

GEOL 1101 Earth Science Lab (1 credit)
Summer II 2020
Section D2Z, BZ1, HZ1 Meets online

Instructor: Dr. Heather L. Lehto
Email: Heather.Lehto@angelo.edu
Virtual Office Hours: Online through Collaborate, TBD
Prerequisite courses: None

PREREQUISITE SKILLS

Accessing internet web sites, use of ASU Library resources, and proficiency with Microsoft Word and/or PowerPoint are expectations of this course. Computer access requirements are further delineated in the Undergraduate Handbook. Tutorials for ASU Library and for Blackboard are available through RamPort. The ASU Undergraduate Student Handbook should be reviewed before taking this course.

COURSE DELIVERY

This is an online course offering. The course will be delivered via the [Blackboard Learning Management System](#)ⁱ. As this course is taught over the summer it is fast-paced. We will often cover one chapter per day. All course material will be available to you from the first day of the course and you can work at your own pace. However, to keep the course moving and to allow the efficient grading of labs there are due dates for everything. Any due date will be the at 11:59PM on the date posted, unless otherwise stated.

COURSE DESCRIPTION

An introduction to the study of the Earth including the atmosphere, geosphere, hydrosphere, and cryosphere. The course will cover general overview of topics such as: rocks and minerals, streams, the ocean, groundwater, weather, climate, plate tectonics, and natural hazards.

REQUIRED MATERIALS:

- TEXTBOOK: Earth Science: The Earth, Atmosphere, and Space, by Stephen Marshak and Robert Rauber¹
- Smartwork Access Code (buy with textbook or separately)
- ASU email account that you check regularly
- Blackboard
- Computer with MAC or Windows Operating System
- High Speed Internet Access
- Webcam and microphone
- Refer to [Angelo State University's Distance Education website](#)ⁱⁱ for further technology requirements.

¹ A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

STUDENT LEARNING OBJECTIVES

Learning outcomes will be evaluated by online discussions, Smartwork homework assignments, exams, a group project, and an IDEA course evaluation.

Student Learning Outcomes By completing this course, the student should be able to:	Assignment(s) or activity(ies) validating outcome achievement:
Describe the structure of the Earth and the materials it is made of.	Pre-lab Reading Quiz and Lab Activity: 2
Place geologic events in order using the geologic principles and correlate layers on a regional scale.	Pre-lab Reading Quiz and Lab Activity: 6
Describe how water moves around the Earth.	Pre-lab Reading Quiz and Lab Activity: 7 & 8
Explain the fundamental processes that create weather and control climate.	Pre-lab Reading Quiz and Lab Activity: 8 & 9
Describe how the universe and solar system were formed and their current structure.	Pre-lab Reading Quiz and Lab Activity: 10

GRADING

10 Pre-lab Reading Quizzes (4% each)	40%
10 Lab Activities (6% each)	60%

GRADING SYSTEM

100-90%	A
89-90%	B
79-70%	C
69-60%	D
59-0%	F

SMARTWORK LAB ACTIVITIES

Several of the lab activities will be completed using Smartwork. You will need to register with Smartwork using the registration code you got when you purchased the book. If you did not purchase a code with your book you can purchase a code separately. Use the following instructions to create an account with Smartwork (Note: If you already created an account for lecture you do NOT need to create another account):

To enroll in SmartWork you will need a valid email address and a Registration Code from W. W. Norton. Registration codes are bundled with new books at your instructor's request. If you do not have a registration code, you may purchase one separately.

REGISTER FOR SMARTWORK

1. Click on the link for any Smartwork Assignment from the Smartwork Assignments Link in the menu in Blackboard.

2. Select "No, I need to register, purchase, or sign up for trial access." Click the green button to continue.
3. Fill out all fields and enter either the registration code that came with your book or select the "I want to purchase access" option. NOTE: Use your ASU email as the email address for you Smartwork account. Don't forget to record your account information for future reference!

ALWAYS access your Smartwork Lab Activities through the links in Blackboard so that your grade will be recorded correctly.

For each lab activity you will complete a list of questions. You can submit answers to the questions up to 3 times, however, each additional submission after the first will cost you a 2% deduction on your grade. Don't just go guess until you get it right, it will cost you. The Smartwork system will give you hints tailored to help you understand the question when you answer incorrectly, so make sure you read the suggestions carefully.

STUDENT RESPONSIBILITY & ATTENDANCE

This class is asynchronous, meaning you do not have to be on-line at a certain time. There are readings which you will have to complete to be able to adequately participate in individual assignments and group discussions. In order to complete this course successfully, you do have to participate in all course activities i.e. discussion boards, group projects, homework, etc. Students are expected to engage in course activities and submit work by due dates and times. For planning purposes, this class will probably require a minimum of 3-6 study hours per week on average.

COMMUNICATION

Your professor will respond to email and/or telephone messages within 48 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

WRITTEN COMMUNICATION VIA BLACKBOARD

It is an expectation of this class that you use formal writing skills giving appropriate credit to the source for your ideas. Follow AMA 10th edition guidelines for referencing where needed.

WRITTEN COMMUNICATION VIA EMAIL

All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes.

USE GOOD "NETIQUETTE":

- Check the discussions frequently and respond appropriately and on subject.
- Focus on one subject per message and use pertinent subject titles.
- Capitalize words only to highlight a point or for titles. Otherwise, capitalizing is generally viewed as SHOUTING!
- Be professional and careful with your online interaction. Proper address for faculty is by formal title such as Dr. unless invited by faculty to use a less formal approach.
- Cite all quotes, references, and sources.
- When posting a long message, it is generally considered courteous to warn readers at the beginning of the message that it is a lengthy post.

- It is fine to use humor, but use it carefully. The absence of face-to-face cues can cause humor to be misinterpreted as criticism or flaming (angry, antagonistic criticism). Feel free to use emoticons such as J or :) to let others know you are being humorous.

(The "netiquette" guidelines were adapted from Arlene H. Rinald's article, The Net User Guidelines and Netiquette, Florida Atlantic University, 1994, available from Netcom.)

LAB SUBMISSION

In this class, some labs will be submitted through the Lab Activities link in the Blackboard course site. This is for grading purposes. Issues with technology use arise from time to time. If a technology issue does occur regarding a lab submission, email your professor and attach a copy of what you are trying to submit. This lets your faculty know you completed the lab on time and are just having problems with the online submission feature in Blackboard. Once the problem is resolved, submit your lab through the appropriate link. This process will document the problem and establish a timeline. Be sure to keep a backup of all work.

LATE WORK OR MISSED LAB POLICY

The summer course is set up based on a fast-paced timeline where we will cover approximately one chapter per day. Lab activity due dates are shown on the calendar/schedule or posted within Blackboard. Late lab activities are not accepted without prior approval of faculty. Faculty reserve the right to deduct points for late labs that are accepted past the original due date.

COPYRIGHT POLICY

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

SYLLABUS CHANGES

The faculty member reserves the option to make changes as necessary to this syllabus and the course content. If changes become necessary during this course, the faculty will notify students of such changes by email, course announcements and/or via a discussion board announcement. It is the student's responsibility to look for such communications about the course on a daily basis.

GEOLOGIC EXHIBITION ORGANIZATION (GEO)

GEO, is the student organization of all interested in geology (not just majors/minors). The GEO club meets almost every Wednesday @ 6:00PM during the regular semesters. GEO is a student chapter of the American Association of Petroleum Geologists ([AAPGⁱⁱⁱ](#)) and Sigma Gamma Epsilon, the national honor society of the earth sciences. If you would have an interest in geology and would like to join GEO contact your professor for more information.

YOU CAN MAJOR OR MINOR IN GEOLOGY @ ASU!

There is a great need for geologists in the workplace in the coming 5-10 years! If you are interested in seeing where a BS in Geology could take your career talk to your professor and see the [Geoscience requirements^{iv}](#). You can also minor in geology which requires 18 hours of geology courses. Good and rewarding [careers^v](#) exist for geologists, geophysicists, hydrogeologists, secondary science teachers, and petroleum engineers.

GENERAL POLICIES RELATED TO THIS COURSE

All students are required to follow the policies and procedures presented in these documents:

[Angelo State University Student Handbook](#)^{vi}

[Angelo State University Catalog](#)^{vii}

ACADEMIC INTEGRITY

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university's [Statement of Academic Integrity](#).^{viii}

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student's responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the [Student Disability Services website](#).^{ix} The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

INCOMPLETE GRADE POLICY

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#)^x for more information.

PLAGIARISM

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)^{xi} in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft. In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the [ASU Writing Center](#).^{xii}

STUDENT ABSENCE FOR OBSERVANCE OF RELIGIOUS HOLY DAYS

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for [Observance of Religious Holy Day](#)^{xiii} for more information.

TITLE IX AT ANGELO STATE UNIVERSITY

The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU's Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.^{xiv}

ⁱ <http://blackboard.angelo.edu/>

ⁱⁱ http://www.angelo.edu/distance_education/

ⁱⁱⁱ <http://www.aapg.org>

^{iv} https://www.angelo.edu/physics/geoscience_degree.php

^v http://www.angelo.edu/dept/physics/Geosciences/geoscience_careers.php

^{vi} <https://www.angelo.edu/student-handbook/>

^{vii} <https://www.angelo.edu/catalogs/>

^{viii} <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

^{ix} <https://www.angelo.edu/services/disability-services/>

^x <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

^{xi} <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

^{xii} https://www.angelo.edu/dept/writing_center/academic_honesty.php

^{xiii} <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>

^{xiv} <http://www.angelo.edu/title-ix>

SCHEDULE: All information is subject to change.

Day	Due Date	Topic for the Day	Pre-Lab Reading (linked in BB)	Pre-lab Reading Quiz	Lab Activity
Monday	July 6	Welcome Module	Websites and video	Baloney Detection Kit	Baloney Detection Kit
Tuesday	July 7	Earth Structure			
Wednesday	July 8	Continental Drift and Plate Tectonics			
Thursday	July 9	Minerals	Minerals Lab Materials	Minerals	Minerals
Friday	July 10				
Monday	July 13	Igneous Rocks	Ign Rocks Lab Materials	Igneous Rocks	Igneous Rocks
Tuesday	July 14	Sedimentary Rocks	Sed Rocks Lab Materials	Sedimentary Rocks	Sedimentary Rocks
Wednesday	July 15	Metamorphic Rocks	Meta Rocks Lab Materials	Metamorphic Rocks	Metamorphic Rocks
Thursday	July 16	Volcanoes			
Friday	July 17				
Monday	July 20	Earthquakes and Mountain Building			
Tuesday	July 21	Geologic Time	Age dating website and videos	Geologic History of a Region	Geologic History of a Region
Wednesday	July 22	Energy			
Thursday	July 23	Streams and Groundwater	Floods and Flooding Materials	Rivers and Flooding	Rivers and Flooding
Friday	July 24				
Monday	July 27	Oceans	Website	Investigating Sea Level	Investigating Sea Level
Tuesday	July 28	Heating the Atmosphere			
Wednesday	July 29	Weather Phenomena			
Thursday	July 30	Climate	Website	Using Climate Models	Using Climate Models
Friday	July 31				
Monday	August 3				
Tuesday	August 4	The Structure of the Universe and our Solar System	Earth Science textbook and video	Moon Phases	Moon Phases
Wednesday	August 5				