

## GEOL 106LRS: EARTH & SPACE SCIENCE FOR LIBERAL STUDIES MAJORS

Fall, 2010  
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**COURSE OBJECTIVES:** This course is an overview of the earth sciences: astronomy, geology, oceanography, and weather (meteorology). The course is designed for and required of Liberal Studies majors who are seeking an Elementary Teaching Credential.

**REQUIRED---HANDOUTS PACKET:** Please purchase from the campus bookstore a packet containing most of the handouts that you will need.

**OPTIONAL TEXTBOOK:** Lutgens, F. K., and E. J. Tarbuck, 2008, Foundations of Earth Science (5th ed.): Upper Saddle River, N. J., Prentice Hall, 460 p.

**EXAMS & GRADING:** There will be three exams (each worth 100 points) and a cumulative final exam (worth 200 points: 100 pts. on prior material and 100 pts. since the last exam). There will also be the possibility of additional points associated with in-class assignments, take-home assignments, and pop quizzes. No make-ups on any of these additional points. Each exam will be based on lectures. Questions will be objective. You will need a Scan-Tron Form 883-ES for the first three exams and Form 882-E for the final exam. NO MAKE-UP EXAMS.

**EXTRA CREDIT:** For an extra **15** points, you can visit one of the following: the Natural History Museum near USC, the La Brea Tar Pits, the Griffith Park Observatory, or the CSUN Planetarium, and then write a two-page summary of what you saw and how it could help you in your teaching of earth science. You must also submit proof that you actually made the visit (e.g., receipt or ticket stub). Due date is Dec. 8, or before.

<u>POINTS:</u>		<u>GRADING SCALE:</u>	
Exam no. 1	100 pts.	90-100%	A
Exam no. 2	100 pts.	80-89	B
Exam no. 3	100 pts.	70-79	C
Final Exam	<u>200 pts.</u>	59-69	D
total	500	<59	F

Failure to take the final exam will result in a grade of WU (Withdrawal Unauthorized).  
In accordance with the University policy for "Incompletes," there has to be a compelling and verifiable reason (and the accompanying paperwork) given **well in advance** of the final exam.

### COURSE OUTLINE AND SUGGESTED TEXTBOOK READING ASSIGNMENTS:

<u>Week #</u>	<u>Topic</u>	<u>Chapter(s):</u> if you come across topics that we did not discuss in class, then skip them.
<b>ASTRONOMY</b>		
1	Introduction, "Big Bang," Red Shift,	16
	What's Our Reach, Galaxies	
2	Stellar Evolution/Solar System/Meteorites	16, 15
3	Comets, Meteorites, Telescopes,	15, 10 (pp. 274-277); 6
	Moon Phases, Tides, Earthquakes	
<b>GEOLOGY &amp; OCEANOGRAPHY</b>		
4	Earthquakes, Earth's Interior, <b><u>EXAM 1 (Sept. 22):</u></b>	6 (pp. 165-167), 5
	Earth's Crust, Plate Tectonics	
5	Plate Tectonics	5, 6 (pp. 174-179)

6	Minerals, Igneous Rocks, Volcanoes	1, 2, 7
7	Sedimentary Rocks, Fossils	2
8	Metamorphic Rocks, Rock Cycle, <b>EXAM 2 (Oct. 20);</b> Absolute Time	2, 8
9	Relative Time, Earth Resources	8
10	Soils, Groundwater, Mass Wasting, Rivers	3
11	Ice Age, Glaciers, Deserts, Oceans, Waves, Coastlines	4, 3, 9, 10

#### **METEOROLOGY**

12	<b>EXAM 3 (Nov. 22);</b> Atmosphere Layers, Seasons, Greenhouse, Ozone Depletion	11
13	Convection, Clouds, Low & Highs, Coriolis Effect, Global Circulation	11, 12, 13
14	Fronts, Thunderstorms, Tornadoes	14
15	Tornadoes, Hurricanes, Miscel., Review	14

### **CUMULATIVE FINAL---Week of Dec. 13th--day and time to be announced**

#### **Tips On How to Succeed in This Class**

1. If you do not understand something, please ask questions.
2. **Do not be late to class.** Arriving late is disturbing both to me and to the other students. In addition, there could be a pop quiz at the beginning of class (no makeups).
3. If you have to leave class early for some valid reason, please let me know ahead-of-time.
4. If you want to socialize, **then do it outside!** Do not visit with your neighbor during class. No talking on your cell phone during class. **Be sure your cell phone and/or pager alert tone are not audible during class.**
5. **No eating during class.** No reading newspapers or books during class. No listening to headsets (CDs or iPods).
6. Do not use class time to study for other classes. In addition, class time should be spent taking notes from the current lecture and NOT spent copying notes taken by a fellow student during my previous lecture.
7. Give yourself adequate study time for the lecture material. Generally, the standard is 2 hours of study time per week for each one unit of a course. Try to review notes as soon as possible after a lecture.
8. If you are having difficulties with the course, ask me for help or advice early in the semester. Do not coast through most of the course, and then, with a week or two remaining in the term, ask me what you can do to improve your grade. I strongly urge you to seek help if your first exam grade indicates you are doing poorly.
9. An ethical note: looking at a fellow student's paper during an exam is cheating; using crib notes is cheating. Consequences of cheating will be an automatic "F" and a report filed with the Office of the Vice President for Student Affairs and Dean of Students.
10. Coming to class is essential for passing this class. **Historically, those who cut class, fail.**
11. Whenever possible, please communicate with me personally during class or office hours. E-mail should be used for the following: to alert me when you will be absent from class, to alert me that you are confused about a concept and would like me to discuss it at the next class session, or to communicate a personal concern. E-mail should **not** be used to ask me:
  - \* to write you a summary of a class session you missed
  - \* to re-teach a concept online
  - \* to give you an exam date that can be found in the syllabus