



WBUonline
School of Mathematics and Sciences

WAYLAND MISSION STATEMENT: *Wayland Baptist University exists to educate students in an academically challenging, learning-focused, and distinctively Christian environment for professional success, lifelong learning, and service to God and humankind.*

COURSE NUMBER AND TITLE: GEOL 1401 - Physical Geology 1

TERM: SPRING 2 Term-2022, (March 14, 2022 – May 7th, 2022)

INSTRUCTOR: Hunter Green

Email: hunter.green@wayland.wbu.edu

Office Hours, Building and Location: Online (Email checked during regular business hours)

CATALOG DESCRIPTION: An introduction to rock and mineral materials, and the dynamic processes responsible for shaping Earth and providing our natural resources, such as plate tectonics, volcanism, and various surficial processes.

PREREQUISITES: Students may not take GEOL1401 after taking GEOL1403 without instructor consent.

REQUIRED TEXTBOOK AND RESOURCE MATERIALS: *Earth: An Introduction to Physical Geology, 13th ed*, (ISBN 13: 978-0-13-519112-5). NOTE: eTextbook cost included at registration through the WBU Automatic eBook program. The above ISBN is provided for students who choose to acquire class resources independently*.

IMPORTANT: As an 8-week term, the course is very fast paced so it is imperative to have all course materials the first week of class!

*In addition to the textbook, online access to MasteringGeology is required for completion of class activities. This access IS included with the Automatic eBook program. If a student chooses to OPT-OUT of the eTextbook through Automatic eBook, purchase of the book AND access to MasteringGeology will require additional cost for online registration in order to participate in the class (*other ISBN than listed above may not include this access*-used or rented textbooks may require additional cost for purchase of the online access registration to MasteringGeology). The deadline to OPT-OUT of the eTextbook through Automatic eBook in the classroom must be completed no later than **03/21/2022**.

COMPUTER/SOFTWARE REQUIREMENTS: Software required includes an internet browser Firefox, Safari, Chrome, or Edge (check version compatibility on Blackboard login page-"Test Your Browser"), JAVA, and a current version of Microsoft Word. A high-speed internet connection is *highly recommended* due to some large file sizes and streaming media. The use of mobile devices (i.e. cell phone or tablet) may not work for some activities.

IMPORTANT NOTES: *As an online course, it is imperative that you have reliable access to the internet. Excuses for assignments being late due to internet reliability issues or computer failure will not be accepted. The best way to avoid problems is to get assignments done early, so that if problems should arise, you can effectively deal with them prior to deadlines.*

The use of a Wayland Baptist University email account is mandatory for all correspondence in this course— this is the official means of communication between faculty and students. If you require assistance in getting this accessing your account, there is a link under "Web Resources" or contact the IT department at itsupport@wbu.edu. Email from any other email account may not receive a response.

OUTCOME COMPETENCIES: Upon completion of the course the student will

- Understand current theories of the origin of the solar system and planetary differentiation
- Be able to identify common rocks and minerals
- Have knowledge of the current state of Plate Tectonics theory
- Understand major concepts used in study of the history of the earth
- Have knowledge of surface and subsurface geologic processes (e.g. volcanism, earthquakes)

- Be able to relate these processes to a plate tectonics reference frame

ATTENDANCE-TIME COMMITMENT: The University expects students to make class attendance a priority. Attendance in the context of a Virtual Campus course implies logging into the Blackboard system and checking for announcements, viewing lecture materials, working on assignments, etc. on a regular basis, preferably twice a week at a minimum.

This is a four-hour lab course. As a lab class, it will take a greater commitment of time than other courses. If a student has previously taken online classes, they may find that this course takes much more time to complete. In a traditional classroom setting, this class would meet for about 3 hours per week PLUS another 2 hours for lab. A good rule of thumb is that students should reserve AT LEAST twice as many hours outside of class as they spend in-class to review material and complete assignments. While virtual campus students have the benefit of flexibility in scheduling when they will review lecture and course materials, the content of this course is NOT reduced from the traditional format and will require AT LEAST the same level of effort as the in-class version of the course! Therefore, in order to succeed in this course, students should be prepared to invest a MINIMUM of 15 HOURS per week, with additional effort required to study for assignments or to prepare for exams.

The course is not designed as a self-paced course and will be very difficult if the student falls behind.

NOTE: If any student expects special consideration because of family, job requirements and/or taking other classes, please do not enroll in this course. In order to remain fair to everyone, expectations are the same for all students. It is up to each student to decide prior to enrolling if they will have adequate time to commit to the course. No excuses because of other classes or commitments will be accepted for student's failure to comply with these requirements.

STATEMENT ON PLAGIARISM AND ACADEMIC DISHONESTY: Wayland Baptist University observes a zero-tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported, and second offenses will result in suspension from the university.

DISABILITY STATEMENT: In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765. Documentation of a disability must accompany any request for accommodations.

COURSE REQUIREMENTS and GRADING CRITERIA: Students will be evaluated by examinations, class assignments, etc. as described below.

Labs: All labs are due no later than the date AND time listed on the posted DUE DATES document. Time is based on Plainview time (Central Time Zone U.S.). Late labs are graded as 0. Students should allow *at least* 3 hours per week to complete lab activities. In order to pass the course, a passing grade must be earned on at least 50% of labs. There will be 8 labs posted. Students are expected to complete any 7 lab assignments for regular credit. If a student chooses to complete all 8, the 8th is counted as extra credit. Labs may be completed in advance of the week assigned but should be completed in the order listed.

Online forums/participation assignments: Several questions/discussion topics will be posted during the term. Students are expected to respond to these postings *and* to each other's responses. The topics may be of current events, new discoveries, or any variety of Earth science related issues. Student responses may require some additional reading and extensive thought or may be just asking for an opinion.

Exams: There will be a total of 4 exams during the semester. The lowest score of one of the first 3 exams will be automatically dropped (the 4th/final exam score cannot be dropped). All tests are to be completed online and have specific dates for completion (to be announced). Tests not completed by that date will be graded as zero. *With the exception of the final*, exams are open book. However, exams are designed to test a student's knowledge of the material and not their ability to look up questions. All exams are set to be completed within a specific amount of time. There is ample time to complete each exam provided adequate preparation. There will not be enough time to complete these exams if a student attempts to lookup the majority of question. Exceeding the time limit will result in a deduction of points.

NOTE: Due to university policy (stated in the student handbook), the final exam CANNOT be administered earlier than posted dates. The final will only be available Tuesday through Saturday, the final week of the term.

GRADING CRITERIA: University Grading System: A=90-100, B=80-89, C =70-79, D=60-69, F=below 60. The final class grade is based on the average of grades that are earned as listed below.

		Points
Pearson Assignments	best 7 of 8 (8 th is extra credit)	175
Lab Assignments	best 7 of 8 (8 th is extra credit)	175
Participation	4 – Discussion board topics	150
Exams	best 2 of 3 (150 pts. each)	300
Final Exam**		200
Total		1000

Students who do not participate in discussions or pass at least half of the homework assignments will automatically fail the course.

GRADE APPEAL STATEMENT: *Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.*

COURSE SCHEDULE OUTLINE: (refer to “Due Dates” document posted in Blackboard for the specific dates that all coursework will be available and the deadline for submission).

Week #:	Subject	Chapters Covered
1	Introduction to Geology, Matter and Minerals	1, 3
2	Igneous Rocks and Intrusive Activity, Volcanoes and Volcanic Hazards	4, 5
3	Weathering, Sedimentary Rocks	6, 7
4	Metamorphism & Metamorphic Rocks, Geologic Time	8, 9
5	Crustal Deformation, Earthquakes and Earthquake Hazards	10, 11
6	Earth's Interior, Origin and Evolution of the Ocean Floor	12, 13
7	Plate Tectonics, Mountain Building	2, 14
8	Running Water, Groundwater	16, 17

EXAM 1 covers weeks 1-2

EXAM 2 covers weeks 3-4

EXAM 3 covers weeks 5-6

EXAM 4 (Final exam)** covers weeks 1-8 (approximately ½ of questions will be from weeks 7-8 with remaining questions being comprehensive-chapters 1-17).

NOTES: The instructor expects emails with questions or other concerns about the class or any course activities. Communication with the instructor regarding due dates should be initiated **BEFORE** items are due.

Exams, participation assignments and homework assignments are set to close at a pre-determined time (based on Plainview-CT). **Failure to submit any coursework by the posted deadline will result in a zero.**

This outline and other syllabus items are subject to change at university or instructor discretion.

Exception for serious illness (hospital time) or major emergencies may be allowed only at instructor discretion. You may be required to furnish evidence of any extenuating circumstances. If you are military and will be going TDY during the course, you need to let me know ahead of time (verification from a commanding officer may be required).

GEOL 1401 VC – Spring 2 2021

DUE DATES: Print this file and check often. MARK YOUR CALENDARS!!!

Below is a course schedule laid out for when assignments (participation discussions, labs, and exams) are available their due date. Most coursework is available on Monday of each week and due on Sunday of each week. Use 11:59 p.m. (Central Time-U.S.) as the cutoff time for the dates listed below (make sure that you submit your assignments based on the time zone in Plainview, TX and NOT where you live). *Remember –all late assignments –INCLUDING EXAMS are counted as "0" (unless prior arrangements are made)!!*

NOTE: the first participation assignment consisting of the *Email check/acknowledgment* and *Personal Profile* are due by end of day Wednesday, 03/16/2022 (instructions are listed in announcement posted first day of class). I am required by the university to submit attendance records at that time confirming some type of activity submission by each student.

In order to access ANY of the weekly directories (containing lecture notes or course assignments) or exams, you MUST complete the *Introductory Activity* posted under *Weekly Content*.

GEOL 1401 VC Spring 1 Course Calendar		
Week	Date	Assignments
1	Monday, March 14, 2022	Participation 1, Lab 1 - Available
1	Tuesday, March 15, 2022	
1	Wednesday, March 16, 2022	Participation 1 - Due
1	Thursday, March 17, 2022	
1	Friday, March 18, 2022	
1	Saturday, March 19, 2022	
1	Sunday, March 20, 2022	Lab 1 - Due
2	Monday, March 21, 2022	Participation 2, Lab 2 - Available
2	Tuesday, March 22, 2022	
2	Wednesday, March 23, 2022	
2	Thursday, March 24, 2022	Initial Participation Comments 2 - Due
2	Friday, March 25, 2022	
2	Saturday, March 26, 2022	
2	Sunday, March 27, 2022	Lab 2 - Due
3	Monday, March 28, 2022	Lab 3, Exam 1 - Available
3	Tuesday, March 29, 2022	
3	Wednesday, March 30, 2022	
3	Thursday, March 31, 2022	Reply to Participation 2 - Due
3	Friday, April 1, 2022	
3	Saturday, April 2, 2022	
3	Sunday, April 3, 2022	Lab 3, Exam 1 - Due
4	Monday, April 4, 2022	Participation 3, Lab 4 - Available
4	Tuesday, April 5, 2022	
4	Wednesday, April 6, 2022	
4	Thursday, April 7, 2022	Initial Participation Comments 3 - Due
4	Friday, April 8, 2022	
4	Saturday, April 9, 2022	
4	Sunday, April 10, 2022	Lab 4 - Due
5	Monday, April 11, 2022	Exam 2, Lab 5 - Available
5	Tuesday, April 12, 2022	
5	Wednesday, April 13, 2022	
5	Thursday, April 14, 2022	Reply to Participation 3 - Due
5	Friday, April 15, 2022	
5	Saturday, April 16, 2022	
5	Sunday, April 17, 2022	
6	Monday, April 18, 2022	Easter Monday
6	Tuesday, April 19, 2022	Exam 2, Lab 5 - Due; Participation 4, Lab 6 - Available
6	Wednesday, April 20, 2022	
6	Thursday, April 21, 2022	Initial Participation Comments 4 - Due
6	Friday, April 22, 2022	
6	Saturday, April 23, 2022	
6	Sunday, April 24, 2022	Lab 6 - Due
7	Monday, April 25, 2022	Exam 3, Lab 7 - Available
7	Tuesday, April 26, 2022	
7	Wednesday, April 27, 2022	
7	Thursday, April 28, 2022	Reply to Participation Comments 4
7	Friday, April 29, 2022	
7	Saturday, April 30, 2022	
7	Sunday, May 1, 2022	Exam 3, Lab 7 - Due
8	Monday, May 2, 2022	Final Exam, Lab 8 - Available
8	Tuesday, May 3, 2022	
8	Wednesday, May 4, 2022	
8	Thursday, May 5, 2022	
8	Friday, May 6, 2022	
8	Saturday, May 7, 2022	Final Exam, Lab 8 - Due
8	Sunday, May 8, 2022	