GG 611  Accelerated Introduction to Geology  Fall 2018

MWF 12:30-1:20  POST 702  3 Credits

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Readings:  There is no single textbook.  Reading assignments and lecture notes are posted online on Laulima.

Course Objectives:
1. To introduce the non-Geology BA/BS graduate students to the fundamental aspects of the geologic sciences.
2. To give students from other fields a grasp of the underlying principles that govern geologic processes.
3. To provide students with an accelerated introduction to the fields of excellence within the department.
4. To let students meet and interact with a number of active researchers in diverse fields within the department.

Learning Objectives:  The student will be able
1. to describe the general chemical composition of the Earth, the origin of the elements, the processes by which minerals and magmas form and the nature of
2. to recognize common minerals and rocks and understand their relationship to planetary/geologic processes.
3. to explain concepts of solid-state changes in mineral assemblages in rocks as a reflection of changes in physical and chemical environments within the Earth as they relate to various geologic processes.
4. to recognize the mechanisms of propagation of elastic waves through the Earth and interpret their significance for determining large-scale Earth structures and the consequences of earthquakes.
5. to categorize phenomena that affect variations in density of Earth materials and how changes in physical/chemical parameters affect dynamics of the interior of the Earth that affect global processes.
6. to contrast the Earth's core, mantle and crust in terms of magnetic properties of minerals and processes and to state what factors permit a calibration of the geologic time scale using data from measurements of rock magnetism.
7. to recognize and characterize common structures in the Earth's lithosphere, and to make reasonable interpretations of the deformational processes that produce these structures.
8. to interpret the evolution of the atmosphere and hydrosphere in the context of global processes.
9. to contrast the processes of weathering of materials exposed on the Earth's surface and categorize types of soils that result, and to be able to recognize the events of environment on dynamic natural hazard Earth processes.
10. to describe the nature of sediments deposited in a variety of geologic environments.
11. to be able to understand diverse presentations on geologic and planetary science presentations at GG Dept. Friday Seminars.

Grading: Grades are based on exams and homework assignments provided throughout the semester.

Field Trips: A field trip (on weekend day) will be included in the course, weather and access permitting.

Disability Access:
If you have a disability and related access needs the Department will make every effort to assist and support you. For confidential services students are encouraged to contact the Office for Students with Disabilities (known as “Kokua”) located on the ground floor (Room 013) of the Queen Lili'uokalani Center for Student Services: KOKUA Program; 2600 Campus Road; Honolulu, Hawaii 96822 Voice: 956-7511; Email: kokua@hawaii.edu; URL: www.hawaii.edu/kokua

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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.