GEOL 1103: Introduction to Physical Geology — Lab Syllabus

Course Schedule: Subject to change!

<table>
<thead>
<tr>
<th>WEEK</th>
<th>MODULE</th>
<th>DUE</th>
<th>TOPIC</th>
<th>QUIZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 15 – Jan 19</td>
<td></td>
<td>Course Introduction (Dr. Martin Luther King holiday Jan 15)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Jan 22 – Jan 26</td>
<td>In lab</td>
<td>Minerals</td>
<td>Quiz 1</td>
</tr>
<tr>
<td>3</td>
<td>Jan 29 – Feb 2</td>
<td>In lab</td>
<td>Rocks</td>
<td>Quiz 2</td>
</tr>
<tr>
<td></td>
<td>(Jan 31 census)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Feb 5 – Feb 9</td>
<td>In lab</td>
<td>Volcanic Hazards</td>
<td>Quiz 3</td>
</tr>
<tr>
<td>5</td>
<td>Feb 12 – Feb 16</td>
<td>In lab</td>
<td>Crustal Deformation</td>
<td>Quiz 4</td>
</tr>
<tr>
<td>6</td>
<td>Feb 19 – Feb 23</td>
<td>In lab</td>
<td>Earth’s Interior</td>
<td>Quiz 5</td>
</tr>
<tr>
<td>7</td>
<td>Feb 26 – Mar 1</td>
<td>In lab</td>
<td>Plate Tectonics I</td>
<td>Quiz 6</td>
</tr>
<tr>
<td>8</td>
<td>Mar 4 – Mar 8</td>
<td>In lab</td>
<td>Earthquakes and Hazards</td>
<td>Quiz 7</td>
</tr>
<tr>
<td>9</td>
<td>Mar 18 – Mar 22</td>
<td>In lab</td>
<td>Plate Tectonics II</td>
<td>Quiz 8</td>
</tr>
<tr>
<td>10</td>
<td>Mar 25 – Mar 29</td>
<td>In lab</td>
<td>Desert Environments and Wind</td>
<td>Quiz 9</td>
</tr>
<tr>
<td></td>
<td>(Mar 28 drop deadline)</td>
<td></td>
<td>(Cesar Chavez holiday Mar 29)</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Apr 1 – Apr 5</td>
<td>In lab</td>
<td>Water on the Surface and Underground</td>
<td>Quiz 10</td>
</tr>
<tr>
<td>12</td>
<td>Apr 8 – Apr 12</td>
<td>In lab</td>
<td>Measuring Water Resources</td>
<td>Quiz 11</td>
</tr>
<tr>
<td>13</td>
<td>Apr 15 – Apr 19</td>
<td>In lab</td>
<td>Climate Change Lab as homework</td>
<td>Quiz 12</td>
</tr>
<tr>
<td>14</td>
<td>Apr 22 – Apr 26</td>
<td>In lab</td>
<td>Energy Lab</td>
<td>Quiz 13</td>
</tr>
<tr>
<td>15</td>
<td>Apr 29 – May 2</td>
<td>No lab</td>
<td></td>
<td>No quiz</td>
</tr>
</tbody>
</table>

Final Exam Week:  May 8–12
NO FINAL EXAM FOR LAB CLASSES

- GEOL 1103 is a stand-alone, one credit lab class, separate from GEOL 1311 (lecture).
- There is no required text for this class. All labs are developed by faculty or instructors and contained in a provided lab manual.
- Please check email and Blackboard announcements often for important information.
- Lab assignments available weekly on day of the lab (all assignments also released weekly on Blackboard). Please read associated material.
- ASSIGNMENTS WILL BE TURNED IN VIA THE LAB MANUAL AT THE END OF EVERY SESSION, SO YOU MUST BE PRESENT!
- Your TA will inform you how weekly quizzes will be administered.
- **No makeups without justification. If the TA allows you to make up an assignment, it will be due within 3 days and you are responsible for printing the lab from Blackboard.**

**CONTACT INFORMATION**

Please copy both the Instructor and TA on emails. Include your name, the CRN section you are enrolled in as well as the time/date of your class.

**INSTRUCTOR: Dr. David Young:** djyoung2@utep.edu

Office hours by email appointment only or drop by my office (GEOL 317).
GEOL 1103: Introduction to Physical Geology — Lab Syllabus

TEACHING ASSISTANT:
The teaching assistant is responsible for the class instruction; for questions contact:
Email:
Office hours: To be advised by your Teaching Assistant.

GRADING: Grades will be based on the following criteria and will be applied using this scale:
- Assignments: 60%
- Quizzes: 40%

Grading Scale:
- A: 90-100%
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: <60%

ASSIGNMENTS
Every assignment is due in lab on the day of your lab: you will complete the exercise in class and turn in the lab manual at the end of the lab period for grading. Late work will not be accepted without valid reason. For those assignments that are not due within the lab period, you will have one week from the assigned date to complete it. Every effort is made to align the lab course material with the associated lecture course, but at times the material will be covered out of sync.

LEARN AND USE BLACKBOARD
Computer access is suggested but not mandatory for this course. Computing resources available in the UTEP Library: https://www.utep.edu/library/about/library-hours.html
Class content is also on the Blackboard learning management system, and students should become familiar with using this system. Ensure your UTEP e-mail account is working and you read it, and that you have access to the Web and a stable web browser. Google Chrome is the best browser for Blackboard; other browsers may cause complications. 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: Please turn off your phone ringer when in class.

STUDENT CONDUCT: ACADEMIC DISHONESTY & PLAGIARISM
University guidelines for acceptable student conduct are very specific and will be strictly followed. The Department of Earth, Environmental and Resource Sciences has gone to great lengths to make learning the material easier than engaging in scholastic dishonesty, which is defined in the UTEP Student Handbook Chapter 1: Student Conduct and Discipline and also at Student Affairs. Proven violations of these detailed regulations may result in any of the consequences outlined in the Student Handbook.

Using another person’s ideas, words, drawings, etc. without giving proper credit (through a citation) is considered plagiarism. This includes anything from a book, magazine, technical report or journal, or website. It ALSO includes anything copied from another student’s paper or from a paper you wrote for another class where you received credit for it. Plagiarism is
The University of Texas at El Paso
Department of Earth, Environmental and Resource Sciences

GEOL 1103: Introduction to Physical Geology — Lab Syllabus

considered Academic Dishonesty and you will be reported to the Dean of Students if suspected of plagiarism (if you plagiarize as a professional it can cost you your job!)

Furthermore, blind copying of intellectual material (text) from resources such as books, journals, and the internet is plagiarism and is illegal. Instead, you should write answers as you understand the topic in your own words (with proper references to source if needed). 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 zero for the whole assignment and cannot be redone or made up.

Refer to the following site for more information: Student Integrity

DROP POLICY
The course drop deadline is Mar 28, 2024. Non-attendance will not result in being dropped, but you will get zeros for the remaining work and likely fail the class (in fact, this how many people fail). 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 student with the potential of being called to military service and/or training during the semester, you are encouraged to let your Teaching Assistant know well in advance.

POLICY ON MAKEUP LABS
Lab assignments are due during the lab period. No late work will be accepted unless otherwise arranged ahead of time.

LEARNING OBJECTIVES

1. Students will be familiar with Earth's Systems and spheres of study.
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.
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 with respect to volcanism and formation of igneous rocks.
4. 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.
5. 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.
6. Students will analyze and interpret the structures commonly found in geologic settings that inform geologists about Earth's history, processes and type of movement.
7. Students will infer relationships among abundances of different rock types to analyze the density variations found within the Earth and incorporate that into an understanding of the Earth's internal layers.
8. Students will synthesize information from divergent plate boundary types to unravel the nature and characteristics of divergent boundaries.
9. Students will interpret data from regional Texas earthquakes to understand the occurrence of earthquakes and how to analyze different types of earthquake information.
GEOL 1103: Introduction to Physical Geology — Lab Syllabus

10. Students will synthesize information from transform and convergent plate boundary types to unravel the nature and characteristics of transform and convergent boundaries.

11. 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.

12. Students will calculate their water footprint and analyze water data from well information to interpret conditions related to groundwater supply and usage.

13. Students will analyze images of White Sands dunes to infer processes at the surface and related to wind conditions.

14. Students will learn about climate change from tree ring growth and plot and interpret carbon dioxide data.

ILLNESS PRECAUTIONS

Please do not attend class if you have symptoms of a communicable illness. If you are feeling unwell, please let the Instructor and your TA know as soon as possible, so that we can work on appropriate accommodations. Everyone should be aware now of risk so please take precautions to protect your fellow citizens. If you require information about COVID services, please visit epstrong.org