GEOL 4391
Planetary Geology

Instructor: Dr. Elizabeth C. Koeman-Shields
Email: ekoemanshields@angelo.edu
Phone: 616-446-6145 (cell)

Virtual Office Hours: By appointment only

Course Information

Student Learning Outcomes
This course is designed to familiarize the student with the processes, principles, and theories involved in Planetary Geology. The student will learn how to carefully defend their thinking when answering questions and completing assignments. Learning outcomes will be evaluated by homework, quizzes, and exams. At the end of this course, the student will be able to:

1. Use remotely sensed data (e.g., images, spectroscopy, etc.) to interpret the geology of an area.
2. Interpret the geologic history of an area on another planet or solar system body.

Required Texts and Materials
Textbook: Introduction to Planetary Geomorphology by Ronald Greeley (pdf located in Blackboard course)

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 will be required to turn in assignments on Blackboard and/or Gradescope using a scanner or camera.
Grading

Evaluation and Grades
Course grades will be determined as indicated in the table below.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Total Grade</th>
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</thead>
<tbody>
<tr>
<td>Chapter Reflections</td>
<td>50</td>
</tr>
<tr>
<td>Chapter Research Papers</td>
<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

- **Chapter Reflections**: These are assigned for each chapter. They will be in the form of journal submissions, quizzes, or activities.
- **Chapter Research Papers**: These are assigned for each chapter. Each research topic will be different but in general you should be writing 2-3 double spaced, 12 pt Times New Roman Font pages for each.

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 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
- 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. 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.
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.

Course Schedule (subject to change; time is central CDT)

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Due Dates</th>
</tr>
</thead>
</table>
| #1: 7/11 - 7/15 | Ch. 1: Introduction  
                             Ch. 2: Planetary Geomorphology Methods | 7/17 by 11:59pm |
| #2: 7/18 - 7/22 | Ch. 3: Planetary Morphologic Processes  
                             Ch. 4: Earth’s Moon | 7/24 by 11:59pm |
| #3: 7/25 - 7/29 | Ch. 5: Mercury  
                             Ch. 6: Venus  
                             Ch. 7: Mars | 7/31 by 11:59pm |
| #4: 8/1 - 8/5  | Ch. 8: The Jupiter System  
                             Ch. 9: The Saturn System | 8/7 by 11:59pm |
| #5: 8/8 - 8/12 | Ch. 10: The Uranus and Neptune Systems  
                             Ch. 11: Planetary Geoscience Future | 8/12 by 11:59pm |