PS 1317-030 Physical Science
Spring 2021
TR 11:00 am – 12:15 pm VIN 158

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

Office Hours: Virtual and in-person hours are below
Monday and Wednesday: 1 – 3pm; Tuesday and Thursday: 3:30 – 4pm

Course Information

Course Description

An introduction to the foundations of physical science, including selected areas of physics, chemistry, earth science, and space science. 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. Learning outcomes will be assessed through in-class activities, and exams.

Prerequisite and Co-requisite Courses

None

Prerequisite Skills

None

Student Learning Outcomes

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
Choose ONE of the three statements listed below:

Statement for Synchronous Remote Sessions
To maintain academic quality while accommodating social distancing needs this semester, this course will use a split delivery model that combines face-to-face teaching with remote instruction.

The goal is to provide face-to-face instruction to students who want to return to campus, while also allowing students who may need to learn remotely to participate via virtual class sessions.

How Does It Work?
Your class will be divided and you will be placed into a smaller group of students to maintain physical distancing requirements in our assigned classroom space.

Your assigned group will receive a schedule of in-person class meetings. This schedule is not flexible. For instance, if you are supposed to attend class on a Tuesday, you cannot elect to go on Thursday with another class group instead.

When you are not in the physical class, you will attend live remote sessions at the same time as our scheduled course. You will also be expected to complete coursework via Blackboard.¹

Please refer to this Health and Safety web page² for updated information about campus guidelines as they relate to the COVID-19 pandemic.

Required Texts and Materials
“The Physical Universe”, by Krauskopf and Beiser (McGraw Hill, 2017) available in blackboard is required reading for this course. A calculator is needed to complete in-class activities. A student of this institution is not under any obligation to purchase a textbook from the university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Communication
Faculty 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.

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>Two Exams</td>
<td>20</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>15</td>
</tr>
<tr>
<td>In-class Activities</td>
<td>30</td>
</tr>
<tr>
<td>Group Project</td>
<td>10</td>
</tr>
<tr>
<td>Discussion Board Submissions</td>
<td>15</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</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 points
- B = 80.00-89.99 points
- C = 70.00-79.99 points
- D = 60.00-69.99 points
- F = 0-59.99 points (Grades may be rounded up)

Assignment and Activity Descriptions
All exams will be in Blackboard, including the final exam.

In-class activities will be done in class, but can also be completed outside of class for those attending remotely.

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
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 Miller, J.D.
Special Assistant to the President and Title IX Coordinator
Mayer Administration Building, Room 210
325-486-6357
michelle.boone@angelo.edu

You may also file a report online 24/7.
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, visit the Title IX website. 

**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.

**Course Schedule**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic or Module</th>
<th>Reading</th>
<th>Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/25 – 1/29</td>
<td>Course Overview</td>
<td>Chapter 9</td>
<td></td>
</tr>
<tr>
<td>2/1 – 2/5</td>
<td>Periodic Law</td>
<td>Chapter 10</td>
<td></td>
</tr>
<tr>
<td>2/8 – 2/12</td>
<td>Periodic Law</td>
<td>Chapter 10</td>
<td></td>
</tr>
<tr>
<td>2/15 – 2/19</td>
<td>Crystals, Ions, Solutions, Acids/Bases</td>
<td>Chapter 11</td>
<td>Exam 1 2/25</td>
</tr>
<tr>
<td>2/22 – 2/26</td>
<td>Chemical Reactions and Review</td>
<td>Chapter 12</td>
<td>3/2</td>
</tr>
<tr>
<td>Date Range</td>
<td>Topic</td>
<td>Chapter</td>
<td>Notes</td>
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<tr>
<td>3/1 – 3/5</td>
<td>Atmosphere and Hydrosphere</td>
<td>Chapter 14</td>
<td></td>
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<tr>
<td>3/8 – 3/12</td>
<td>Atmosphere/Hydrosphere, Rock Cycle</td>
<td>Chapter 15</td>
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<tr>
<td>3/15 – 3/19</td>
<td>Hydrocarbons and Chemistry of Life</td>
<td>Chapter 13</td>
<td></td>
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<tr>
<td>3/29 – 4/2</td>
<td>Solar System</td>
<td>Chapter 17</td>
<td></td>
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<tr>
<td>4/5 – 4/9</td>
<td>Solar System</td>
<td>Chapter 17</td>
<td></td>
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<tr>
<td>4/12 – 4/16</td>
<td>The Universe</td>
<td>Chapter 19</td>
<td></td>
</tr>
<tr>
<td>4/19 – 4/23</td>
<td>The Universe</td>
<td>Chapter 19</td>
<td></td>
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<tr>
<td>4/26 – 4/30</td>
<td>Water Quality</td>
<td></td>
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<tr>
<td>5/3 – 5/7</td>
<td>Final Exam Review</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/11</td>
<td>Exam 5/11: 10:30 – 12:30</td>
<td>Exam</td>
<td>5/11</td>
</tr>
</tbody>
</table>

1. [https://angelo.blackboard.com/](https://angelo.blackboard.com/)
3. [https://www.angelo.edu/current-students/student-handbook/](https://www.angelo.edu/current-students/student-handbook/)
4. [https://www.angelo.edu/academics/catalog/](https://www.angelo.edu/academics/catalog/)
6. [https://www.angelo.edu/current-students/disability-services/](https://www.angelo.edu/current-students/disability-services/)
7. [https://www.angelo.edu/content/files/14197-op-1011-grading-procedures](https://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
9. [https://www.angelo.edu/current-students/writing-center/academic_honesty.php](https://www.angelo.edu/current-students/writing-center/academic_honesty.php)
10. [https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)
11. [http://www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
12. [https://www.angelo.edu/title-ix](https://www.angelo.edu/title-ix)