

# GEOL 1111 (Lab for GEOL 1211): Principles of Earth Science Lab Syllabus

Instructor/Lab Coordinator: Dr. Annette Veilleux, [amveilleux@utep.edu](mailto:amveilleux@utep.edu), Geology Rm 101-C  
Teaching Assistant: To be Assigned

## Online Class

### **Course Schedule: Subject to change !**

MODULE	DUE	TOPIC	QUIZ
Week One Module Aug 24 – Aug 28	9/6/20	Introduction to Course: Learning Blackboard and Earth's Systems	NO QUIZ
Week Two Module Aug 31 – Sept 4	9/6/20	Google Earth – Virtual Fieldtrip Assignment due 9/6/20	Assignment
Week Three Module Sept 7 – Sept 11 Labor Day Sept 7 No class Census Day Sept 9	9/13/20	Minerals and Igneous Rocks	Quiz 1
Week Four Module Sept 14 – Sept 18	9/20/20	Sedimentary and Metamorphic Rocks	Quiz 2
Week Five Module Sept 21 – Sept 25	9/27/20	Volcanoes	Quiz 3
Week Six Module Sept 28 – Oct 2	10/4/20	Earthquakes	Quiz 4
Week Seven Module Oct 5 – Oct 9	10/11/20	Plate Tectonics I	Quiz 5
Week Eight Module Oct 12 – Oct 16	10/18/20	Plate Tectonics II	Quiz 6
Week Nine Module Oct 19 – Oct 23	10/25/20	Surface Water	Quiz 7
Week Ten Module Oct 26 – Oct 30 Oct 30 Withdrawal deadline	11/1/20	Groundwater	Quiz 8
Week Eleven Module Nov 2 – Nov 6	11/8/20	Deserts and Wind	Quiz 9
Week Twelve Module Nov 9 – Nov 13	11/15/20	Oceans	Quiz 10
Week Thirteen Module Nov 16 – Nov 20	11/22/20	Atmosphere	Quiz 11
Week Fourteen Module Nov 23 – Nov 27 Thanksgiving Week	11/29/20	Weather	NO QUIZ
Week Fifteen Module Nov 30 – Dec 4 Dec 4 – Dead Day	12/6/20	Climate Change	Quiz 12
Final Exam Week Dec 7 – Dec 11 No Final Exam for this class			

Labs available weekly Monday through Sunday, read the material.  
Check email and announcements often for important information.  
Submit assignments by Sunday 8:00 am.  
Submit quizzes by Sunday 8:00 am.  
Submit reflective summaries by Sunday 8:00 am.  
No makeups, labs are due in one week by Sunday at 8:00 am, no exceptions.

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**Required Text:** There is no required text for this class, all labs are developed by faculty or instructors; computer access is required for this course, see the netiquette section for details on computing requirements.

Computing resources available in the UTEP Library:  
<https://www.utep.edu/library/about/library-hours.html>

**GRADING:** Grades will be based on the following criteria and will be assigned using this scale:

Assignments	40%
Quizzes	50%
Weekly Reflections	10%
Grading Scale:	A=90-100%,

B=80-89%,  
C=70-79%,  
D=60-69%,  
F=<60%

**ASSIGNMENTS** Late work will not be accepted in the online format. You will have one week from the assigned date to complete your assignments, after that you must seek approval to turn it in late. Every effort will be made to align the lab course material with the associated lecture course, however at times will be covered out of sync with the lecture course.

## **LEARN AND USE BLACKBOARD**

**All labs are on blackboard and a students should become familiar with using this system. Refer to the following links for help with Blackboard:**

<https://www.utep.edu/technologysupport/>

<https://www.utep.edu/extendeduniversity/cid/index.html>

**CELL PHONE USE:** Turn off your phone ringer while in class, when in class.

## **STUDENT CONDUCT AND PLAGIARISM**

University guidelines for acceptable student conduct are very specific and will be strictly followed. Blind copying of intellectual material (text) from resources such as books, journals, and the internet is plagiarism and is illegal. Instead, you should write things in your own words with a proper reference to the source. If any exercises or labs require you to look up an answer in something else than the class textbook, we will expect you to reference the source and write it in your own words. Plagiarized work will receive a "0" for the whole assignment and cannot be redone or made up.

## **DROP POLICY**

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The course drop deadline is **Oct 30, 2020**. Non-attendance will **not** result in being dropped, but you will get zeros for the remaining work and likely fail the class. It is your responsibility to initiate withdrawal from the class.

## **STUDENTS WITH DISABILITIES**

If you think you may have a disability or if you are experiencing learning difficulties, please contact the Center for Accommodation and Support Services (CASS) at: <http://sa.utep.edu/cass/>

## **MILITARY STATEMENT**

If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to let me know well in advance.

## **POLICY ON MAKEUP LABS**

Online assignments are due in class one week after the lab normally this is assigned on a Monday and turned in by Monday midnight one week later. No late work will be accepted unless otherwise arranged ahead of time.

## **CONTACT INFORMATION**

When emailing the instructor or TA you must include the section you are enrolled in as well as the time/date of your class along with your name.

**INSTRUCTOR EMAIL** [amveilleux@utep.edu](mailto:amveilleux@utep.edu)

**OFFICE HOURS BY APPOINTMENT ONLY** (915) 747- 5501

## **TEACHING ASSISTANT EMAIL**

The teaching assistant is responsible for the class instruction, for questions contact:



## **TEACHING ASSISTANT OFFICE HOURS**

Virtual office hours – Blackboard Collaborate – every Friday 1-3pm, online

## **Learning Objectives**

1. Students will be familiar with Earth's Systems by creating a powerpoint of an important cycle related to one of Earth's spheres.
2. Students will be able to identify common Earth materials and interpret their composition, origin, uses and relationship. This will be measured through a lab assignment on application of Earth materials and minerals.

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3. Students will be able to describe the processes operating at and beneath the Earth's surface, how those processes create the Earth's landscape, and how humans affect and are affected by the processes involving volcanism.
4. Students will understand how and where different kinds of sedimentary and metamorphic rocks form and how this is important to interpret the history of the Earth.
5. Students will interpret data from regional Texas earthquakes to understand the occurrence of earthquakes and how to analyze different types of earthquake information.
6. Students will synthesize information from divergent plate boundary types to unravel the nature and characteristics of divergent boundaries.
7. Students will synthesize information from transform and convergent plate boundary types to unravel the nature and characteristics of transform and convergent boundaries.
8. Students will learn about surface water by analyzing stream data, occurrences of floods in local areas and arroyos and identify associated features that will impact the landscape and how surface water behaves as it flows across the landscape.
9. Students will calculate their water footprint and analyze water data from well information to interpret conditions related to groundwater supply and usage.
10. Students will analyze images of White Sands dunes to infer processes at the surface and related to wind conditions.
11. Students will learn the factors that drive ocean circulation and understand how nutrient supply is affected by ocean currents.
12. Students will sketch conditions associated with the atmospheric circulation based on wind conditions at the surface. Students will understand the Coriolis affect and discuss the global energy budget based on observations at different latitudes. Students will analyze significance of gases in the atmosphere in context of circulation patterns and assess fluxes in carbon dioxide and greenhouse gases.
13. Students will learn about weather patterns and cloud data with the UCAR cloud viewer.
14. Students will learn how ancient civilizations adapted climate changes by reading and inferring factors that influenced the conditions found in those areas.  
Students will utilize data from the El Nino Southern Oscillation (ENSO) to comprehend the effects on conditions found in the ocean like sea surface ocean temperature.  
Students will learn the differences between mitigating and adapting to climate change conditions.