GG 105  Voyage Through The Solar System • Fall 2018

Instructor
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Office hours:   TBA and by appointment

Course Information
Lectures:   Tues & Thurs 12:00–1:15 PM
Location:   POST 723
Course Reference Number: 87565
Class website: Laulima - computer access required.

Course Description: This introductory course will offer an illustrated voyage through the Solar System based on recent scientific results. In this course, we will focus on the origin, evolution, and current knowledge of the planets, their moons, asteroids, comets and the Sun. Course topics will emphasize applicable geology, tectonic activity, material properties, and atmospheric conditions of the planets and how these properties compare to planet Earth. Findings from current and past space missions will be incorporated into lecture discussions. Finally, we will consider the possibility of life elsewhere in our Solar System and on extrasolar planets.

Required Text
Authors: Eric Chaisson and Steve McMillan
Publisher: Addison Wesley, 2013

Grading (see below for more information on grading policy, etc.)

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>25%</td>
</tr>
<tr>
<td>Participation (iClicker / REEF)</td>
<td>15%</td>
</tr>
<tr>
<td>Question of the Day (iClicker / REEF)</td>
<td>10%</td>
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<tr>
<td>Mid-Term Exam #1</td>
<td>15%</td>
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<tr>
<td>Mid-Term Exam #2</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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Course Policies

Homework
• Homework will be assigned semi-regularly and will be posted on the class website.
• Each assignment will have a specified due date, which will usually be one week after the assignment was given.
• NO LATE HOMEWORK WILL BE ACCEPTED.
• No homework may be submitted by email unless by prior arrangement (with an excused absence).
• Your homework with the lowest grade will not be counted in the final grade.
• Working together on homework is encouraged! Studies have shown that students learn best when they work together. You are strongly encouraged to work with each other on assigned homework. However, each student must turn in his or her own assignment, written using his or her own words. Any student who fails to follow this rule will receive zero credit for copied answers.
iClicker REEF polling

Questions will be asked during the class period that require you to participate using the iClicker REEF polling technology system (https://www.iclicker.com) This technology now works with smartphones, tablets and laptops as well as handheld iClicker remotes. I will ask a few questions during each class that require you to respond, and you will click your response through your device. iClicker REEF polling will be used for tracking Participation and for the Question of the Day.

- **Participation:** In each class, I will ask multiple choice / true-false questions designed to help me and you assess your learning. You will get credit for responding to these questions – whether you get the answer correct or not – and your participation will contribute 15% towards your course grade.
- **Question of the Day:** In some classes (chosen randomly), there will be a Question of the Day. These questions will be multiple choice, and you will receive 1 point for a correct answer and 0 points otherwise. These questions will usually be based on material covered in the previous class. For these questions, CORRECT RESPONSES DO COUNT and contribute 10% to your course grade. Up to 3 points can be used for extra credit.

You must be in class to get credit for REEF polls; One person, one device. Violating these rules will result in loss of iClicker REEF polling credit for the rest of the semester. During the first TWO weeks of class, we will practice using the REEF polling technology, and your responses will not count toward your grade. This will provide practice time to get comfortable with the system. Starting in Week 3, I will collect your electronic participation responses and your answers to the Question of the Day in class, and they will count toward your course grade.

Further information will be provided in class to prepare you and your smart devices for the iClicker system.

**Exams**

There will be two midterm exams and a final exam. The final exam will be cumulative. You will be allowed to bring a single 8.5” x 11” sheet of paper to each exam with notes on it. It must be handwritten, one side only, in your own handwriting and must be turned in with your exam.

- **Make-Up Exams / Early Exams:** Make-up exams will not be given except when a student misses an exam for a legitimate reason such as illness or family emergency. A doctor’s note or other documentation is required. Please get in touch with me as soon as possible is such a situation arises. Anyone with sporting event conflicts must provide at least 2 weeks notice with appropriate signed paperwork.
- **Note that make-up and/or early exams will be essay format and are likely to be substantially more difficult than the standard in-class exam.**

**Course Grading**

Grading is not curved. Everyone can get an A. Course grades will be based on Homework (25%), Participation (15%), Question of the Day (10%), Midterm Exam #1 (15%), Midterm Exam #2 (15%) and the Final Exam (20%).

**Extra Credit:** Up to 3 points of extra credit may be earned by answering in-class Question-of-the-Day questions correctly. Additional opportunities for extra credit may be announced during the semester.
Letter grade breakdown:
A- = 90 – 92%, A = 93 – 96%, A+ = 97 – 100%
B- = 80 – 82%, B = 83 – 86%, B+ = 87 – 89%
C- = 70 – 72%, C = 73 – 76%, C+ = 77 – 79%
D- = 60 – 62%, D = 63 – 66%, D+ = 67 – 69%
F = < 60%

Tips for success
• **Lectures:** Come *every* class, because lectures are your key to success in this course. Some aspects of the course material will be covered in more detail in class than in the textbook, so bring your mind and attention to class in addition to your body! There will be an occasional in-class Question of the Day (quiz) that will count toward your grade as well as in-class participation questions.
• **Homework:** Do *every* homework assignment, and submit each one by the due date. Homework helps you learn the material and is a great study guide for the exams.
• **Exams:** Do not miss an exam! Study. Read. Review.
• **Questions:** Please ask questions in class. Your questions are likely to help other students as well, so never feel intimidated about asking questions about the course material.
• **Read:** Your course textbook will reinforce lecture material, so complete each reading assignment.

Course-Level Student Learning Objectives:
This course will aim to meet the following undergraduate student learning objectives, as established by the Department of Geology & Geophysics:
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 use the **scientific method** to define, critically analyze, and solve a problem in Earth science.
3. Students can **reconstruct, clearly and ethically, geological knowledge** in both oral and written reports.
4. 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.

Student Conduct and Academic Integrity
University guidelines for acceptable student conduct are very specific and will be strictly followed. Please read the guidelines ([http://www.catalog.hawaii.edu/about-uh/campus-policies1.htm](http://www.catalog.hawaii.edu/about-uh/campus-policies1.htm)) and contact your instructors if you have any concerns.
• Cheating, in any form, will not be tolerated.
• Blind copying of intellectual material (text) from books, journals and the internet is plagiarism and is illegal. Instead, you should write things down in your own words with a proper reference to your source. If a homework exercise requires you to look up an answer in something other than the class textbook, I expect you to reference the source and write it in your own words. Plagiarized work will receive zero credit for the entire assignment and cannot be re-done or made up.
Other Resources

Disability Access:
The Geology and Geophysics Department will make every effort to assist those with disability and related access needs. For confidential services, please contact the Office for Students with Disabilities (known as “Kokua”) located in the Queen Lili‘uokalani Center for Student Services (Room 013): 956-7511, kokua@hawaii.edu, www.hawaii.edu/kokua

Learning Assistance Center (LAC) is here to help students:
• use appropriate study skills to achieve academic goals.
• learn how to adjust learning approaches to fit their individual learning needs.
• learn how to study effectively with others.
• use effective learning practices.
• use self-reliant learning behaviors.
• have a functional understanding of course content.
www.manoa.hawaii.edu/learning

Gender-Based Discrimination or Violence
University of Hawaii 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 to support and assist you. Staff can also direct you to community resources. Here are some options:
• If you wish to speak with someone CONFIDENTIALLY, contact the confidential resources available here:
  http://www.manoa.hawaii.edu/titleix/resources.html#confidential
• If you wish to REPORT an incident of sex discrimination or gender-based violence, contact: Dee Uwono, Title IX Coordinator, Hawai‘i Hall 124, t9uhm@hawaii.edu, (808) 956-2299
• 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.