

Introduction to Earth Science: GLY-1010

Meeting time: 11 – 12:15 M, W

Meeting location: RDB-1100

Course Level: Undergraduate 1010

Sections: U01

Web page: <http://www.fiu.edu/~sukopm/GLY1010/GLY1010.htm>

Course Catalogue Description

GLY 1010 Introduction to Earth Science (3). GLY1010L Introduction to Earth Science Lab (1). Basic survey of Earth materials and structure, plate tectonics, volcanoes, earthquakes, surface processes and groundwater, climate change, earth resources and the impact of geology on society. (Lab fees assessed) (F,S,SS)

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Department: Earth Sciences

Office: PC-346A

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

Outline

Syllabus, Policies, Introduction

An Introduction to Geology

Plate Tectonics: A Scientific Revolution Unfolds

Matter and Minerals

Igneous Rocks

Volcanoes and Other Igneous Activity

Weathering and Soil

Sedimentary Rocks

Metamorphism and Metamorphic Rocks

Geologic Time

Crustal Deformation

Earthquakes

Earth's Interior

Divergent Boundaries: Origin and Evolution of the Ocean Floor

Convergent Boundaries; Mountain Building and the Evolution of Continents

Mass Wasting: The Work of Gravity

Running Water

Groundwater

Glaciers and Glaciation

Deserts and Winds

Shorelines

Energy and Mineral Resources

Planetary Geology

Performance Measures, Grading/Attendance Standards, Policies

Quizzes and Attendance: 10% of grade. 10-minute quizzes will be administered at the beginning of class on a random basis as appropriate to coverage of class material. The sum of all quiz grades will be weighted to account for 10% of your overall course grade. There will be approximately 10 quizzes, so each one is worth about 1% 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. Attendance and completion of quizzes is not mandatory but encouraged and will improve your overall grade. Quizzes will be based on lecture, text, and study guide material.

Examinations: Mid-term (30%) and final (60%) examinations 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 except that scores of 95% or better on each exam will ensure an 'A' grade even if no quizzes are taken.

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 on Monday, February 26, which avoids conflict with most major religious holy days according to <http://www.interfaithcalendar.org/2007.htm>.

Please provide the notifications required by Number 1 of the policy via e-mail by Wednesday, January 17.

My Policy on Incompletes:

Strongly discouraged! -- Usually more of a curse than a blessing. What you'll need to request one: doctor's note attesting to at least 2 weeks of incapacitation (provide Doctor's name, office number and address) or death certificate for immediate family member.

Policy on cheating:

It is a sad misdirection of your energy. See the University's policy on Academic Misconduct here: <http://www.fiu.edu/provost/polman/sec2web.html#2.44%20ACADEMC%20MISCONDUCT>

Text

Earth : an introduction to physical geology / Edward J. Tarbuck, Frederick K. Lutgens ; illustrated by Dennis Tasa. 8th ed. Pearson/Prentice Hall, Upper Saddle River, N.J. c2005. 711 p. ISBN: 0131148656

Includes "Student Lecture Notebook" and "GEODE: Earth" CD

Companion web site:

http://wps.prenhall.com/esm_tarbuck_earth_8e