

GEOL 1304 SUMMER 2022

HISTORICAL GEOLOGY



Instructor: Dr. Elizabeth C. Koeman-Shields

Email: ekoemanshields@angelo.edu

Phone: 325-486-6767 (office)

Office: VIN 124

Virtual Office Hours: By appointment only (through Blackboard Collaborate).

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 with their writing. Learning outcomes will be evaluated by homework, journal entries, 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. Identify common rocks and minerals and interpret how they form.
3. Explain how the Geologic Time Scale was made, how stratigraphic/fossil correlation is used and how numerical ages were added.
4. Describe the theory of plate tectonics including identifying plate boundaries, describing plate motions at boundaries, and identifying landforms/features associated with each boundary. Describe the early theories that laid the foundation for plate tectonics (continental drift, sea floor spreading).
5. Describe how the several types of organisms lived and changed through time.

Required Texts and Materials

- Textbook: Earth System History, Fourth Edition, by Steven M. Stanley.
- Note: A student of this institution is not under any obligation to purchase a textbook from the university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Course Delivery

This is an online course that will be delivered via [Blackboard](#).¹ If you choose, you can complete this course without visiting the ASU campus. Each week, several learning modules will be posted on Monday morning and due on Sunday at end of day (11:59 pm Central Time Zone). This gives you a full week to complete each week's material. The learning modules contain lecture videos, quizzes, and other assignments for you to complete.

If you do go one campus, please refer to this [Health and Safety web page](#)² for updated information about campus guidelines as they relate to the COVID-19 pandemic.

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 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 |
| 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 |
| 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 |
|-----------------------------|------------------------|
| Learning Module Assignments | 40 |
| Journals | 30 |
| Midterm Exams (2) | 15 |
| Final Exam (cumulative) | 15 |
| Total | 100% |

- **Learning Module Assignments:** These are assigned each week and are in the form of quizzes or worksheets. They will be available Monday morning and due Sunday by end of day (11:59 pm). Quizzes will be administered through Blackboard and will not be timed (they are open book/notes).
- **Journals:** An individual journal will be assigned in each learning module. These are conceptual/critical thinking question and your response is only visible to me. See Blackboard for grading rubric.
- **Midterm Exams:** There will be 2 midterms throughout the course (see schedule for dates). They will be administered through Blackboard, are open book/notes, and timed.
- **Final Exam:** The final exam is cumulative, administered through Blackboard, timed, and will be available Monday through Thursday during the week of finals.

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 keep track of due dates and 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 1, 2022.

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](#)³
- [Angelo State University Catalog](#)⁴

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](#).⁵

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](#).⁶ 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](#)⁷ for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)⁸ 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](#).⁹

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](#)¹⁰ for more information.

Title IX at Angelo State University

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: [Incident Reporting Form](#)¹¹

Face to Face: Mayer Administration Building, Room 210

Phone: 325-942-2022

Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State's policy please visit the [Title IX website](#).¹²

Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification on potentially short notice based on developing circumstances.

Course Schedule (subject to change)

| Week | Topics | Assigned Reading | Exam Dates |
|-----------------|--|--|---------------------------|
| #1: 7/11 - 7/15 | 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: 7/18 - 7/22 | Dating of the Rock Record Evolution Plate Tectonics Mountain Building | Chapter 6 Chapter 7 Chapter 8 Chapter 9 | |
| #3: 7/25 - 7/29 | The Hadean and Archean The Proterozoic The Early Paleozoic The Middle Paleozoic | Chapter 11 Chapter 12 Chapter 13 Chapter 14 | Exam #1 (Due 7/28) |
| #4: 8/1 - 8/5 | The Late Paleozoic The Early Mesozoic The Cretaceous The Paleogene | Chapter 15 Chapter 16 Chapter 17 Chapter 18 | |
| #5: 8/8 – 8/12 | The Late Cenozoic The Holocene | Chapter 19 Chapter 20 | Exam #2 (Due 8/12) |

¹ <https://blackboard.angelo.edu/>

² <https://www.angelo.edu/covid-19/returning-to-campus/health-and-safety.php>

³ <https://www.angelo.edu/student-handbook/>

⁴ <https://www.angelo.edu/catalogs/>

⁵ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁶ <https://www.angelo.edu/services/disability-services/>

⁷ <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>

⁸ <https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php>

⁹ https://www.angelo.edu/dept/writing_center/academic_honesty.php

¹⁰ <https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>

¹¹ <https://www.angelo.edu/incident-form>

¹² <https://www.angelo.edu/title-ix>