

Earth and Space Systems

Geology 250, Fall 2007

Professor: Dr. Gwen M. Daley **Meets:** MW 9:00-10:15 am
Office: 213F **Room:** Sims 201
Phone: 323-4973 **Office Hours:** T 11-12:30; R 11-12 and by appointment
E-mail: daleyg@winthrop.edu **Text:** Marshak, 2005. Earth: Portrait of a Planet, 2nd Edition.

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.

Date	Lecture Topic (MW)	Reading
8/22	1. Introduction	1-8
8/27	2. Scientific Methods	9; 750
8/29	3. History of the Universe	17-21; Box 5.1 (111)
9/3	4. Stars and Elemental Synthesis	21-23
9/5	5. The Earth's Solar System	23-30
9/10	Exam #1	
9/12	6. Seasonality	635
9/17	7. The Earth's Atmosphere	625-638
9/19	8. Weather I	638-648
9/24	9. Weather II	638-648
9/26	10. The Hydrologic Cycle	526-554
10/1	11. Groundwater I	598-606
10/3	12. Groundwater II	610-615
10/8	Exam #2	
10/10	13. Seismology and the Earth's Interior	275-296
10/15	<i>Fall Break – No class</i>	
10/17	14. Minerals I	108-121
10/22	15. Minerals II	122-129
10/24	16. Igneous Rocks and Processes	130-159
10/29	<i>No class meeting</i>	
10/31	<i>No class meeting</i>	
11/5	17. Weathering	165-174
11/7	18. Sedimentary Rocks and Processes	180-201
11/12	19. Metamorphic Rocks and Processes	207-227; 234-239
11/14	Exam #3	
11/19	20. Plate Tectonics I	49-73
11/21	<i>Thanksgiving – No class</i>	
11/26	21. Plate Tectonics II	74-104
11/28	22. Geologic Time I	377-391
12/3	23. Geologic Time II	391-404
12/7	Final Exam (8:00 AM)	

Schedule subject to change

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Attendance: Class attendance is mandatory and necessary.

Grading: Grades in this class will be assigned based on the results of the following:

Exams (4)	20% each	80%
Astronomical Observation Project		10%
Pop Quizzes (3)	3%, 3%, 4%	10%
Total:		100%

Grades will be calculated on a straight scale:

- A** 90-100
- B** 80-89
- C** 70-79
- D** 60-69
- F** <60

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).

The three pop quizzes will be based on the reading(s) for that day's lecture and lab. Each will be given at the beginning of the class period, and students will have 15 minutes to complete the quiz. Pop quizzes can not be made up.

Missed exams can not be made up without either *written* proof of an emergency or prior arrangement. Assignments are due on the due date indicated on the assignment, and no late work will be accepted. Extensions can be obtained prior to the due date, but once the due date has passed, the assignment can not be turned in for a grade without proof of emergency.

Statement on Cheating: Your grade will be 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 material stored on calculators or other electronic devices) is strictly forbidden, and is cheating. Unethical behavior such as cheating will 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, please tell me so that I am aware of your accommodations well before the first exam.