

**Historical Geology Laboratory 1304: Earth & Space Science (Dual Credit)  
Spring Semester 2022**

**January 2022**

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Room: 1016      Conference: Blue Day 4<sup>th</sup> Period & Gold Day 7<sup>th</sup> Period

**Course Description:**

Laboratory activities designed to accompany Geology 1303. The laboratory includes experiments over topics such as Earth materials, structure, landforms, mineral resources, and plate tectonics.

**Course Approach and Expectations:**

Students are expected to attend all classes, be on time, bring all necessary materials (laptop, paper, pens/pencils, notebook, etc.), and be ready to work. We will have fun, but we will work hard so your participation and focus will be necessary for your success!

Labs will be part of your daily work thus counting toward 60% of your grade. Participation may include individual, or group work and all safety procedures will be followed at all times. You will learn about rocks and minerals that make up Earth and the sometimes subtle and often destructive processes that shape it. You will learn and test fundamental concepts about meteorite impacts, volcanoes, earthquakes, river flooding, oil and gas resources, groundwater, and plate tectonics. Many examples will be from West Texas and western North America. Problem-solving techniques that you will learn and practice:

- Use multiple working hypotheses
- Be skeptical: look for ways to test hypotheses
- Make sketches: they help in visualizing the world in three dimensions
- Quantify events and processes when possible
- Apply the Principle of Uniformitarianism
- Study and work together
- Get as much practice or experience as you can
- Carefully defend your thinking when answering questions.
- Learning outcomes will be evaluated by exams and class assignments

**Grading:**

90 – 100 = A

80 – 89 = B

70 – 79 = C

69 and below = F

Daily Work – 60%

Assessments – 40%

**\*Final\*** - All students are required to take the final during the **week of May 9th** which will average in toward your final grade. **Exact date to be announced.**

Late work will be accepted within a reasonable amount of time however, you will lose 5 points each day it is late, and you forfeit your ability to make corrections or redo the assignment.

**Attendance Policy:**

Students are required to attend all classes. We will follow FHS attendance policy and procedure. It is your responsibility to ask a classmate about what you missed and make time to come in if necessary to make up assignments. All assignments will be posted in Schoology!

**Field Trips:**

I am planning two field trips, one each semester. More info to come! Class dues of \$10 will be required before students can attend the trip. It is not mandatory to attend the trip, but class dues must be paid in order to attend.

Possibly Dinosaur Valley or Carlsbad Caverns – Investigate the local geology and discuss the geologic history of the area.

**Course Content:**

<b>Unit 7: Earthquakes, Volcanoes, and Mountains (12 blocks) 1/4-2/4 Target Test Date: 2/4</b>	<b>Unit: 8 Geologic Time (9 blocks) 2/7-3/4 Target Test Date: 3/4</b>
Project Volcanoes Earthquake Shake Table Lab	Block Diagrams Determining Absolute and Relative Ages of Rock Layers
<b>Unit: 9 Atmosphere &amp; Weather (7 blocks) 3/8-3/31 Target Test Date: 3/31</b>	<b>Unit: 10 Global Climate (9 blocks) 4/1-27 Target Test Date: 4/27</b>
Satellite Meteorology Cloud Drill	Albedo Basics Determining El Nino & La Nina Years Ice Cores: Heavy water vs. light water
<b>Unit: 11 The Universe and Solar System (7 blocks) 4/29-5/17 Target Test Date: 5/17</b>	
Evidence for the Expansion of the Universe	

**Student Disability Services:**

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.

The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student's responsibility to initiate such a request by contacting:

Ms. Dallas A. Swafford

Director of Student Disability Services

325-942-2047

dallas.swafford@angelo.edu

Houston Harte University Center

**Title IX Statement:**

Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASU's Title IX Coordinator:

Michelle Nicole Boone, J.D.

Director of Title IX Compliance

Michelle.boone@angelo.edu

325-486-6357

Mayer Administration Building 204

**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 for more information.

**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 for more information.

**Student Conduct Policies:**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.

Plagiarism

Plagiarism is a serious topic covered in ASU's Academic Integrity policy 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 via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

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.

**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

Angelo State University Catalog