

Earth and Space Systems Laboratory

Geology 251 sect. 001 and 002, Fall 2009

Professor: Dr. Gwen M. Daley **Meets:** MW 11:00-12:30(sect 001) or 12:30-1:45(sect 002)
Office: 213F **Room:** Sims 201
Phone: 323-4973 **Office Hours:** T 9:30-11:30 and by appointment
E-mail: daleyg@winthrop.edu **Turnitin Class ID:** 2784661 ; **Password:** rock

Co-Requisite: Geol 251 (Earth and Space Systems Laboratory).

Objectives: To understand the range of processes responsible for the composition and morphology and of planet Earth and how the scientific method is used to study the interactions within and between the lithosphere, atmosphere, biosphere, and hydrosphere.

Credit Hours: 1

| Date | Lab (MW) | Notes |
|--------------|--|--------------------------------------|
| 8/26 | no lab | |
| 8/31 | Weights and measures | |
| 9/2 | Movement in the sky | Quiz One: Metric System |
| 9/7 | Precession of the equinoxes | |
| 9/9 | Earth, Sun and Moon | |
| 9/14 | Lab Notebooks Due | |
| 9/16 | Seasons | |
| 9/21 | Atmosphere I | |
| 9/23 | Atmosphere II | |
| 9/28 | Weather Cyler | Quiz Two: Atmosphere |
| 9/30 | Streams | |
| 10/5 | Groundwater I | |
| 10/7 | Groundwater II | Quiz Three: Groundwater |
| 10/12 | Lab Notebooks Due | |
| 10/14 | Minerals I | |
| 10/19-10/21 | <i>Fall Break / GSA Meeting - No Lab</i> | |
| 10/26 | Minerals II | |
| 10/28 | Igneous rocks | Quiz Four: Minerals |
| 11/2 | Weathering | Quiz Five: Igneous rocks |
| 11/4 | Sedimentary rocks | |
| 11/9 | Metamorphic rocks | Quiz Six: Sedimentary rocks |
| 11/11 | Lab Notebook Due | |
| 11/16 | Earthquakes | Quiz Seven: Metamorphic rocks |
| 11/18 | Plate Tectonics I | |
| 11/23 | Plate Tectonics II | |
| 11/25 | <i>Thanksgiving Break - No Labs</i> | |
| 11/30 | Geologic Time I | |
| 12/2 | Geologic Time II | |
| 12/7 | Lab Notebooks Due | |

Lab topics and schedule subject to change

General Education Requirements: Geol 250 and the co-requisite Geol 251 together fulfill four hours of general education requirement for natural sciences. For details, please see your Geol 250 syllabus.

Attendance: Lab attendance is mandatory and necessary. You must be ready to start the laboratory activities at the scheduled beginning of lab time. If you arrive late to lab, or are not prepared, you may not be allowed to participate in the laboratory activities. You also must complete the lab during the lab meeting to be awarded credit for that lab.

Student Learning Activities Performance Measures: Grades in this class will be assigned based on the results of the following:

| | | |
|---------------------------|---------|------|
| Labs (25) | 2% each | 50% |
| Lab Write-ups (15) | 1% each | 15% |
| Quizzes (7) | 5% each | 35% |
| Total: | | 100% |

Grades will be calculated on a straight scale:

| | | | |
|-----------|----------|----------|----------|
| A | 90-100 | C | 70-76.99 |
| B+ | 87-89.99 | D | 60-69 |
| B | 80-86.99 | F | <60 |
| C+ | 77-79.99 | | |

This scale may be adjusted downward as determined by the instructor, but the points needed for each grade will never be higher than indicated above (e.g., a student with more than 90 points will always receive a grade of A).

Lab Notebook: You will be required to maintain a lab notebook (a standard 1 inch or thicker 3-ring binder) that is only used for Geol 251. The lab notebook must be labeled on the front and spine with your name. All of your lab exercises, handouts and graded quizzes must be **bound** in this notebook and turned in on the dates indicated on the schedule. Loose papers (e.g., those placed in a binders folders) will not count toward the lab grade.

Quizzes: Each quiz will be based on material covered in previous labs. Missed quizzes can not be made up without either written proof of an emergency or prior arrangement. Assume that the quiz will be given at the beginning of lab unless otherwise indicated by the professor. If you arrive late, you will not be allowed to take the quiz.

Lab Write-ups: You will be required to submit a write-up for one lab each week (note: if there is only one lab during a week, you must do a write-up for that lab). A template for the lab write-ups is available in the "Registered Students Only" section of the Geol 251 website. An electronic copy of the lab write-up for that week is due to Turnitin before noon on Friday, and ***no late work*** will be accepted. Extensions on lab write-ups may be requested up to Thursday at midnight. After Thursday, the write-up can not be turned in for a grade without written proof of emergency. To ask for an extension, please submit a request via e-mail. The professor may or may not grant an extension.

Classroom Decorum: As a courtesy to other students, please be aware of how your behavior (e.g., holding conversations during lecture) affects the learning environment. No food of any kind is allowed in Sims 201 at any time. Also, please turn off all cell phones and other electronic devices. If your cell phone goes off during lab, you will be asked to leave. If it goes off during a quiz, your quiz will be collected and you will be asked to leave.

Student Code of Conduct: Your grade is based on work you have done. Any attempt to submit someone else's work as your own is plagiarism, and thus cheating. Substantially identical work submitted by more than one student will all be assigned a grade of zero, and further action may be taken. Attempting to use any unauthorized material during exams (including calculators or other electronic devices) is strictly forbidden, and is cheating. Unethical behavior such as cheating could result in a grade of "F" for the course, and other unpleasant action may also be taken. See your student handbook for more details.

Students with Disabilities: Winthrop University is dedicated to providing access to education. If you have a disability and need classroom accommodations, please contact Gena Smith, Coordinator, Services for Students with Disabilities, at 323-3290, as soon as possible. Once you have your professor notification form, please contact me so that I am aware of your accommodations well before the first exam.