

## ERTH101 Dynamic Earth Spring 2020 - Online

**Instructor:** Brian N. Popp, E-mail: popp@hawaii.edu, Office: POST 720, 956-6206

This online course requires students to be skilled in the use of the Internet. We will communicate mainly through Wiley Engage 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 be through the Wiley Engage web site. We will also occasionally use Laulima.

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

	Date	Subject	Chapter	Homework/Exam due date
Week 1	Jan 13	Introduction, Solar System	Chapters 1 & 2	1/21 @ 11:59 pm
Week 2	Jan 20	Plate Tectonics	Chapter 3	1/27 @ 11:59 pm
Week 3	Jan 27	Minerals, Igneous rocks	Chapters 4 & 5	2/3 @ 11:59 pm
Week 4	Feb 3	Volcanoes	Chapter 6	2/10 @ 11:59 pm
		<b>Exam #1</b>	<b>Chapters 1-6</b>	<b>2/10 @ 11:59 pm</b>
Week 5	Feb 10	Weathering	Chapter 7	2/18 @ 11:59 pm
Week 6	Feb 17	Sedimentary, Metamorphic Rocks	Chapters 8 & 9	2/24 @ 11:59 pm
Week 7	Feb 24	Mountain Building	Chapter 10	3/2 @ 11:59 pm
Week 8	Mar 2	Earthquakes	Chapter 11	3/9 @ 11:59 pm
		<b>Exam #2</b>	<b>Chapters 7-11</b>	<b>3/9 @ 11:59 pm</b>
Week 9	Mar 9	Geologic Time	Chapter 12	3/23 @ 11:59 pm
Week 10	Mar 16	Spring Break		
Week 11	Mar 23	Earth's History, Climate Change	Chapters 13 & 14	3/30 @ 11:59 pm
Week 12	Mar 30	Glaciers and Paleoclimatology	Chapter 15	4/6 @ 11:59 pm
Week 13	Apr 6	Mass Wasting	Chapter 16	4/13 @ 11:59 pm
		<b>Exam #3</b>	<b>Chapters 12-16</b>	<b>4/13 @ 11:59 pm</b>
Week 14	Apr 13	Surface Water	Chapter 17	4/20 @ 11:59 pm
Week 15	Apr 20	Groundwater	Chapter 18	4/27 @ 11:59 pm
Week 16	Apr 27	Deserts, Wind and Coastal Geology	Chapters 19 & 20	5/4 @ 11:59 pm
Week 17	May 4	Marine Geology	Chapter 21	5/7 @ 11:59 pm
		<b>Exam #4</b>	<b>Chapters 17-21</b>	<b>4/15 @ 11:59 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 geology and geophysics 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, and field methods to solve real-world problems in geology and geophysics.
3. Students use the scientific method to define, critically analyze, and solve a problem in earth science.
4. Students can reconstruct, clearly and ethically, geological knowledge in both oral presentations and written reports.
5. Students can evaluate, interpret, and summarize the basic principles of geology and geophysics, including the fundamental tenets of the sub-disciplines, and their context in relationship to other core sciences, to explain complex phenomena in geology and geophysics.

### **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).