Instructor: Dr. Eddie ‘Trey’ Holik III
Email: eddie.holik@angelo.edu
Phone: 325-942-5452
Office: VIN 121

Office Hours: TR 9a – 9:30a & 11a – 12p, MWF 9a – 10a, and by appt.

Course Information

Course Description
A comprehensive course with emphasis placed on the capacity to use fundamental concepts of electricity, magnetism, and optics in the solution of problems.

Prerequisite and Co-requisite Courses
Concurrent enrollment in, or credit for, Physics 2126 and Mathematics 2414 is required.

Student Learning Outcomes
Upon completion of Physics 2326, students will have an increased understanding of the fundamental concepts, theories and physical laws relevant to the broad topical areas of electricity, magnetism, circuits, and optics. Students will have practiced and demonstrated a satisfactory level of mastery in critical reading, critical thinking, and problem solving skills. Students will also develop and improve technical communication skills required for scientific reporting. These outcomes will be assessed using online Blackboard¹ homeworks, daily grades, and test grades.

Course Delivery
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?**
At the beginning of the semester I will ask for volunteers to participate in the course online-only. This will enable the majority of the class to meet face-to-face each class meeting. I will be recording and live-streaming each lecture via Bb collaborate.

Those students majoring in physics or engineering are strongly encouraged to attend face-to-face lectures.

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.²

Please refer to this Health and Safety web page³ for updated information about campus guidelines as they relate to the COVID-19 pandemic.

**Required Texts and Materials**
Any calculus-based physics text will work for this course. Lectures will follow University Physics from Openstax, Volume II and Volume III. If you prefer a hard copy of a text, then check online for old editions of Halliday, Serway, Openstax, etc... For lab, you need Physics 2126 Laboratory Manual (2020) available from the University Bookstore. You also need a calculator.
Course Schedule

<table>
<thead>
<tr>
<th>Week of</th>
<th>Course Schedule (ref. Open Stax Phys. Vol II, III)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-Jan</td>
<td>The Nature of Light (Volume III, Unit 1, Chapter 1)</td>
</tr>
<tr>
<td>1-Feb</td>
<td>Geometric Optics and Image Formation (Volume III, Unit 1, Chapter 2)</td>
</tr>
<tr>
<td>8-Feb</td>
<td>Interference and Diffraction (Volume III, Unit 1, Chapter 3 &amp; 4)</td>
</tr>
<tr>
<td>15-Feb</td>
<td>Review/Exam 1</td>
</tr>
<tr>
<td>22-Feb</td>
<td>Electric Charges and Fields, Gauss’ Law (Volume II, Unit 2, Chapter 5 &amp; 6)</td>
</tr>
<tr>
<td>1-Mar</td>
<td>Electric Potential and Capacitance (Volume II, Unit 2, Chapter 7 &amp; 8)</td>
</tr>
<tr>
<td>8-Mar</td>
<td>Review/Exam 2</td>
</tr>
<tr>
<td>15-Mar</td>
<td>Current, Resistance, DC circuits (Volume II, Unit 2, Chapter 9 &amp; 10)</td>
</tr>
<tr>
<td>22-Mar</td>
<td>Magnetic Forces, Fields, and Sources (Volume II, Unit 2, Chapter 11 &amp; 12)</td>
</tr>
<tr>
<td>29-Mar</td>
<td>Review/Exam 3</td>
</tr>
<tr>
<td>5-Apr</td>
<td>Electromagnetic Induction/Inductance (Volume II, Unit 2, Chapter 13 &amp; 14)</td>
</tr>
<tr>
<td>12-Apr</td>
<td>AC circuits (Volume II, Unit 2, Chapter 15)</td>
</tr>
<tr>
<td>19-Apr</td>
<td>EM waves (Volume II, Unit 2, Chapter 16)</td>
</tr>
<tr>
<td>26-Apr</td>
<td>Review/Exam 4</td>
</tr>
<tr>
<td>10-May</td>
<td>Monday 10:30am Comprehensive Final Exam</td>
</tr>
</tbody>
</table>

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>Homework</td>
<td>30</td>
</tr>
<tr>
<td>Four Exams</td>
<td>50</td>
</tr>
<tr>
<td>Comprehensive Final</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

Grading will traditionally be determined as >90 = A, >80 = B, >70 = C, >60 = D, <59 = F.
Homeworks
Homeworks will be completed online. You will have an unlimited number of attempts to receive full credit for each homework. Late homeworks will be accepted but with 20% reduction per day.

Midterm Exams
The exams will cover all materials lectured and online homework questions. Each exam will have a take-home and an in-class portion. The take home will be completed independently and submitted via gradescope. It will be due BEFORE the designated in-class exam. No late exams will be accepted. However, the lowest grade of the four midterm exams will be dropped.

Comprehensive Final Exam
The final exam will cover all four sections (optics, electric field, magnetic field, electrodynamics) and is 20% of your grade.

Policies
Mobile phones and music players must be silenced at all times. Use of any electronic device other than your calculator during a test is not allowed. There are no make-up opportunities for quizzes or in-class activities. Homework will be assigned approximately once a week online with clearly articulated due dates. You will have as many chances to solve the homework as necessary before the due date to master the material. You are encouraged to print these assignments for exam study. Late homeworks will not be accepted!

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
- Angelo State University Catalog

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.

1 https://angelo.blackboard.com/
2 https://angelo.blackboard.com/
3 https://www.angelo.edu/covid-19/returning-to-campus/health-and-safety.php
4 https://www.angelo.edu/current-students/student-handbook/
5 https://www.angelo.edu/academics/catalog/
7 https://www.angelo.edu/current-students/disability-services/
8 https://www.angelo.edu/content/files/14197-op-1011-grading-procedures
10 https://www.angelo.edu/current-students/writing-center/academic_honesty.php
11 https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
12 http://www.angelo.edu/incident-form
13 https://www.angelo.edu/title-ix