

Environmental Geology: GLY-3039

Meeting time: 11:00-11:50 M, W, F

Meeting location: PC-214

Course Level: Undergraduate 3039

Section: 1

Web page: <http://www.fiu.edu/~sukopm/GLY3039/GLY3039.htm>

Course Catalogue Description

GLY 3039 Environmental Geology (3). GLY 3039L Environmental Geology Lab (1). The composition and structure of the earth, the internal and external forces acting upon it and the resulting surface features. Case studies and general principles illustrated from South Florida and the Caribbean. Field trips expected. No prerequisites. (F,S,SS)

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Department: Earth and Environment

Office: AHC-369

Office Hours: M, W 3 to 4 pm, as available, and by appointment (Best: send e-mail to arrange appointment.)

Outline

- Syllabus, Policies, Introduction
- Overview
- Rocks and Minerals
- Plate Tectonics
- Earthquakes
- Volcanoes
- Streams and Flooding
- Coastal Zones and Processes
- Mass Movements
- Ice and Glaciers, Wind and Deserts
- Climate – Past, Present, and Future
- Water as a Resource
- Soil as a Resource
- Mineral and Rock Resources
- Energy Resources – Fossil Fuels
- Energy Resources – Alternative Sources
- Waste Disposal
- Water Pollution
- Air Pollution
- Environmental Law and Policy
- Land Use/Planning and Engineering Geology

Performance Measures, Grading/Attendance Standards

Quizzes and Attendance: 1/2 of grade. 10-minute quizzes will be administered on a random day at a random time during class generally following completion of a book chapter of material. The sum of all quiz grades will be weighted to account for 1/2 of your overall course grade. There will be approximately 12 quizzes; therefore each one is worth about 4% of your overall grade. There will be no make up quizzes (except when due to religious holy days; see below), so they will also serve as a measure of your attendance. Quizzes will be based on lecture, text, and study guide material.

Examinations: 1/4 of grade each. One mid-term and one final examination will focus on concepts. Examinations will be based on lecture, text, study guide, and quiz material.

Grading: Grading will be based on visual inspection of the cumulative grade distribution.

University Policy on Religious Holy Days:

1. Each student shall, **upon notifying his/her instructor**, be excused from class to observe a religious holy day of his/her faith.
2. While the student will be held responsible for the material covered in his/her absence, each student shall be permitted a reasonable amount of time to make up any work missed.
3. No major test, major class event, or major University activity will be scheduled on a major religious holy day.
4. Professors and University administrators shall not arbitrarily penalize students who are absent from academic or social activities because of religious observances.

I am planning to have the midterm examination on October 16, which conflicts with the Jewish observance of Sukkot according to <http://www.interfaithcalendar.org/2014.htm>.

Please provide the notifications required by Number 1 of the policy via e-mail by close of business Monday, September 29.

Text

Recommended Textbook:

Travis Hudson, *Living With Earth, An Introduction to Environmental Geology* (ISBN 978-0-13-142447-0) available in the bookstore (~\$100 new). Printed version contains full access to all the premium materials on www.mygeoscienceplace.com. Specific reading will be recommended. Recommend you bring textbook to class, as I will refer to it.

E-text options:

- a. CourseSmart (www.coursesmart.com) 180 day subscription (~ \$38). Note: this option does not include any of the premium materials on www.mygeoscienceplace.com
- b. MyGeosciencePlace: A fully hyperlinked e-text subscription (through Pearson/Prentice Hall) along with the required premium website content may be purchased at www.mygeoscienceplace.com (~\$58). Select the Buy Access button and follow the on-screen instructions.