GEOL 1103 Physical Geology Lab (1 credit)

Fall 2020
Lab Section: 06Z R 1:00-2:50pm
ROOM: VIN 139

Instructor: Dr. Heather L. Lehto
Email: Heather.Lehto@angelo.edu
Office hours: VIN 127, Virtual Office Hours, TBD

REQUIRED MATERIALS:
- A face mask or face covering is required in lab at all times
- A plastic face shield is required in lab at all times (this will be provided to you on the first day of lab, you will keep this, take it home, sanitize it, and bring it back to lab for each meeting)
- Plastic gloves are required in lab at all times (these will be provided for you as you come into lab each day)
- LAB MANUAL: GEOL 1103, Physical Geology Laboratory Manual, Heather L. Lehto
- ASU email account that you check regularly
- Blackboard® course site

STUDENT LEARNING OBJECTIVES
Learning outcomes will be evaluated on exams, lab projects, and an IDEA course evaluation
- Identify and interpret the formation of rocks and minerals.
- Analyze and interpret the orientation of geologic layers beneath the surface of the Earth through the creation of:
  o Block diagrams
  o Geologic cross sections

ATTENDANCE POLICY
Please refer to this Health and Safety web page for updated information about campus guidelines as they relate to the COVID-19 pandemic.

How will class attendance work?
- You are required to have completed the health screening prior to attending lab. If you are flagged as potentially having COVID you will not be allowed to attend lab in-person.
- You will be required to wear face masks, face shields, and disposable gloves in lab at all times.
- NOTE: You are NOT automatically dropped if you stop attending class. So, if you want to drop the class you must do it through Ramport.

What if I’m sick?
- If you are sick (with anything, not just COVID), you are required to stay home. Rest, relax, drink plenty of fluids, and binge watch your favorite show (if you feel up to it).
- I WILL require a note from a doctor stating that you were ill when you are able to return to lab. You can get this from your regular doctor or from the ASU Health Clinic®.
- Please email me to let me know if you aren’t feeling well so that we can make arrangements for labs or lab practicals that you may miss in your absence.
What if I have a pre-existing condition or simply don’t feel safe attending in-person classes?

- You may elect to complete this lab entirely online.
- You do NOT have to give me any reason for wanting to attend online. Simply, tell me you plan to attend online only.
- You will be required to complete an alternative set of labs, pre-lab reading quizzes, and lab practicals from the safety of your home.
- There will not be ANY penalties for choosing to attend entirely online. I respect your choice in this matter and will do my utmost to make sure you have as close to the same experience as any other classmate as I can.
- You may also elect at ANY time to change to an online only format. No questions asked. Simply notify me by email so that I know why you disappeared from lab and can put you into a different group to complete the online labs (and so I don’t worry).

LIFE HAPPENS CLAUSE
Life happens to all of us. Despite our best efforts, some days nothing seems to go right. Your car breaks down on the way to school, you run out of the house without something and have to go back despite the fact that you were already running late, your boss calls you into work, or your child is sick and you have to go pick them up from daycare/school. Or, you get so overwhelmed that everything seems too much to deal with.

If this happens to you, please email me. We will figure out what to do to keep you on track in the course. Whether that means extra tutoring sessions, deadline extensions, or something else. Please don’t suffer in silence. I want to help out, you just need to let me know what is going on.

CELL PHONES AND OTHER ELECTRONIC DEVICES
You may use a laptop or tablet to take notes during class. Please do not disturb others with their use. The use of any electronic device not authorized by the instructor during a test may result in the forfeiture of your grade for that test. All electronic devices should be turned off and stored out of sight during tests.

GRADING

<table>
<thead>
<tr>
<th>Number of Items</th>
<th>Name of item</th>
<th>Percent of grade per item</th>
<th>Number of Item Dropped</th>
<th>Total percent of grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Lab Practicals</td>
<td>5% each</td>
<td>None</td>
<td>10%</td>
</tr>
<tr>
<td>8</td>
<td>Graded Lab Activities</td>
<td>10% each</td>
<td>None</td>
<td>80%</td>
</tr>
<tr>
<td>6</td>
<td>Pre-lab Reading Quiz</td>
<td>2% each</td>
<td>1 lowest</td>
<td>10%</td>
</tr>
</tbody>
</table>

Make-up lab practicals will be given ONLY under extenuating circumstances. Prior email notification is needed for a make-up lab practical. There will be NO makeup pre-lab quizzes given, that is what the 1 dropped is for. Labs will be made up online and will be offered only after you notify your professor.

GRADING SYSTEM

<table>
<thead>
<tr>
<th>Percentage range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-90%</td>
<td>A</td>
</tr>
<tr>
<td>89-90%</td>
<td>B</td>
</tr>
<tr>
<td>79-70%</td>
<td>C</td>
</tr>
<tr>
<td>69-60%</td>
<td>D</td>
</tr>
<tr>
<td>59-0%</td>
<td>F</td>
</tr>
</tbody>
</table>
PRE-LAB QUIZZES
Pre-lab Quizzes will be completed in Blackboard after you have read the corresponding pages in the lab manual and read/watched any additional materials in the corresponding week’s folder in Blackboard.

FIELD TRIPS
There will be minimal opportunities for field trips this semester due to COVID. However, we will be offering an optional field trip to the state park that will be limited to a handful of students. Students will be required to abide by the same set of policies for safety as they are on campus and may be required to use additional safety measures while on the trip. Students will apply for this trip. Students who do not go on the trip will be offered an optional virtual field trip to the state park to complete at home/dorm.

Optional field trip to San Angelo State Park during lab time. One or two afternoons, tentatively, during the week of October 12-16. We will meet at San Angelo State Park to review and practice rock and mineral identification skills on Permian and younger rocks. Leaders: Joe Satterfield.

CLASS COMMUNICATION AND YOUR ASU EMAIL
Since class announcements will be routinely distributed via Blackboard which is connected to your ASU email, you will need to regularly check your email account and our course Blackboard site (daily). All course correspondence will be through your ASU email account and Blackboard. Please see the email policy in Bb for more details. ASU provides Internet and email services to you at any of the computer labs on campus. Call 942-2911 to set this up if necessary.

COUNSELLING SERVICES
Our mental health is just as important as our physical health, particularly now that we are being socially distant. Humans are social creatures who need contact with other people to stay mentally healthy. During this time, it is more important than ever to seek help if you need it. You can always call or email me if you need to talk about something, but I also strongly encourage you to reach out to the ASU Counseling Services, who are available for help anytime you need it. You can find them in the University Health Clinic building or by calling 325-942-2371 Monday through Friday from 9am-3pm. Need help outside those hours? For emergencies call 911 or the ASU Crisis Helpline at 325-486-6345. You can also call the ASU Crisis Helpline for non-emergency issues as well.

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

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.
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. 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 for more
information.

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. Resources to help you understand this policy better
are available at the ASU Writing Center.

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.

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

You may also file a report online 24/7 at 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.

**REQUIRED USE OF MASKS/FACIAL COVERINGS BY STUDENTS**
As a member of the Texas Tech University System, Angelo State University has adopted the mandatory Facial Covering Policy to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

**MODIFICATIONS TO THE SYLLABUS**
This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

The faculty member reserves the option to make changes as necessary to this syllabus and the course content. If changes become necessary during this course, the faculty will notify students of such changes by email, course announcements and/or via a discussion board announcement. It is the student’s responsibility to look for such communications about the course on a daily basis.

**GEOLOGIC EXHIBITION ORGANIZATION (GEO)**
GEO, the student organization of all interested in geology (not just majors/minors), meets almost every Wednesday @ 6:00PM. GEO is a student chapter of the American Association of Petroleum Geologists.
Geologists\textsuperscript{xvi}. Sigma Gamma Epsilon\textsuperscript{xvii}, the national honor society of the earth sciences is related to GEO.

MAJOR/MINOR IN GEOSCIENCE
ASU offers both a BS in Geosciences and a Geoscience Minor\textsuperscript{xviii} which requires 18 hours of geology courses. Good and rewarding careers\textsuperscript{xix} exist for geologists, geophysicists, hydrogeologists, secondary science teachers, and petroleum engineers, etc.

FINAL NOTE:
It is my goal to make this class both interesting and informative for you. With a reasonable amount of effort, it should be possible for everyone to meet the course objectives and earn a passing grade. With additional effort, aptitude, and investment of time, students may earn even higher course grades. If at any time you run into difficulties with the material, or need assistance or clarification, please do not hesitate to ask for help. I am here for you, and I will be glad to entertain any reasonable requests.

\begin{itemize}
  \item \url{http://blackboard.angelo.edu}
  \item \url{https://www.angelo.edu/content/profiles/2519-health-clinic/Templates/profiles-office-directory}
  \item \url{https://www.angelo.edu/services/counseling/}
  \item \url{https://www.angelo.edu/map/?Counseling%20Services}
  \item \url{https://www.angelo.edu/services/counseling/crisishelpline.php}
  \item \url{https://www.angelo.edu/student-handbook/}
  \item \url{https://www.angelo.edu/catalogs/}
  \item \url{https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php}
  \item \url{https://www.angelo.edu/services/disability-services/}
  \item \url{https://www.angelo.edu/content/files/14197-op-1011-grading-procedures}
  \item \url{https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php}
  \item \url{https://www.angelo.edu/dept/writing_center/academic_honesty.php}
  \item \url{https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of}
  \item \url{https://www.angelo.edu/services/title-ix/}
  \item \url{http://www.texastech.edu/downloads/ttus-policy-face-coverings.pdf}
  \item \url{www.aapg.org}
  \item \url{http://www.sigmagammaepsilon.com/}
  \item \url{https://www.angelo.edu/dept/physics/earth_science.php}
  \item \url{https://www.angelo.edu/dept/physics/Geosciences/geoscience_careers.php}
\end{itemize}
<table>
<thead>
<tr>
<th>Week #</th>
<th>Date of Lab</th>
<th>Pre-lab Quiz Due</th>
<th>Pre-lab Reading</th>
<th>Lab Exercise</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>August 20</td>
<td>None</td>
<td>pg. 1-7</td>
<td>1: Topographic maps and aerial photos</td>
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<tr>
<td>2</td>
<td>August 27</td>
<td>Aug. 26 @11:59pm</td>
<td>pg. 18-30</td>
<td>2: Rock-forming minerals</td>
</tr>
<tr>
<td>3</td>
<td>September 3</td>
<td>Sept. 2 @11:59pm</td>
<td>pg. 35-37</td>
<td>3: Igneous Rocks</td>
</tr>
<tr>
<td>4</td>
<td>No classes Sept. 7 September 10</td>
<td></td>
<td></td>
<td>No labs this week!!!</td>
</tr>
<tr>
<td>5</td>
<td>September 17</td>
<td>Sept. 16 @11:59pm</td>
<td>pg. 42-48</td>
<td>4: Sedimentary Rocks</td>
</tr>
<tr>
<td>6</td>
<td>September 24</td>
<td>Sept. 23 @11:59pm</td>
<td>pg. 54-57</td>
<td>5: Metamorphic Rocks</td>
</tr>
<tr>
<td>7</td>
<td>October 1</td>
<td></td>
<td></td>
<td>Review for Lab Practical 1</td>
</tr>
<tr>
<td>8</td>
<td>October 8</td>
<td></td>
<td></td>
<td>Lab Practical 1: Minerals and Rocks (Labs 2-5)</td>
</tr>
</tbody>
</table>
| 9    | October 15       |                  | pg. 62-63       | Optional (Extra Credit) - San Angelo State Park Field Trip  
LABS DO NOT MEET THIS WEEK! |
| 10   | October 22       | Oct. 21 @11:59pm | pg. 68-73       | 7: Block diagrams of folded and faulted rocks      |
| 11   | October 29       | Oct. 28 @11:59pm | pg. 90-92       | 8: Constructing a geologic cross section            |
| 12   | November 5       |                  |                 | 8: Constructing a geologic cross section (continued) |
| 13   | November 12      |                  |                 | Review for Lab Practical 2                         |
| 14   | November 19      |                  |                 | Lab Practical 2: Topographic and geologic maps (Labs 1 and 6-8) |