

## ERTH101 Dynamic Earth Fall 2024 - Online

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This online course requires students to be skilled in the use of the Internet. All work will be available on Lualima where you will access the textbook as well as linked videos on YouTube and other outlets, along with the instructor's video lecture recordings. All homework, exams and readings will also be through Lualima.

**REQUIRED TEXTBOOK:** Physical Geology: The Science of Earth, 3<sup>rd</sup> Edition, 2017, Fletcher, C. *available only through Wiley Engage*

	<b>Date</b>	<b>Subject</b>	<b>Chapter</b>	<b>Homework/Exam due date</b>
Week 1	Aug 26	Introduction, Solar System	Chapters 1 & 2	9/3 @ 11:55 pm
Week 2	Sept 2	Plate Tectonics	Chapter 3	9/9 @ 11:55 pm
Week 3	Sept 9	Minerals, Igneous rocks	Chapters 4 & 5	9/16 @ 11:55 pm
Week 4	Sept 16	Volcanoes	Chapter 6	9/23 @ 11:55 pm
		<b>Exam #1</b>	<b>Chapters 1 to 6</b>	<b>9/23 @ 11:55 pm</b>
Week 5	Sept 23	Weathering	Chapter 7	9/30 @ 11:55 pm
Week 6	Sept 30	Sedimentary, Metamorphic Rocks	Chapters 8 & 9	10/7 @ 11:55 pm
Week 7	Oct 7	Mountain Building	Chapter 10	10/14 @ 11:55 pm
Week 8	Oct 14	Earthquakes	Chapter 11	10/21 @ 11:55 pm
		<b>Exam #2</b>	<b>Chapters 7 - 11</b>	<b>10/21 @ 11:55 pm</b>
Week 9	Oct 21	Geologic Time	Chapter 12	10/28 @ 11:55 pm
Week 10	Oct 28	Earth's History, Climate Change	Chapters 13 & 14	11/4 @ 11:55 pm
Week 11	Nov 4	Glaciers and Paleoclimatology	Chapter 15	11/12 @ 11:55 pm
Week 12	Nov 11	Mass Wasting	Chapter 16	11/18 @ 11:55 pm
		<b>Exam #3</b>	<b>Chapters 12 - 16</b>	<b>11/18 @ 11:55 pm</b>
Week 13	Nov 18	Surface Water, Groundwater	Chapters 17 & 18	11/25 @ 11:55 pm
Week 14	Nov 25	Deserts and Wind	Chapter 19	12/2 @ 11:55 pm
Week 15	Dec 2	Coastal Geology	Chapter 20	12/9 @ 11:55 pm
Week 16	Dec 9	Marine Geology	Chapter 21	12/12 @ 11:55 pm
		<b>Exam #4</b>	<b>Chapters 17 - 21</b>	<b>12/20 @ 11:55 pm</b>

**\*Please Note:** There are multiple single-day University holidays scattered throughout the semester. This schedule does not show their individual dates. You are not expected to perform University-related work on these holidays, so depending upon when they fall, please plan accordingly.

### Student Learning Objectives

The **Department of Earth Sciences** has established the following undergraduate student learning objectives. Keep especially objectives 1, 3, and 5 in mind as overarching targets of our curriculum in GG101.

1. Students can explain the relevance of Earth Sciences to human needs, including those appropriate to Hawaii, and be able to discuss issues related to geology and its impact on society and planet Earth.
2. Students can apply technical knowledge of relevant computer applications, laboratory methods, field methods, and the supporting disciplines (math, physics, chemistry and biology) to solve real-world problems in the Earth Sciences.
3. Students use the scientific method to define, critically analyze, and solve a problem in Earth Sciences.
4. Students can reconstruct, clearly and ethically, Earth Sciences knowledge in both oral presentations and written reports.
5. Students can evaluate, interpret, and summarize the basic principles of Earth Sciences, including the fundamental tenets of the sub-disciplines, and their context in relationship to other core sciences, to explain complex Geosciences phenomena.

### **Course Evaluation and Assessment:**

Final grades will be based on the total number of points received from 21 homework assignment and 4 exams. Final grades will be calculated weighing exams as **60%** of your final grade and homework **40%** of your final grade.

For example, if your average homework score at the end of the semester is 94% and your average exam score is 83%, then your final grade would be calculated as  $0.4*94 + 0.6*83 = 87.4\%$ , which would give you a final grade of a solid B. See the grading scale below.

All assignments close promptly at 11:55 pm on the date it is due. That means you must plan ahead and begin your assignment well before 11:55 pm otherwise you may find yourself working on the assignment and suddenly at 11:55 pm, it will close and submit whatever work you have done even if it is incomplete. Exams are timed. You have 90 minutes to complete the exam. If you wait until the last minute to take the exam and want the entire 90 minutes, it means you must begin at 10:25 pm.

Assignments are generally due on Mondays unless Monday falls on a holiday. The last exam is due on Friday December 20 at 11:55 pm.

Twenty-one homework assignments and four exams are a lot of work and I recognize that life can get in the way of schoolwork. So, at the end of the term when I calculate your grade, I will drop your two lowest homework scores and your single lowest exam score. If you miss one or two homework assignment due dates, don't sweat it because they will be dropped – as a result, **I do not accept late homework or late exams.** Please do not ask me if you can hand in an assignment late and please do your best to hand in your homework on time. All homework assignments open August 26, 2024. In this class, it is never an excuse to say that you ran out of time to complete a homework assignment or you were too busy to get to the homework since all of your homework assignments are available to you beginning the first day of class.

**Note: plagiarism and/or cheating will result with an F for any exam however if you wish to work collaboratively on homework assignments, I encourage you to do so.**

### Scale for your final grade:

A+ =  $\geq 99\%$   
A =  $> 92\%$  to  $< 99\%$   
A- =  $\geq 90\%$  to  $\leq 92\%$   
B+ =  $> 88\%$  to  $< 90\%$   
B =  $> 82\%$  to  $\leq 88\%$   
B- =  $\geq 80\%$  to  $\leq 82\%$   
C+ =  $> 78\%$  to  $< 80\%$   
C =  $> 72\%$  to  $\leq 78\%$   
C- =  $\geq 70\%$  to  $\leq 72\%$   
D+ =  $> 68\%$  to  $< 70\%$   
D =  $> 62\%$  to  $\leq 68\%$   
D- =  $\geq 60\%$  to  $\leq 62\%$   
F =  $< 60\%$

*The key to getting a good grade in this class is self-motivation. You need to complete and submit assignments on time in order to get credit.*

### Title IX:

The University of Hawai'i is committed to providing a learning, working and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. If you or someone you know is experiencing any of these, the University has staff and resources on your campus to support and assist you. Staff can also direct you to resources that are in the community. Here are some of your options:

**As members of the University faculty, your instructors are required to immediately report any incident of potential sex discrimination or gender-based violence to the campus Title IX Coordinator.** Although the Title IX Coordinator and your instructors cannot guarantee confidentiality, you will still have options about how your case will be handled. Our goal is to make sure you are aware of the range of options available to you and have access to the resources and support you need.

If you wish to remain ANONYMOUS, speak with someone CONFIDENTIALLY, or would like to receive information and support in a CONFIDENTIAL setting, use the **confidential resources available here:**

<http://www.manoa.hawaii.edu/titleix/resources.html#confidential>

If you wish to directly REPORT an incident of sex discrimination or gender-based violence including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence or stalking as well as receive information and support, contact: Dee Uwono Title IX Coordinator (808) 956-2299 [t9uhm@hawaii.edu](mailto:t9uhm@hawaii.edu).