

## ENVIRONMENTAL GEOLOGY

GLY-3039, fall, 2009

M, W, F, 11:00 – 11:50 AM

Instructor: Professor Jose F. Longoria,

### Contact Information:

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**Required Text:** Environmental Geology by Carla W. Montgomery, 8<sup>th</sup> edition, Publisher: McGraw Hill, ISBN 0-07-252816-8

### **Course Description: What is GLY3039: Environmental Geology?**

Briefly defined, Environmental Geology is the interaction of humans with their geological environment. As such, GLY3039: Environmental Geology aims at explaining the evolution and changes of our planet Earth and how they affect human activities. The majority of the environmental issues which affect our planet Earth, e.g., climatic changes (global warming, greenhouse effect), ocean pollution, el niño and related atmospheric disruptions (destruction of the ozone layer), toxic and radioactive waste disposal, land use management, natural resources, geological hazards, and alternative energy resources, among others, are the focus of this course. An important aspect of this course is the understanding of geological processes and phenomena, as well as the way they have modified our planet and how those modification affect humans. Current environmental issues such as threat to the

world's water and biodiversity, and the exploitation of mineral resources will be discussed. Sustainable development and future societal adaptation to alternatives of current paths will be the focus of our discussions throughout the semester.

The course requires involvement, independent thinking, and a lot of time. This is a class in which you have to work hard in; but, it is also one you should enjoy and derive motivation from. Consequently this course requires time so if you are busy, or overloaded with courses, or have a busy personal schedule, or plan to travel during the semester, or if you feel you will learn better in different learning modality you may not be suited to a course like this, if you have to make a change do it now.

### **Course Policies**

**The course is based mainly on the lectures.** The topics of the lectures are also covered in the textbook, although lectures include material not covered in the textbook, and the textbook includes material not covered in the lectures. If you rely on the textbook without attending lectures, you will not receive all of the information that is covered on the exams. Also material cover in audio-visuals (DVDs, videos tapes, and websites) will be considered for the exams. It is extremely rare that a student who does not regularly attend the lectures will learn enough to get a final grade of beyond C. This includes students who make arrangements for others to take notes for them, because other people's notes are not usually as useful as your own.

*You are expected to maintain high standards of academic honesty.* Any student found in violation of these standards will earn an automatic F and be reported to the Dean's Office, no exceptions made. In accordance with FIU's policy on academic honesty, as set forth in Section 2.44 of the Academic Affairs Policies and Procedures Manual (<http://academic.fiu.edu/polman/sec2web.htm#two-forty-four>), it is expected that students in this class will neither submit the academic work of another as their own, nor provide work they have done for another student to be submitted as that other student's work. **Students are required to attend all the lectures and to stay for the entire lecture time.** Discipline during the lecture will be strictly enforced: No disruption of lecture will be tolerated.

### Exams and Grading

**Exams will take place as scheduled** (see weekly schedule below) unless university classes are cancelled. The format of the regular and final exams is multiple choice. The regular exams and the final exam count 100 points each. They are to be finished in 40 minutes and cover all lectures and the corresponding material in the textbook and documentaries (DVDs and video tapes) covered since the previous exam. The final exam covers all lectures and corresponding textbook material not covered in the previous exams. The three exams have equal weight; that is, 33 per cent each.

**Makeup Exams.** In most cases, if you miss an exam you earn a 0. Makeup exams will be given only in extreme circumstances and if you have valid, documentable proof justifying your absence, such as a doctor's note explaining a bad illness, police report verifying a car accident or a death certificate of an immediate family member. University sponsored events away from campus, family trips out of town and a car that wouldn't start do not qualify for makeup exams. *In the case of a valid reason that can be documented for missing an exam, you will be given a makeup exam at the end of the semester at the scheduled and no other date or time, you must review the course schedule to be aware of this date, which will be two week before the final exam. In such a case, you must contact the professor as soon as possible after missing the exam. The format of makeup exams is essay and short answer.*

Note about exam times: In keeping with university policy, accommodations for students who wish to observe their religious holidays will try to be made. Students should make these requests known at the beginning of the semester. If you are scheduled to be away for any reason during a scheduled exam, you should not take this course. If you have a time conflict with the final exam (see <http://www.fiu.edu/orgs/register/final.htm> for possible conflicts) do not take this course. It is your sole responsibility to function well in this class, do not expect any special consideration if you are overloaded with courses or overcommitted with personal activities.

**Extra Credit.** During the semester there will be opportunities during class to earn extra credit by answering questions based on the last several lectures. This is the **ONLY** form of extra credit.

**Grading.** Final grade in GLY1101 results from the average of the three exams.

**My grading policy is as follows:**

96-100	A
90-95	A-
86-89	B+
83-85	B
80-82	B-
76-79	C+
73-75	C
70-72	C-
66-69	D+
63-65	D
60-62	D-
<60	F

**The course content** is divided into three independent parts each containing seven chapters of the textbook. **Each part has an exam.**

**Weeks 1 – 5:**

**Part 1: Chapters 1, 2, 3, 4, 5, 6, 7. EXAM 1: Friday, 9/25**

**Weeks 6 – 10:**

**Part 2: Chapters 8, 9, 10, 11, 12, 13. EXAM 2: 10/30**

**Weeks 11 - 15**

**Part 3: Chapters 14, 15, 16, 17, 18. Exam 3: Finals Week**

### WEEKLY CALENDAR

Week 1: 8/24, 8/26, 8/28

Week 2: 8/31, 9/2, 9/4

Week 3: 9/7, 9/9, 9/11

Week 4: 9/14, 9/16, 9/18

Week 5: 9/21, 9/23, 9/25

**Review for Exam 1, 9/23**

**EXAM 1: Friday, 9/25**

Week 6: 9/28, 9/30, 10/2

Week 7: 10/5, 10/7, 10/9

Week 8: 10/12, 10/14, 10/16

Week 9: 10/19, 10/21, 10/23

Week 10: 10/25, 10/28, 10/30

**Review for Exam 2, 10/28**

**EXAM 2: 10/30**

Week 11: 11/2, 11/4, 11/6

Week 12: 11/9, 11/11, 11/13

Week 13: 11/16, 11/17, 11/20

**MAKEUP EXAMS: 11/20 in PC321 at 2:00 PM**

Week 14: 11/23, 11/25, 11/27 thanksgiving, no class

Week 15: 11/30, 12/2, 12/4

**Review for exam 3, 12/4**

Week 16: 12/8 - 12/13: Finals Week.

**EXAM 3: Check the academic calendar for official date and time**