PS 1315.030
Intro to Physical Science
Fall 2021
MWF 11:00 – 12:15 PM
VIN 158

Instructor: Professor Stephen Shields
Email: stephen.shields@angelo.edu
Office Phone: 325-486-6934
Office: Vincent 135

Office Hours: Monday/Wednesday 3 – 4pm; Tuesday 9 – 10:30am and 2 – 4pm; and Thursday 9 – 10:30am, and by appointment.

Course Description and Learning Outcomes
An introduction to the foundations of physical science, including selected areas of physics, chemistry, earth science, and space science.

LEARNING OUTCOMES & ASSESSMENT
Upon completion of this course, the student will gain factual knowledge in science, learn fundamental principles of science, and gain a broader understanding and appreciation of science.

Course Delivery
This course is a face-to-face course with learning resources and supplemental materials posted in Blackboard.

Required Texts and Materials
Textbook: None Required. Supplemental text can be found in Blackboard
Note: You are not required to purchase the book or online homework platform through the ASU Bookstore
Technology Requirements
To successfully complete this course, students need to be able to use Blackboard, and a calculator.

Communication
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.

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 to faculty, include the course name and section number in your subject line.

Virtual communication: Office hours and/or advising may be done with the assistance of the telephone or Collaborate.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Group Project</td>
<td>10</td>
</tr>
<tr>
<td>In-class activities</td>
<td>30</td>
</tr>
<tr>
<td>Quizzes (7 total)</td>
<td>60</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
</table>

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 %
Assignment and Activity Descriptions
You will be able to complete all activities in-person. All materials will be made available on Blackboard. Below is a general description of the graded items:
- **Group Project**: A Group Project that assesses critical thinking, teamwork, visual communication, and empirical and quantitative science is required. Instructions for the group project and how to complete and submit it are located in Blackboard.
- **In-class activities**: Each major topic we cover will have one to two in-class activities. You must be in class to receive credit on the assignment. Makeup activities are only available for students with University approved accommodations.
- **Quizzes**: In place of exams and a final exam, you will be tested through smaller quizzes. These quizzes will be taken through Blackboard, not in class.

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:

Dr. 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

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. In accordance with Title VII, Title IX, the Violence Against Women Act (VAWA), the Campus Sexual Violence Elimination Act (SaVE), and other federal and state laws, the University prohibits discrimination based on sex, which includes pregnancy, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination and unwelcome behavior of a sexual nature. The term includes sexual harassment, nonconsensual sexual contact, nonconsensual sexual intercourse, sexual assault, sexual exploitation, stalking, public indecency, interpersonal violence (domestic violence or dating violence), sexual violence, and any other misconduct based on sex.

You are encouraged to report any incidents involving sexual misconduct to the Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator, Michelle Miller, J.D. You may submit reports in the following manner:

Online: Incident Reporting Form
Face to Face: Mayer Administration Building, Room 210
Phone: 325-942-2022
Email: michelle.miller@angelo.edu

Note, as a faculty member at Angelo State, I am a mandatory reporter and must report incidents involving sexual misconduct to the Title IX Coordinator. Should you wish to speak to someone in confidence about an issue, you may contact the University Counseling Center (325-942-2371), the 24-Hour Crisis Helpline (325-486-6345), or the University Health Clinic (325-942-2171).

For more information about resources related to sexual misconduct, Title IX, or Angelo State’s policy please visit the Title IX website.

Information About COVID-19

Please refer to ASU’s COVID-19 (Coronavirus) Updates web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

YOU CAN MAJOR OR MINOR IN GEOLOGY @ ASU!

See the BS in Geoscience requirements. A Geology Minor requires 18 hours of geology courses. Good and rewarding careers exist for geologists, geophysicists, hydrogeologists, secondary science teachers, and petroleum engineers. Talk to your professor and read information about
geoscience careers\textsuperscript{14}.

 Modifications to the Syllabus

This syllabus, including grade evaluation and course schedule, is subject to modification on potentially short notice based on developing circumstances.

Course Schedule

Note: Subject to change. All due date/times are in central time zone.

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Recommended Reading</th>
<th>Quiz Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1: 8/23 – 8/27</td>
<td>The Scientific Method</td>
<td>Chapter 1</td>
<td></td>
</tr>
<tr>
<td>#2: 8/30 – 9/3</td>
<td>Galilean Motion</td>
<td>Chapter 2</td>
<td></td>
</tr>
<tr>
<td>#3: 9/6 – 9/10</td>
<td>Newtonian Motion and Gravity (no class 9/6)</td>
<td>Chapter 2</td>
<td>Quiz 1: 9/10</td>
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<tr>
<td>#6: 9/27 – 10/1</td>
<td>Relativity</td>
<td>Chapter 3</td>
<td></td>
</tr>
<tr>
<td>#7: 10/4 – 10/8</td>
<td>Temperature and Heat</td>
<td>Chapter 5</td>
<td>Quiz 3: 10/8</td>
</tr>
<tr>
<td>#8: 10/11 – 10/15</td>
<td>Matter and Thermodynamics</td>
<td>Chapter 5</td>
<td></td>
</tr>
<tr>
<td>#9: 10/18 – 10/22</td>
<td>Electricity and Magnetism</td>
<td>Chapter 6</td>
<td>Quiz 4: 10/22</td>
</tr>
<tr>
<td>#10: 10/25 – 10/29</td>
<td>Wave Motion and Sound</td>
<td>Chapter 7</td>
<td></td>
</tr>
<tr>
<td>#11: 11/1 – 11/5</td>
<td>Light and Color</td>
<td>Chapter 7</td>
<td>Quiz 5: 11/5</td>
</tr>
<tr>
<td>#12: 11/8 – 11/12</td>
<td>Radioactivity and Nuclear Energy</td>
<td>Chapter 8</td>
<td></td>
</tr>
<tr>
<td>#13: 11/15 – 11/19</td>
<td>Radioactivity and Nuclear Energy</td>
<td>Chapter 8</td>
<td>Quiz 6: 11/19</td>
</tr>
<tr>
<td>#15: 11/29 – 12/3</td>
<td>The Atom</td>
<td>Chapter 8</td>
<td></td>
</tr>
<tr>
<td>12/7</td>
<td>Final Quiz</td>
<td>10:30 – 12:30</td>
<td>Quiz 7: 12/7</td>
</tr>
</tbody>
</table>

\textsuperscript{1} https://blackboard.angelo.edu/  
\textsuperscript{2} https://www.angelo.edu/current-students/student-handbook/  
\textsuperscript{3} https://www.angelo.edu/academics/catalog/  
\textsuperscript{4} https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96