

Physical Geology (GEOL 110)

Sections 001 (15685) 002 (15686) and 003 (16346)

Professor: Dr. Gwen M. Daley Office: Sims 214 Office Hours: R 11:00-1:00 & by appointment Phone: 323-4973 E-mail: daleyg@winthrop.edu	Meets: Virtually Room: Cyberspace Text: Earth: Portrait of a Planet, 5 th edition Credit Hours: 3 My Pronouns: she, her, hers
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Objectives: To explore the major processes responsible for shaping the physical Earth and the relationships of those processes to the distribution of different landscapes, oceans, and mineral resources on Earth.

Week beginning:	Subject	Readings
8/22	1. Introduction to the Earth	Chpt 1, 2
8/29	2. Minerals	Chpt 5
9/5	3. Igneous Processes	Interlude A, Chpt 6, 9
9/12	4. Sedimentary Processes	Interlude B, Chpt 7
9/19	5. Metamorphic Processes	Interlude C, Chpt 8
9/26	6. Seismology	Chpt 10
10/3	7. Plate Tectonics	Chpt 3,4
10/10	Midterm Exam	
10/17	9. Geologic Time	Interlude E, Chpt 12, 13
10/24	10. Water	
10/31	11. Mass Wasting	Interlude F, Chpt 17, 19
11/7	12. The Ocean	Chpt 16
11/14	13. Resources	Chpt 18
11/21 and 11/28	Mineral Commodity Presentation (due 12/4)	Chpt 14,15
12/7-12/9	Final Exam	

Schedule subject to change.

If you find an issue with the design of the course, please contact me and I will try to resolve it. We will not meet face to face unless you come to my office hours, we decide to meet as a class, or some similar occasion. If you are interested, here is Winthrop University's policy on online and distance education:

<https://www.winthrop.edu/uploadedFiles/onlinelearning/DistanceEducationOnlineEducationPolicy.pdf>



Office Hours: Please drop by during my scheduled office hours (Thursday, 11:00-1:00) if you would like to discuss anything about the class. Because of privacy issues, I will only discuss your grade (including possible grading errors, etc.) with you in my office or virtually on Blackboard Collaborate Ultra, so if you cannot attend to my scheduled office hours, please send me an e-mail to make an appointment. Monday, Wednesday, and Friday mornings are the best times to make an appointment with me. If you would like to discuss anything you would rather not discuss in an open forum (e.g., your grades), please send me an e-mail (which I will also monitor in real time during office hours).

Contact Via E-mail: I will send important course-related material to the e-mail that is listed in Blackboard for you. Please check that account regularly so that you don't miss important information. Under normal circumstances, I answer e-mail promptly (usually the same day). However, I will not answer e-mails that arrive after 6:00 PM until the next day. I serve on several committees with heavy workloads and thus on days when those committees meet, I may not answer e-mails until evening. I also teach traditional sections of Geol 360, which meet on Tuesday and Thursday mornings. Please do not assume that if I get back to you within minutes on one day that you will get the same instant response on other days. Please also be sensible about resending e-mail; assume that I got your e-mail unless I do not answer you within 48 hours on workdays (Monday through Friday). I will try to answer e-mails sent over the weekend quickly, but I will be doing fieldwork and other activities that may prevent me from being online.



Policy on Late Work: **I do not accept late work.** If you need an accommodation for a serious illness or family emergency, you will need to get a Student Absence Notice from the Dean of Students Office, who will send an e-mail to all of your professors outlining your need for more time to complete work. They do a very good job of keeping your professors informed as well as offering university resources to students in crisis.

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

Midterm (1)	15%
Reading Quizzes	10%
Blackboard instructional material and exercises	30%
Blackboard Quizzes	20%
Mineral Resource Presentation	5%
One (1) comprehensive final exam	20%
Total	100%

We will be using learning modules in Blackboard to organize the course, all of which will be located on the "Content" page along with the syllabus and other useful documents. If you are not familiar with using Blackboard learning modules, they are relatively straightforward. You can page through the content in the module either using the left-hand menu (which can be customized) to the immediate left of the box, or by paging back and forth using the arrows at the top of the box. As I am still working on these modules, they are not all ready to go. The ones that I am still working on are marked with an asterisk (*) after the name. Please pay close attention to the due dates, as no late work will be accepted. Each module consists of:

- Reading Quizzes (10%):** We will start each week with the assigned reading followed by a quiz on what you learned. The Reading Quizzes will be worth 10% of your final grade. Questions from the Reading Quizzes may reappear on the midterm exam and the final exam.
- Blackboard Learning Exercises (30%):** Following the LS assignments and quizzes, you will find a series of learning exercises. These will include instructional material such as Powerpoint presentations and videos as well as assessment tools such as short exercises, journal entries, and/or other graded writing assignments. The exercises work best if they are done in the order in which they appear in the learning module, but if you would like to jump around, you are welcome to do so. The Blackboard learning exercises (combined) are worth 30% of your final grade.
- Blackboard Quizzes (20%):** Each learning module ends with a Blackboard quiz. Each quiz contains 5-15 questions that primarily cover the material discussed in the learning module after the textbook readings. If there is a short exercise or writing exercise on a subject, count on that subject being covered in this quiz, but any subject is fair game for a quiz questions. All Blackboard quizzes (combined) are worth 20% of your final grade. Questions from the Blackboard Quizzes may appear on mid-term exams and the final exam.
- Midterm (15%):** There will be one midterm in this course, worth 15% of the final grade. Midterms will draw heavily from Reading quizzes and Blackboard quizzes (see above)
- Presentation on Mineral Commodity Resources (5%):** You will be required to do an online presentation (e.g., a video) on mineral commodity resources at the end of the semester, which will be worth 5% of your final grade. The information about the presentation will appear on the course Blackboard page by the end of the first week of classes. The presentations themselves will be due late in the semester. Each student will be responsible for presenting information about one mineral commodity resource used in U.S. industry, including how it is extracted and processed as well as any political, environmental or other issues associated with its extraction, processing or use. Please see instructions on the course website for more information.
- Final Exam (20%):** The final 20% of the grade is for the comprehensive final. It will be posted on Blackboard on midnight of Wednesday of exam week. The deadline for completing it is Friday of exam week before midnight.

Grades will be calculated on a straight scale:

A	90.00 - 100.00	C	70.00 - 76.99
B+	87.00 - 89.99	D	60.00 - 69.99
B	80.00 - 86.99	F	< 60.00
C+	77.00 - 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). I give plusses but not minuses because the Winthrop grading system is unbalanced (there is no A+ to balance the C-). I do not give the D+ or F+ grade because those are silly designations.



Blackboard

Blackboard: Blackboard is the main delivery vehicle for this online course. If you are not familiar with how Blackboard works, support documents are available through Winthrop's IT department:

<https://www.winthrop.edu/onlinelearning/student-training-and-resources.aspx>

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. Copying another student's work and submitting it as your own is plagiarism, whether the other student agreed to allow you copy the material or not. You may not consult or work with other students on graded work for this class unless the professor specifically indicates that collaboration is allowed. Substantially similar 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 quizzes or exams (including calculators or other electronic devices) is strictly forbidden, and is cheating.

We will be using Blackboard's version of the Respondus Lockdown Browser. Please see your Blackboard content area for Geol 110 for more information.

Unethical behavior such as cheating will result in a grade of "F" for the course. All incidents of unethical behavior will be referred to the Dean of Students office, which may decide that further action is justified. Please see your student handbook for more details.

Global Learning Component: The global learning component(s) of this course are the following: discussions of the role of international trade in human rights violations in regards to natural resources; investigating the role of the dynamic Earth in controlling natural hazards to human life on a global basis (e.g., plate tectonic movement causing the earthquakes that create tsunami).



University Level Competencies #1:

Winthrop University graduates reason logically, evaluate and use evidence, and solve problems. They seek out and assess relevant information from multiple viewpoints to form well-reasoned conclusions. Winthrop graduates consider the full context and consequences of their decisions and continually reexamine their own critical thinking process, including the strengths and weaknesses of their arguments.

Winthrop graduates think critically and solve problems. Geol 110 students will have ample opportunities to reason logically, evaluate and use evidence, and solve problems related to the physical geology. You will be assessed on your ability to reach well-reasoned conclusions based on scientific evidence.

Student Learning Objectives: 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., *hydrology, plate tectonics, physical and historical geology, etc.*)
2. Able to apply the scientific methodologies of inquiry. (e.g., *Geol 113 laboratory exercises and experiments*)
3. Able to discuss the strengths and limitations of science. (e.g., *discussion of scientific methodology*)
4. Able to demonstrate an understanding of the history of scientific discovery. (e.g., *the development of the plate tectonics, discovery of geologic time*)
5. Able to discuss the social and ethical contexts within which science operates. (e.g., *plate tectonics paradigm shift, ethical*)

dilemmas in international commodity trade).

6. Able to communicate about scientific subjects including (lab courses only) the defense of conclusions based on one's own observations. (e.g., *Geol 113 laboratory write-ups*)
7. Able to discuss the application of scientific knowledge to the social sciences and to non-scientific disciplines. (e.g., *the uses of geologic data to make political and economic decisions about resources like water*)

General Education Writing Component: The general education writing component in this course is met by various Blackboard exercises that will require students to write in Standard English, with the understanding that their work will be graded using principles outlined in the General Education Writing Competency Rubric. Writing assignments will also be assigned in the co-requisite Geol 113 laboratory. Thank you for reading the syllabus. To be awarded 2 points of extra credit (added to your final grade), please send me an e-mail that contains "E*x" and your full name and course section before midnight on August 30th.

Students with Disabilities/Need of Accommodations for Access: Winthrop University is committed to providing access to education. If you have a condition that may adversely impact your ability to access academics and/or campus life, and you require specific accommodations to complete this course, contact the Office of Accessibility (OA) at 803-323-3290 or accessibility@winthrop.edu. Please inform me as early as possible, once you have your official notice of accommodations from the Office of Accessibility. That office will usually send me basic information about accommodations, but it is your responsibility to arrange those accommodations with me. If you choose not to make arrangements with me either in person or via e-mail, I can only assume that you do not need that accommodation for this course.

COVID-19 Syllabi statement

COVID-19 Statement: During this pandemic period each student is expected to act in the best interest of the WU community by behaving responsibly to limit the spread of the COVID-19 virus. It is strongly recommended to mask up in the presence of other people, especially inside buildings and classrooms. Please do not attend class if you have fever or any signs of the COVID virus; do not attend class if your roommate or someone you have close contact with acquires the virus and be respectful of others' desire to remain COVID-free. Use the Patient Portal COVID-19 Health Tracker daily. Students who violate WU guidelines will be asked to comply.

COVID-Related Absence: Students should contact Health Services regarding a positive test, close contact, or enhanced COVID-like symptoms. Any student who has either tested positive, has COVID-like symptoms, or has close contact with someone who has COVID, must contact Health Services. Students should log in to the Patient Portal to schedule a **TELEPHONE TRIAGE** Appointment w/ **COVID** as the reason and upload the positive test result if applicable. Health Services will communicate with the student on what steps to take next, and if need be, the Dean of Students Office will get absence verification for required isolation and quarantine. Students who verify their absences through the Dean of Students Office often minimize any academic impact caused by missed class time. Health Services will only provide dates of absence, not medical information. Please note, residential students who test positive should also follow their personal COVID Quarantine and Isolation Plan.

We are all in this pandemic together, so please be kind to yourselves and each other. If you need extra time to complete an assignment, ask for an extension. If you get COVID-19, take care of your health and follow Winthrop's plan.

Winthrop University's Academic Success Center is a free resource for all undergraduate students seeking to perform their best academically. The ASC offers a variety of personalized and structured resources that help students achieve academic excellence, such as peer tutoring and academic coaching. Please contact the ASC at 803-323-3929 or success@winthrop.edu. For more information on ASC services, please visit www.winthrop.edu/success.