GG101 Lab, Spring Semester 2009

SYLLABUS

Personnel  Office  Phone  E-Mail  Office Hours
Dr. Scott Rowland  617A  956-3150  scott@hawaii.edu  W 10:00-11:00
Carolina Anchieta (M)  824  956-2581  mariaa@hawaii.edu  M 10:30-11:30
Rebecca Kraft (T)  734  956-4432  rkraft@hawaii.edu  M 1:00-2:00
Tiffany Anderson (W)  721B  956-3605  tranders@hawaii.edu  W 11:30-12:30
Ashton Flinders (Th)  842C  956-2360  flinders@hawaii.edu  Th 4:20-5:20
Lisa Petrochilos (F)  615A  956-5960  ttatsumi@hawaii.edu  M 1:30-2:30

Week #, of  Lab  Reading to do prior to lab  SLOs*
1, Jan. 12  #1: Introduction  1, 2, 3
2, Jan. 19  #2: Maps  (Monday holiday - make up other days)  Chapter 6  2
3, Jan. 26  #3: Minerals  Chapter 1, 2  2, 3, 5
Jan. 31  SE O‘ahu Field Trip w/ BOT 450 ( meet at 12:00 pm, Sinclair Circle)
4, Feb. 2  #4: Igneous Rocks  Chapter 3  2, 3, 5
5, Feb. 9  #5: Lava flows & rheology  Handout  2, 3, 5
6, Feb. 16  #6: Sed. rocks, processes  (M. holiday - make up other days)  Chapter 4  2, 3, 5
7, Feb. 23  #7: Metamorphic rocks, UH rocks (partly in the field)  Chapter 5  2, 3, 5
Feb. 28  North Shore Field Trip (all day Saturday, meet at 8:30 am, Diamond-Head side of POST)
8, Mar. 2  #8: Geologic Time and Structural Geology  Chapter 13, 14  2, 5
March 8  SE O‘ahu Field trip (all day Sunday, meet at 8:30 am, Diamond-Head side of POST)
9, Mar. 9  #9: Mānoa Landslide (in the field)  Handout  1, 2, 3
10, Mar. 16  #10: Fossils  Handout  2, 5
11, March 23-27  SPRING BREAK
12, Mar. 30  #11: Earthquakes (in the field)  Chapter 16  1, 2, 3, 5
13, Apr. 6  #12: Streamflow (in field, F. holiday - make up other days)  Chapter 8, Handout  1, 2, 3
14, Apr. 13  #13: Groundwater  Chapter 9, Handout  1, 2, 3
Apr. 17  Field Trip to Waihe‘e tunnel (e-mail engels@hawaii.edu to reserve a space)
15, Apr. 20  #14: Beach Profile (in the field)  Chapter 11, Handout 1, 2, 3, 5
Apr. 25  W. O‘ahu Sea Level Change field trip (all day Saturday, meet 8:30 am, outside POST)
16, Apr. 27  #15: Coastal Processes  1, 2, 3, 5
17, May 4  no labs unless make-ups needed, classes pau May 6

Required Text: Laboratory Manual for Physical Geology, 4th, 5th or 6th Edition, Jones & Jones. Susan Van Gorder, the G&G Secretary in POST 701 has a few used copies available for $40. Also, she will buy back used copies (5th and 6th editions only) at the end of the semester for $20, provided they’re in good condition.

Required Equipment: Pencil, eraser, calculator, brain, eagerness to learn, interest in how the Earth works, sunscreen and water for field trips. ALL LABS AND HOMEWORK MUST BE DONE NEATLY IN PENCIL - YOU WILL LOSE POINTS FOR MESSY WORK! HOMEWORK WILL COVER THE READING (LAB MANUAL CHAPTERS, HANDOUTS, AND SUPPLEMENTAL READING) FOR THE CURRENT WEEK. THIS WILL INSURE THAT YOU DO THE READING BEFORE YOU COME TO LAB! MORE POLICIES ARE LISTED ON THE BACK OF THIS SHEET

Grading:

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<td><strong>TOTAL</strong></td>
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GG 101 Lab Policies

1. Unless you have a note from your Doctor or Coach, you will not be allowed to make up a missed lab. If you are allowed to make up a lab, this must occur within one week of the missed lab. If you know in advance that you will miss a lab, you are welcome to show up for a different section, but make sure to get an OK to do this from both your TA and the TA teaching the lab you’ll be attending.

2. If there is a holiday on your lab day, please attend on a different day of the week.

3. Homework must be turned in at the beginning of each lab period. No late homework will be accepted.

4. The labs are designed to be completed in the 3 hours allotted in the schedule, and therefore must be turned in by the end of the lab period.

5. You are required to go on one of the O‘ahu field trips (some are still being scheduled), and this field trip will be worth 3 labs. It is part of the coursework – it is not extra credit. For photos from previous years’ field trips, go to:
   http://www.higp.hawaii.edu/~scott/GG103/NorthShore/Fall_2006/
   http://www.higp.hawaii.edu/~scott/GG103/SE_Oahu/Fall_2005/
   http://www.higp.hawaii.edu/~scott/GG103/SE_Oahu/Fall_2006/
   http://www.higp.hawaii.edu/~scott/GG103/NorthShore/Fall_2008/North_Shore_F08/index.htm

*SLOs - Student Learning Objectives*

G&G undergraduate courses have to consider how they address a number of SLOs, which the G&G Department has decided are key goals of any G&G student:

1. Students can explain the relevance of geology and geophysics to human needs, including those appropriate to Hawai‘i, 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.