

Historical Geology Laboratory

Geol 211, section 002, Fall 2013

Professor: Dr. Gwen M. Daley
Office: Sims 213F
Phone: 323-4973
E-mail: daleyg@winthrop.edu
Credit Hours: 1

Meets: T 12:30-3:15 PM
Room: Sims 202
Office Hours: T 9:30-11:30 and by appointment
Text: Poort and Carlson, Historical Geology, 6th Edition (Only the 6th Edition is acceptable - do not buy used copies)
Course Website Password: rock

Course Goals: To explore the major processes responsible for shaping the Earth through time and the relationships of those processes to the distribution of different landscapes, oceans, and resources on Earth.

Date	Lab Topic	Reading
8/20	No Lab Meeting	
8/27	1. Plate Tectonics	Chpt. 6: 244-247
9/3	2. Rock Cycle and Sedimentary Rocks	Chpt. 1: 1-37; Quiz One: Plate Tectonics
9/10	3. Rock Cycle and Sedimentary Rocks (cont.)	Chpt. 1: 1-37;
9/17	4. Geologic Time	Chpt. 2: 53-70; Quiz Two: Sedimentary Rocks
9/24	5. Geologic Time (cont.)	Chpt. 2: 53-70
10/1	6. Paleontology I	Chpt. 4: 142-156
10/8	7. Paleontology II	Chpt. 4: 156-198; Quiz Three: Paleontology I
10/15	No Lab Meeting	<i>Fall Break</i>
10/22	8. Topographic Maps	Handout
10/29	No Lab Meeting	Geological Society of America Meeting
11/5	9. Physical Stratigraphy	Chpt. 3: 92-121; Quiz Four: Topographic Maps
11/12	10. Physical Stratigraphy (cont.)	Chpt. 3: 121-141
11/19	11. Geologic Map Interpretation	Chpt. 5: 212-216; Quiz Five: Physical Stratigraphy
11/26	No Lab Meeting	<i>Thanksgiving Break</i>

Schedule subject to change

Attendance: Lab attendance is both mandatory and necessary. You must be ready to start the laboratory at the start of the lab period, or you may not be allowed to complete the lab. Being ready to start the lab includes, but is not limited to, having printed out all of the lab documents from the course website and completing all of the readings from the lab workbook.

Course Workbook: It is your responsibility to acquire the lab workbook (Poort and Carlson, Historical Geology, 6th Edition) before the first lab meeting and bring that lab workbook to every lab meeting. Earlier editions of the Port and Carlson will not be acceptable in this course. Do not buy used copies of the lab workbook as these are invariably missing pages that you will need to complete the laboratory exercises. If you do not bring the correct edition of the lab workbook, you will be awarded a grade of zero for that laboratory exercise.

Geol 211 – Historical Geology Laboratory - Fall 2013

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

Twelve (12) Lab Exercises	6% each	72%
Five (5) Quizzes	5% each	25%
One (1) Pop Quiz	3% each	3%
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).

General Education Requirements: When taken with Geol 210, Geol 211 fulfills one hour of the Touchstone requirement for natural sciences. Listed below are the fundamental student learning outcomes for natural science courses as well as examples of how they will be fulfilled in Geol 211.

Students should be:

1. Conversant with a few fundamental concepts from among the three main areas of natural science, including earth, life, and physical sciences. (e.g., historical geology, interpretation of geology maps, etc.)
2. Able to apply the scientific methodologies of inquiry. (e.g., Geol 211 laboratory exercises and experiments)
4. Able to demonstrate an understanding of the history of scientific discovery. (e.g., the development of the plate tectonics, discovery of geologic time)
6. Able to communicate about scientific subjects including (lab courses only) the defense of conclusions based on one's own observations. (e.g., Geol 210 laboratory write-ups)
7. Able to discuss the application of scientific knowledge to the social sciences and to non-scientific disciplines. (e.g., the use of geologic data to make political and economic decisions about land usage)

University Level Competencies: Students in Geol 211 will fulfill Winthrop ULC #1: Winthrop graduates think critically and solve problems. Geol 250/251 students will have ample opportunities to reason logically, evaluate and use evidence, and solve problems related to historical geology. They will be assessed on their ability to reach well-reasoned conclusions based on scientific evidence.

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 202 at any time. If you need to dispose of food items before lab, please put them in the trash canister in the hallway outside of Sims 202. Do not bring food into Sims 202. 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 and no credit will be given for that lab exercise. 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 will be based on work you have done. Any attempt to submit anyone 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 will result in a grade of "F" for the course and other unpleasant action may also be taken. Please see your student handbook for more details.

Class E-mail: I will send out class e-mail messages using Wingspan's "e-mail registered student" function, so potentially important e-mail messages will be sent to whatever e-mail you supplied to the registrar. Please check that account regularly for information about this course.

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 we can work out how the accommodations will work in the laboratory environment.