lab Assessment

ALL WEEK 3 ASSIGNMENTS DUE FOR CANVAS UPLOAD BY MONDAY JULY 15, 2024 11 PM

Week 4	July 15-July 22, 2024	Lab 6 Minerals (TBD)	Complete Pre-Lab (p. 1.2) Do Not Complete Parts A and B Do Not Complete Post-Lab Assessment Additional virtual exercises TBD
Week 4	July 15-July 22, 2024	Lab 7 Igneous Rocks (TBD)	Complete Pre-Lab (p. 1.2) Do Not Complete Parts A and B Do Not Complete Post-Lab Assessment Additional virtual exercises TBD

ALL WEEK 4 ASSIGNMENTS DUE FOR CANVAS UPLOAD BY MONDAY JULY 22, 2024 11 PM