

## GLY 1010 Introduction to Earth Science: Spring 2012

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MWF: 10 – 10:50 am. Office Hours: M-R 1pm – 2 pm

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### Course Description:

This course provides a basic survey of geology and the solid earth sciences. Subjects covered include: formation of the solar system and the Earth, plate tectonics, formation and classification of minerals and rocks, geologic time, external and internal processes, earthquakes, volcanoes, surface and ground water, and geologic aspects of South Florida.

### Course Objectives/Learning Outcomes

Students should leave this course with a solid overview of the geological sciences and their impact on such societal issues such as natural hazards and mineral and energy resources. This course with its Lab (GLY1010L) fulfills the Physical Science Core Curriculum requirement.

### Prerequisites:

This is an introductory level science course and there are no college level prerequisites for this course. A basic high school level knowledge of chemistry and algebra is assumed and students deficient in those areas are advised to review those subjects. A concurrent lab course, GLY 1010L, is not required, but is strongly recommended in order to give "hands on" practice and experience.

The course website contains all the PowerPoint lectures, quizzes on each chapter and old exams for practice. **Be forewarned, that there is no guarantee that your exam questions will be set only from these quizzes or practice tests.**

Recommended textbook: Tarbuck and Lutgens: Earth: An Introduction to Physical Geology, 9e. Pearson Prentice Hall.

Book web site: <http://www.prenhall.com/tarbuck>

### COURSE REQUIREMENTS AND POLICIES

- On-time **attendance is required**. Attendance will be taken on random days at the start of the period, and you must attend the full period to receive credit. Unannounced short quizzes may be used to check attendance, as well as homework assignments.
- **Reading** of the assigned chapters from the textbook and additional readings prior to class is **expected**. Come to class with your assigned reading completed and **prepared** to take notes, ask questions, and participate in class discussions.
- All electronic devices must be turned off during class. Failure to comply with this rule, may result in the student being excused from class.
- There will be **no make- up exams and assignments** unless exceptional conditions apply as defined in the *Student Handbook*, which require written evidence.

- If absent from class, it is **your responsibility** to find out what you missed and obtain notes from your classmates. Being absent does not excuse you from anything that was discussed or due during class.

- **Late assignments will not be accepted**, except under approved emergency circumstances as defined in the *Student Handbook*.

- Any impropriety (e.g., cheating, plagiarism) on exams, quizzes, or written project will constitute grounds for **failing the course**.

Please also look at the following web pages for the FIU policies on important topics. The same will be adhered to in this class:

- the University's Code of Academic Integrity (<http://academic.fiu.edu/AcademicBudget/misconductweb/1acmisconductproc.htm>)
- University policies on academic misconduct (<http://academic.fiu.edu/AcademicBudget/misconductweb/1acmisconductproc.htm>)

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and honestly to demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the *Student Handbook*.

We are still adjusting to the MWF format. We still have to see how much of our lectures fit in a 50 minute class. Therefore, please consider this syllabus as tentative, we might adjust as we go along.

#### Tentative Schedule

Date	Topic	Chapter
Jan 9	Intro and Plate tectonics	Chapter 1, 2
Jan 11	Intro and Plate tectonics	Chapter 1, 2
Jan 13	Intro and Plate tectonics	Chapter 1,2
<b>Jan 16</b>	<b>MLK Day Holiday: No class</b>	
Jan 18	Intro and Plate tectonics	Chapter 1,2
Jan 20	Minerals	Chapter 3
Jan 23	Minerals	Chap 3
Jan 25	Igneous rocks and volcanism	Chapter 4, 5

Jan 27	Igneous rocks and volcanism	Chapter 4,5
Jan 30	Igneous rocks and volcanism	Chapter 4, 5
Feb 1	Igneous rocks and volcanism	Chapter 4, 5
Feb 3	Weathering and Soil	Chapter 6
Feb 6	Sedimentary rocks	Chapter 7
Feb 8	Sedimentary rocks	Chapter7
Feb 10	Review	
<b>Feb 13</b>	<b>Midterm 1</b>	Chapter 1-7
Feb 15	Metamorphism	Chapter 8
Feb 17	Metamorphism	Chapter 8
Feb 20	geologic Time	Chapter 9
Feb 22	geologic Time	Chapter 9
Feb 24	Crustal Deformation	Chapter10
Feb 27	Mass Wasting	Chapter15
Feb 29	Mass Wasting	Chapter 15
Mar 2	Ground water	Chapter 17
Mar 5	Ground water	Chapter17
Mar 7	Running Water	Chapter 16
Mar 9	Running Waters	Chapter 16
<b>Mar 12-16</b>	<b>Spring Break</b>	
Mar 19	Review	
<b>Mar 21</b>	<b>Midterm 2</b>	<b>Chapter 8 -10, 15-17</b>
Mar 23	Glaciers	Chapter 18
Mar 26	Glaciers	Chapter 18
Mar 28	Winds and Deserts	Chapter 19
Mar 30	Winds and Deserts	Chapter 19
Apr 2	Shoreline and oceans	Chapter 20, 13
Apr 4	Shoreline and oceans	Chapter 20, 13
Apr 6	Shoreline and oceans	Chapter 20, 13
Apr 9	Earthquake	Chapter 11
Apr 11	Earthquake	Chapter 11
Apr 13	Earth's interior	Chapter 12
Apr 16	Evolution of Continents	Chapter 2, 14
Apr 18	Evolution of Continents	
Apr 20	Review, Reading Period, Spill overs	
<b>Apr 23</b>	<b>Final Exam (9:45 to 11:45 a.m.)</b>	<b>Cumulative</b>

Attendance: Attendance is worth 10% of the class grade. I will take attendance on five random days. Each of those will count for 2 points.

Please check the exam days and make sure those days do not clash with your religious holidays. You must discuss any alternate arrangements during the first week of the class.

Exam Policy: There will be two midterms(30% each) and a two part cumulative final exam(30% each)—no, they don't add upto 120% -- read below:

Part I of the final exam will include materials covered during the first and second midterm. Part II of the final exam will cover materials covered subsequent to the second midterm . The worst grade among the first two midterms and part I of the final will automatically be dropped. Part I of

the final is optional, Part II is mandatory. In addition I might set some quizzes or homework assignments for extra credit.

**No makeup exam will be given. If you miss an exam, I'll assume you received zero in that exam and will drop that grade. If you miss more than one exam, you get a failing grade in this course. If you miss Part II of the final exam you get a failing grade for this course.**