

# PS 3312 010

## Physical Science Concepts II



### Instructor: Scott Williams

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Office: VIN 128

Office Hours: MWF 12:00 – 13:00 and TR 13:00 – 14:00

### Course Information

#### Course Description

A study of physical systems and sub-systems, interactions, variables, motion, energy, electricity, and magnetism

#### Prerequisite and Co-requisite Courses

None

#### Student Learning Outcomes

The objective of the study of the physical sciences as a component to the major curriculum for teacher education is to ensure excellence in the instruction of natural science objectives by the teachers in the State of Texas. Specific outcomes and objectives include that the student will:

1. Understand and apply appropriate methods and technology to the study of the natural sciences.
2. Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
3. Demonstrate technical and analytical skills appropriate to a future career in teaching by engaging in quantitative laboratory experimentation.
4. Demonstrate the intellectual ability to translate, interpret, and extrapolate the most important scientific models and laws governing units and measurement, motion, forces, matter, and energy.
5. Further develop critical thinking and problem-solving skills in physics and the natural sciences.

These course objectives will be assessed by observation of participation in the classroom activities and through the two in-class tests and six in-class quizzes.

## Course Delivery

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

## Required Texts and Materials

Physical Science 3312 Manual (Spring 2022 edition)

Scientific calculator

## Grading

### Evaluation and Grades

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

| Assessment    | Percent of Total Grade |
|---------------|------------------------|
| Participation | 40%                    |
| Quiz Average  | 30%                    |
| Test Average  | 30%                    |
| Total         | 100%                   |

### Grading System

Course grades will depend on completing course requirements and meeting the student learning outcomes.

This course uses the following grading scale:

|   |            |
|---|------------|
| A | 90% – 100% |
| B | 80% – 89%  |
| C | 70% – 79%  |
| D | 60% – 69%  |
| F | 0% – 59%   |

### Assignment and Activity Descriptions

Course attendance is the responsibility of the student. Attendance will be taken at each class meeting. Absences are neither excused nor unexcused. Students are expected to be in class for the full time. Students missing more than 10 minutes of class will receive a participation grade of zero for that day. For every 4th absence recorded, a course letter grade will be lost. Homework assignments and activities are counted as “participation” in the grading rubric. *Homework assignments (except for the Module O Homework assignment) may only be turned in through Blackboard and are due at the beginning of class before lecture begins. No late homework will be accepted.* Participation grades may

only be earned in class on the day of the activity. *Any form of cheating (which includes plagiarism) will result in a grade of F for the 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>

### 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 policy](#)<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.

## 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

|                          |           |
|--------------------------|-----------|
| 19 January – 26 January  | Module E  |
| 28 January               | Quiz #1   |
| 31 January – 16 February | Module EC |
| 18 February              | Quiz #2   |
| 21 February – 4 March    | Module M  |
| 7 March                  | Quiz #3   |
| 9 March                  | Review    |
| 11 March                 | Test #1   |
| 21 March – 30 March      | Module L  |
| 1 April                  | Quiz #4   |
| 4 April – 20 April       | Module O  |

|                       |          |
|-----------------------|----------|
| 22 April              | Quiz #5  |
| 25 April – 2 May      | Module A |
| 4 May                 | Quiz #6  |
| 6 May                 | Review   |
| 9 May (10:30 – 12:30) | Test #2  |

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- <sup>1</sup> <https://blackboard.angelo.edu/>
- <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=96>
- <sup>5</sup> <https://www.angelo.edu/current-students/disability-services/>
- <sup>6</sup> <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>
- <sup>7</sup> <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>
- <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://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of>
- <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/>