

# PS 1317-030 Physical Science Spring 2022

TR 9:30 am – 10:45 pm VIN 158

---

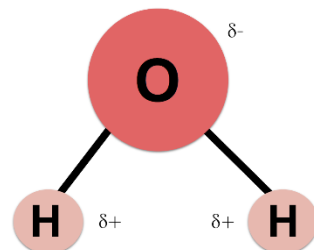


**Instructor: Stephen Shields**

Email: [stephen.shields@angelo.edu](mailto:stephen.shields@angelo.edu)

Phone: 325-486-6934

Office: VIN 135



**Office Hours: Virtual and in-person hours are below**

Monday: 1 – 4pm; Tuesday: 2 – 4pm; Friday 2 – 3pm

## 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

This is a face-to-face course with online components that students are expected to access in [Blackboard](#).<sup>1</sup>

You are expected to attend all scheduled class meetings in-person. Please inform me well ahead of time if you will need to be absent for any reason.

## Required Texts and Materials

“The Physical Universe”, by Krauskopf and Beiser (McGraw Hill, 2017) available in blackboard is recommended reading for this course. A calculator may be 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.

Assessment	Percent of Total Grade
Three Exams (10% each)	30
Comprehensive Final Exam	15
In-class Activities	40
Group Project	15
Total	100%

## 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. It is your responsibility to catch up on assignments and material that you miss if you can't attend a class. Lectures will not be recorded and material won't be made available remotely.

You are not automatically dropped if you stop attending class; **April 28<sup>th</sup> is the last day to drop a course**.

## **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](#)<sup>2</sup>
- [Angelo State University Catalog](#)<sup>3</sup>

## **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](#)<sup>4</sup> (Page 97).

## **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](mailto:ADA@angelo.edu). For more information about the application process and requirements, visit the [Student Disability Services website](#).<sup>5</sup> 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](mailto: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](#)<sup>6</sup> for more information.

## **Plagiarism**

Plagiarism is a serious topic covered in ASU's [Academic Integrity Statement](#)<sup>7</sup> 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](#).<sup>8</sup>

## **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](#)<sup>9</sup> 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](#)<sup>10</sup>

Face to Face: Mayer Administration Building, Room 210

Phone: 325-942-2022

Email: [michelle.miller@angelo.edu](mailto: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](#).<sup>11</sup>

## **Information About COVID-19**

Please refer to ASU's [COVID-19 \(Coronavirus\) Updates](#)<sup>12</sup> 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](#)<sup>13</sup>. A Geology Minor requires 18 hours of geology courses. Good and rewarding careers exist for geologists, geophysicists, hydrogeologists, environmental geologists, secondary science teachers, and petroleum engineers. Talk to your professor and read information about [geoscience careers](#)<sup>14</sup>.

## **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

Date	Topic or Module	Reading	Exam
1/18 – 1/21	Course Overview, Periodic Table	Chapter 9	
1/24 – 1/28	Periodic Law	Chapter 10	
1/31 – 2/4	Periodic Law	Chapter 10	
2/7 – 2/11	Crystals, Ions, Solutions, Acids/Bases	Chapter 11	Exam 1 2/11 – 2/14
2/14 – 2/18	Chemical Reactions	Chapter 12	
2/21 – 2/25	Atmosphere and Hydrosphere	Chapter 14	
2/28 – 3/4	Atmosphere/Hydrosphere, Rock Cycle	Chapters 14 & 15	
3/7 – 3/11	Chemistry of Life and Hydrocarbons	Chapters 4 & 13	Exam 2 3/10 – 3/13
3/14 – 3/18	Spring Break No Class		
3/21 – 3/25	Rock Cycle, Minerals, Rocks, Volcanoes	Chapter 15	
3/28 – 4/1	Plate Tectonics and Climate Change	Chapters 4 & 16	
4/4 – 4/8	Solar System No class 4/7	Chapter 17	Exam 3 4/8 – 4/11
4/11 – 4/15	Solar System	Chapter 17	
4/18 – 4/22	Stars and the Universe	Chapters 18 & 19	
4/25 – 4/29	The Universe	Chapter 19	Group Project Due 5/1
5/2 – 5/6	Final Exam Review	Exam	5/11
5/9 – 5/13	Exam 5/11: 10:30 – 12:30	Exam	

<sup>1</sup> <https://angelo.blackboard.com/>

<sup>2</sup> <https://www.angelo.edu/current-students/student-handbook/>

<sup>3</sup> <https://www.angelo.edu/academics/catalog/>

<sup>4</sup> <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97>

<sup>5</sup> <https://www.angelo.edu/current-students/disability-services/>

- 
- <sup>6</sup> <https://angelo.policystat.com/policy/10659448/latest/>
- <sup>7</sup> <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97>
- <sup>8</sup> [https://www.angelo.edu/current-students/writing-center/academic\\_honesty.php](https://www.angelo.edu/current-students/writing-center/academic_honesty.php)
- <sup>9</sup> <https://angelo.policystat.com/policy/10659368/latest/>
- <sup>10</sup> <https://www.angelo.edu/incident-form>
- <sup>11</sup> <https://www.angelo.edu/title-ix>
- <sup>12</sup> <https://www.angelo.edu/covid-19/>
- <sup>13</sup> [https://www.angelo.edu/physics/geoscience\\_degree.php](https://www.angelo.edu/physics/geoscience_degree.php)
- <sup>14</sup> [http://www.angelo.edu/dept/physics/Geosciences/geoscience\\_careers.php](http://www.angelo.edu/dept/physics/Geosciences/geoscience_careers.php)