

Geology 101 – Physical Geology, Fall 2005

Class Objectives and Information

Geology is both an applied, as well as research science. Elements of biology, chemistry, mathematics and physics are required to understand earth concepts. The course will be taught through lectures and related laboratory exercises. Lectures will cover information and concepts from the text. Laboratory exercises will stress the application of geological problem solving. Lab exercises will be held periodically to reinforce specific concepts. The exercises are self-paced and you are encouraged to work in groups. There are **no makeup labs**. Generally, there is no outside work required for this course except for the Observational Project explained below. The Dallmeyer text is excellent **and you will be expected to read about the information presented in class and listed on this syllabus. Expect exam questions from the text as well as lab exercises.**

Please! Turn off cell phones and pagers during class.

Field Trips

It is important to see geology in the field and examine the rocks, sediments and structures first hand so field trips will be a part of this course. Due to the late meeting time, the trip(s) will probably be scheduled for early in the semester because of the length of daylight. Dress for outdoor activities and according to the weather. I recommend bug spray, sunscreen, etc., as appropriate. All field trips involve walking!

Observational Project

The science of geology began with people observing things in nature and questioning-why? Your project will involve making a simple observation and explaining the geologic process involved. This may be something you observe in your backyard or an experiment you build. It does NOT need to be elaborate or complicated. The primary objective is for you to pay attention to your surroundings and relate it to what you learn in this course. Your grade will be based on your understanding of the geologic process involved. The format is up to you. Feel free to discuss your project with me. **NO CLASS PRESENTATION IS REQUIRED.**

Good writing and communication is valued in this course and critical to you presenting yourself as an educated person. You **must** use correct spelling and grammar in your reports. All USCA computers have a grammar and spell check option in Word. You will loose points for incorrect grammar!

Testing and Grading

There will be three (3) exams and a final exam. The final exam will be comprehensive. All exams will be multiple choice, true/false, label the figure and short answer. Your project will also count toward your final grade as well as your participation in the lecture and lab exercises. Your objective is to earn as many points as possible.

| | | |
|-----------------------|---|------------|
| 3 exams | = | 150 points |
| Final exam | = | 100 points |
| Observational Project | = | 50 points |
| Lab Exercises | = | 50 points |
| Participation | = | 50 points |
| | | |
| TOTAL | = | 400 points |

Letter Grade Ranges: A = 400-360, B+ = 359-340, B = 339-320, C+ = 319-300, C = 299-280, D+ = 279-260, D = 259-40, F=239 or less.

Extra Credit Options

EXTRA CREDIT UP TO 50 POINTS CAN BE EARNED!

1. Attending CSRAGS meetings that will be announced periodically during the semester will earn 5 points each.
2. Discussion of a current geologic event at the beginning of lecture will earn 5 points each.
3. Periodic optional assignments will be given and will earn 5 to 10 points each

If you have a physical, psychological, and/or learning disability which might affect your performance in this class, please contact the Office of Disability Services, 126A B&E, (803) 641-3609, as soon as possible. The Disability Services Office will determine appropriate accommodations based on medical documentation.

Geology 101 – Physical Geology, Fall 2005

| Date | Quiz/Exam | Lecture | Lab |
|--------|--------------|----------------------------------|----------|
| 22-Aug | | Introduction | |
| 24-Aug | | Earth and Earth's Systems | |
| 29-Aug | | Field Trip | |
| 31-Aug | | Field Trip | |
| 5-Sep | | HOLIDAY | |
| 7-Sep | | Minerals | |
| 12-Sep | | Minerals | |
| 14-Sep | Mineral Quiz | The Rock Cycle and Igneous Rocks | |
| 19-Sep | | Sedimentary Rocks | |
| 21-Sep | | Igneous Rocks | |
| 26-Sep | | Metamorphic Rocks | |
| 28-Sep | Rock Quiz | Weathering | |
| 3-Oct | | Geologic Time | |
| 5-Oct | Exam 1 | MID TERM | |
| 10-Oct | | Structure | |
| 12-Oct | | Ocean-Atmosphere System | |
| 17-Oct | | River Systems | |
| 19-Oct | | Groundwater | |
| 24-Oct | | SPRING BREAK | |
| 26-Oct | | SPRING BREAK | |
| 31-Oct | | Shorelines | |
| 2-Nov | | Glaciers and Eolian Systems | |
| 7-Nov | Exam 2 | Slopes and Mass Wasting | |
| 9-Nov | | Plate Tectonics and Boundaries | |
| 14-Nov | | Seismicity | |
| 16-Nov | | Hot Spots and Mantle Plumes | |
| 21-Nov | Exam 3 | | |
| 23-Nov | | HOLIDAY | |
| 28-Nov | | | |
| 30-Nov | | Earth's Resources and Hazards | Last Day |
| 12-Dec | Final | 8:00 | |