

# GEOL 1304

## HISTORICAL GEOLOGY LECTURE



**Instructor: Dr. Elizabeth C. Koeman-Shields**

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**Virtual Office Hours:** By appointment only

## Course Information

### Student Learning Outcomes

This course is designed to familiarize the student with the processes, principles, and theories involved in Historical Geology. The student will learn how to carefully defend their thinking when answering questions and completing assignments. Learning outcomes will be evaluated by homework, quizzes, and exams. At the end of this course, the student will be able to:

1. Describe the scientific method and apply it in a geological context.
2. Describe Earth's major systems and explain how they interact.
3. Explain the plate tectonic theory and explain its relationship to earth processes, features, and landforms.
4. Explain how the Geologic Time Scale was produced, including how stratigraphic and fossil correlation is used, and how numerical ages were added.
5. Identify common rocks and minerals and interpret how they form.
6. Identify common organisms/fossils throughout geologic time and described how they changed through evolution.

### Required Texts and Materials

Textbook: Earth System History, 4<sup>th</sup> Edition (e-book or paperback)

Note: You are not required to purchase the book through the ASU Bookstore.

### Communication

**Written communication via email:** All private communication will be done exclusively through your ASU email address. Check frequently for announcements and policy changes. In your emails, include the course name and section number in your subject line. I will respond to email and/or telephone messages within 24 hours during working hours Monday through Friday. Weekend messages may not be returned until Monday.

## Technology

You will be required to have a computer with internet access for this course. You may also be required to turn in assignments on Blackboard and/or Gradescope using a scanner or camera.

## Core Curriculum Student Learning Outcomes

The following list of core curriculum student learning outcomes will be met and measured during this course:

Student Learning Outcome	Assessment Method
1. Gather, analyze, evaluate, and synthesize information relevant to a question or issue.	Homework/In-class Assignment
2. Develop, interpret, and express ideas through effective visual communication.	Journal Entry
3. Manipulate and analyze numerical data and arrive at an informed conclusion	Homework/In-class Assignment
4. Manipulate and analyze observable facts and arrive at an informed conclusion	Quiz/Exam
5. Work effectively with others to support and accomplish a shared goal.	IDEA Forms

## Grading

### Evaluation and Grades

Course grades will be determined as indicated in the table below.

Assessment	Percent of Total Grade
Exams	30
Learning Module Assignments	40
Journal Assignments	30
Total	100%

### Grading System

Course grades will be dependent upon completing course requirements and meeting the student learning outcomes. The following grading scale is in use for this course:

- A = 90.00-100%
- B = 80.00-89.99%
- C = 70.00-79.99%
- D = 60.00-69.99%
- F = 0-59.99%

### Attendance and Assignment Policy

You are expected to complete each learning module. Missed assignments, quizzes, and exams cannot be made up. NOTE: You are NOT automatically dropped if you stop completing assignments. The last day to drop this course is August 2, 2021.

## Learning Module Assignments

Within each learning module, there will be quizzes that will check your understanding on certain topics, chapter reading quizzes, and different types of assignments. These are not listed in the syllabus schedule, but all are posted within the Learning Modules that are posted on Monday mornings and are therefore due the Sunday after they are posted.

## 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](#)<sup>1</sup>
- [Angelo State University Catalog](#)<sup>2</sup>

## 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](#).<sup>3</sup>

## 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](mailto:ADA@angelo.edu). For more information about the application process and requirements, visit the [Student Disability Services website](#).<sup>4</sup> 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](mailto: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](#)<sup>5</sup> for more information.

## **Plagiarism**

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)<sup>6</sup> 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. I encourage you to work together on homework assignments and to study together for exams. However, anything you turn in must be in your own words.

Papers are subject to be evaluated for originality. Resources to help you understand this policy better are available at the [ASU Writing Center](#).<sup>7</sup>

## **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](#)<sup>8</sup> 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](mailto:michelle.boone@angelo.edu)

**You may also file a report online 24/7 at [www.angelo.edu/incident-form](http://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](http://www.angelo.edu/title-ix).

## Course Schedule (subject to change)

Week	Topics	Assigned Reading	Exam Dates
#1: 7/12 - 7/16	Syllabus + What is Historical Geology? Exploring Earth Minerals and Rocks The Diversity of Life Sedimentary Rocks & Environments	Chapter 1 Chapter 2 Chapter 3 Chapter 5	
#2: 7/19 - 7/23	Dating of the Rock Record Evolution Plate Tectonics Mountain Building	Chapter 6 Chapter 7 Chapter 8 Chapter 9	
#3: 7/26 - 7/30	The Hadean and Archean The Proterozoic The Early Paleozoic The Middle Paleozoic	Chapter 11 Chapter 12 Chapter 13 Chapter 14	<b>Exam 1</b> (Due 7/30)
#4: 8/2 - 8/6	The Late Paleozoic The Early Mesozoic The Cretaceous The Paleogene	Chapter 15 Chapter 16 Chapter 17 Chapter 18	
#5: 8/9 - 8/13	The Late Cenozoic The Holocene	Chapter 19 Chapter 20	<b>Exam 2</b> (Due 8/13)

<sup>1</sup> <https://www.angelo.edu/student-handbook/>

<sup>2</sup> <https://www.angelo.edu/catalogs/>

<sup>3</sup> <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

<sup>4</sup> <https://www.angelo.edu/services/disability-services/>

<sup>5</sup> <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

<sup>6</sup> <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

<sup>7</sup> [https://www.angelo.edu/dept/writing\\_center/academic\\_honesty.php](https://www.angelo.edu/dept/writing_center/academic_honesty.php)

<sup>8</sup> <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>