Instructor Information

Name: Dr. Justin Bankert
Email: jbankert@angelo.edu
Office: Vincent 123
Office Hours: Tuesday, Thursday: 9:00 AM - 11:00 AM and 1:00 PM - 3:00 PM
Office Phone: (325) 486-6787

Class Times and Locations

Room: VIN 160
Times: Monday, Wednesday, Friday; 11:00 AM - 11:50 AM

Class Overview and Goals

The goal of this course is to give students and understanding of classical electricity and magnetism, optics, quantum mechanics, and atomic physics. This course is the second in an introductory sequence that includes PHYS 1401 General Physics I. This is an algebra based physics course. College-level algebra will be used and additional mathematical techniques will be introduced as needed. Students wishing to take calculus based physics should consider the course PHYS 2426 Fundamentals of Physics II.

Textbook

For this class, we will use a free online text book provided by the Openstax organization. The text book can be located at this website:

https://openstax.org/details/books/college-physics

Homework and Exams

Homework is assigned weekly via Blackboard. It is your responsibility to budget your time so you can put forth your own best effort on homework. Late homework will not be accepted. Homework will be collected in class and returned after grading. I do not mind students collaborating on homework assignments, but every student is responsible for the material covered in class and there will be no collaboration during exams. If you have any questions or issues with a homework assignment, please contact me via email and/or visit me during office hours.

There will be three midterm exams. The lowest midterm exam grade will be dropped. If you need to miss an exam, that will count as your dropped exam.
Grading

Laboratory Reports: 20 %
Homework: 30 % (Weekly Assignments)
Midterm Exams: 30 % (15 % Each)
Final Exam: 20 %

Extra credit opportunities may be announced throughout the semester.

Schedule

*Some dates may change as the semester progresses.

| Week of January 14 | None | Course Introduction and Math Review |
| Week of January 21 | Chapter 18 | Electric Charge and Fields |
| Week of January 28 | Chapter 19 | Electric Potential |
| Week of February 4 | Chapter 20 | Midterm 1, Electric Current and Resistance |
| Week of February 11 | Chapter 21 | DC Circuits |
| Week of February 18 | Chapter 22 | Magnetism |
| Week of February 25 | Chapter 23 | AC Circuits |
| Week of March 4 | Chapter 24 | Electromagnetic Waves, Midterm 2 |
| Week of March 11 | None | Spring Break |
| Week of March 18 | Chapter 25 | Geometric Optics |
| Week of March 25 | Chapter 27 | Wave Optics |
| Week of April 1 | Chapter 28 | Special Relativity |
| Week of April 8 | Chapter 29 | Quantum Mechanics |
| Week of April 15 | Chapter 30 | Midterm 3, Atomic Physics |
| Week of April 22 | Chapter 31 | Radioactivity |
| Week of April 29 | None | Review |
| May 8 | 10:30 AM - 12:30 PM | Final Exam |

Student Disability Services

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.

The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the students responsibility to initiate such a request by contacting Ms. Dallas A. Swafford, Director of Student Disability Services; dallas.swafford@angelo.edu
Title IX

Angelo State University is committed to the safety and security of all students. If you or someone you know experience sexual harassment, sexual assault, domestic or dating violence, stalking, or discrimination, you may contact ASUs Title IX Coordinator: Michelle Nicole Boone, J.D. Director of Title IX Compliance; michelle.boone@angelo.edu

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.

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.

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 Statement of Academic Integrity

Plagiarism

Plagiarism is a serious topic covered in ASUs Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone elses work, idea, etc., and passing it off as ones 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 via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.
Copyright Policy

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

General Policies

All students are required to follow the policies and procedures presented in these documents: Angelo State University Student Handbook, Angelo State University Catalog