

PS 3312 020 Physical Science Concepts II

Course Schedule

Date	ID	Topic
Jan 18	Ea	Electric Charge
Jan 20	Eb	Electric Charge
Jan 25	Ec	Electric Charge
Jan 27	Q-E, ECa	quiz for module E, start module EC
Feb 1	ECb	Electric Circuits
Feb 3	ECc	Electric Circuits
Feb 8	ECd	Electric Circuits
Feb 10	ECe	Electric Circuits
Feb 15	ECf	Electric Circuits
Feb 17	Q-EC, Ma	quiz for module EC, start module M
Feb 22	Mb	Magnetism
Feb 24	Mc	Magnetism
Mar 1	Md	Magnetism
Mar 3	Me	Magnetism
Mar 8	Q-M, review	quiz for module M, review for exam 1
Mar 10	X-1	exam covering Modules E, EC, M
Mar 22	La	Light and Color
Mar 24	Lb	Light and Color
Mar 29	Lc	Light and Color
Mar 31	Q-L, Oa	quiz for module L, start module O
Apr 5	Ob	Optics
Apr 7	Oc	Optics
Apr 12	Od	Optics
Apr 14	Oe	Optics
Apr 19	Of	Optics
Apr 21	Q-O, Aa	quiz for module O, start module A
Apr 26	Ab	Astronomy
Apr 28	Ac	Astronomy
May 3	Ad	Astronomy
May 5	Q-A, review	quiz for module A, review for exam
May 12	X-2	exam for L, O, A starting at 08:00

Instructor: Charles Allen

Email: charles.allen@angelo.edu

Office: VIN 126

Office Hours: MWF 08:30—09:30, MTWR 11:00—12:00

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](#).¹

Required Texts and Materials

Physical Science 3312 Manual (Spring 2022 edition)

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.

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

Grading

Evaluation and Grades

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

Assessment	Points Available
Participation (27 × 9)	243
Homework (6 × 10)	60
Quizzes (6 × 38)	210
Tests (2 × 100)	200
Total	713

Grading System

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

This course uses the following grading scale:

A = 641–713 points

B = 570–640 points

C = 499–569 points

D = 427–498 points

F = 0–426 points

The number of points may change if assignments are changed, added, or removed.

Assignment and Activity Descriptions

Course attendance is the responsibility of the student. Attendance will be taken at each class meeting. Students are expected to be in class for the full time. Students missing more than 10 minutes of class will have their participation score for that day reduced accordingly. Homework assignments and activities are counted as “participation” in the grading rubric. Homework assignments (except for the Module O Homework assignment) are due at the beginning of class before lecture begins on the day of the corresponding quiz. 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.

Bonus points will be available by completing online activities on the physicsclassroom.com web site.

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](#)²
- [Angelo State University Catalog](#)³

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](#)⁴ (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. For more information about the application process and requirements, visit the [Student Disability Services website](#).⁵ 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 Procedures⁶ for more information.

Plagiarism

Plagiarism is a serious topic covered in ASU's Academic Integrity Statement⁷ 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.⁸

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 Day⁹ 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](#)¹⁰

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](#).¹¹

Information About COVID-19

Please refer to ASU's [COVID-19 \(Coronavirus\) Updates](#)¹² 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.

¹ <https://blackboard.angelo.edu/>

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

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

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

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

⁶ <https://angelo.policystat.com/policy/10659448/latest/>

⁷ <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97>

⁸ https://www.angelo.edu/current-students/writing-center/academic_honesty.php

⁹ <https://angelo.policystat.com/policy/10659368/latest/>

¹⁰ <https://www.angelo.edu/incident-form>

¹¹ <https://www.angelo.edu/title-ix>

¹² <https://www.angelo.edu/covid-19/>