Instructor
Dr. Dean Whitman
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Office Hours: W/Th 2:00-4:00 PM, or by appointment

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, deformation of the Earth’s crust, the geologic history of North America, 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.

Reading

- The textbook is also available at a substantial discount (~$59) via a 180-day on-line subscription at [http://www.coursesmart.com/0131566997](http://www.coursesmart.com/0131566997)

Web and email Resources
This is a web assisted course. A course webpage will be maintained with Blackboard, CE6. This page will contain this syllabus, copies of exercises, links, and announcements for the course.

To access this resource, go to [http://online.fiu.edu/login.html](http://online.fiu.edu/login.html) and enter your Username and Password in the Blackboard CE6 login box. Use your Panther ID and your default password which is your date of birth, input as MMDDYYYY. You will be prompted to change your password.

The textbook also has an excellent webpage at: [http://www.prenhall.com/tarbuck/details.html](http://www.prenhall.com/tarbuck/details.html) which contains additional material such as key concepts, on-line quizzes, and virtual field trips.
I will also communicate with you regularly through your blackboard email address. The message sent are important and may contain information on how to gain some bonus points, so check your email at least one a week !!!

**Lecture attendance:**
Attendance at lectures is required. It is extremely important that you do not miss lectures. I will be taking roll regularly. It is your responsibility to obtain notes and handouts from class if lectures are missed. I recommend that you bring your textbook to class as I will be referring to it in lecture and class activities. Excessive absences may be grounds for failure of this course.
- Please be courteous to others and me in class: arrive on time to lectures, and **turn off all cellular phones while in class.**

**Grading:**
The grade in this course will be based on an average score of attendance and class participation (10%), three incremental midterms (50% total), and a cumulative final (40%).

Exams will cover all material in the assigned readings, lectures, and handouts, and will generally consist of multiple choice, matching, fill in, and short answer questions. The midterm exams will be of 60 minute duration. The final exam will cover material for the whole course and will be 120 minutes in duration.

Grades on exams will be computed as follows (subject to change):
- **A:** 100% - 86%; **B:** 85% - 76%; **C:** 75% - 61%; **D:** 60% - 45%; **F:** 44% - 0%.

Plus and minus grades will be assigned for the upper and lower bounds of each interval. Exam grades normally will not be curved.

**Exam attendance:**
Quiz and exam attendance is **mandatory.** A make-up midterm exam will **not** be offered except for documented cases of serious illness, emergency, or death in the family, and **only** at my discretion. If you must miss an exam for one of these reasons, I strongly recommend that you contact me by telephone or e-mail before the exam. Exams missed in other circumstances will count as zero towards your final grade. Please arrive on time for exams. All tests will start promptly at the beginning of class.

**How to do well in this class**
As with other college level courses, you should put in at least 2 hours of study time for each hour of lecture. That is, for this course, you should be spending at least 6 hours per week outside of class doing reading, organizing notes, working in study groups, exploring the course web sites. In addition, the following is recommended:
- **Read the assigned reading before and after the lecture in which it is covered**
- **Answer the review questions at the end of each chapter and review the key terms**
- **Utilize the materials on the CD and web site including the self-tests.**
- **Download and print out the lecture outlines before class. Annotate the outlines while I lecture.**
- **Come to class. Even if you are tired or distracted, you will still retain more than if you skip the lecture. If you must miss lecture, get the notes from someone who came to class**
- **Ask questions in class and office hours.**
University Policy on Academic Misconduct
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.

GLY 1010-02 Tentative Schedule (subject to change)
Fall Semester, 2009, Tu/Th 11:12:15, Room GL100B

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Reading (whole chapter unless specified)</th>
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| 1    | Aug 25     | Organization, Introduction  
The Scientific Method, The Earth Systems | Ch 1:                                    |
|      | Aug 27     |                                                                       |                                         |
| 2    | Sep 1 & 3  | Plate Tectonics                                                      | Ch 2                                     |
| 3    | Sep 8      | Matter, Atoms, Isotopes, Chemical bonds; Minerals                     | Ch 3                                     |
|      | Sep 10     |                                                                       |                                         |
|      |            | Midterm 1: Ch 1-3                                                    |                                         |
| 4    | Sep 15 & 17| Igneous Rocks, Igneous Mineral Resources                             | Ch 4, Ch 23:643-647                     |
| 5    | Sep 22     | Volcanism and Igneous Intrusive features.  
Weathering, Residual Ores | Ch 5, Ch 6:23:647-651                   |
|      | Sep 24     |                                                                       |                                         |
| 6    | Sep 29 & Oct 1 | Sedimentary Rocks, Energy Resources: Fossil Fuels | Ch 7, Ch 23:628-636                   |
| 7    | Oct 6      | Metamorphic Rocks                                                    | Ch 8                                     |
|      | Oct 8      |                                                                       |                                         |
| 8    | Oct 13 & 15| Geologic time and the rock record  
Last day to drop class with a DR grade | Ch 9                                     |
|      | Friday, Oct 16 |                                                      |                                         |
| 9    | Oct 20 & 22| Deformation of rocks, Structural Geology                             | Ch 10                                    |
| 10   | Oct 27     | Earthquakes  
Ch 13:366-372  
Ch 14:377-399  
Ch 22:605-612 |
|      | Oct. 29    |                                                                       |                                         |
| 11   | Nov 3      | Continental Tectonics, Evolution of North America                    | Ch 9,10,11,13,14,22                   |
|      | Nov 5      |                                                                       |                                         |
| 12   | Nov 10     | The Hydrologic Cycle and Surface Processes  
Mass wasting            | Ch 16:424-426  
Ch 19:516-522  
Ch 15 |
|      | Nov 12     |                                                                       |                                         |
| 13   | Nov 17     | Groundwater, karst and sinkholes  
Glaciers and the Ice Ages  | Ch 17  
Ch 18 |
|      | Nov 19     |                                                                       |                                         |
| 14   | Nov 24     | Shorelines and Beaches  
Thanksgiving Break, University Closed | Ch 20 |
|      | Nov 26     |                                                                       |                                         |
| 15   | Dec 1      | The geology and hydrology of Florida  
Extra Time/Review        | Web links                                |
|      | Dec 3      |                                                                       |                                         |
| Final|            | Final Exam: Cumulative, 2 hour exam                                  |                                         |