Instructor: Andrew B. Wallace
Email: awallace@angelo.edu
Phone: 3254866516
Office: Vincent 125

Office Hours: 2:00-4:30 TW pm or by appointment

Course Information

Course Description
A comprehensive course with emphasis placed on the capacity to utilize the fundamental concepts of mechanics and thermodynamics in the solution of problems.

Prerequisite and Co-requisite Courses
Concurrent enrollment in, or credit for, Physics 2125 and Mathematics 2413 is required.

Prerequisite Skills
Ability to use Blackboard, to use a scientific calculator, and proficiency in college algebra are expectations of this course.

Student Learning Outcomes
Upon completion of this course, students will be able to:
- gain factual knowledge in physics,
- learn fundamental principles of physics, and
- apply course material to problem solving.

Course Delivery
This course is a face-to-face course with learning resources and supplemental materials posted in Blackboard.

Required Texts and Materials
Any calculus-based physics text will work for this course. Open source calculus-based physics textbooks are available in the Course Materials folder of Blackboard. If you prefer a hard copy of a text, then check online for old editions of Halliday, Serway, etc... A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.
**Technology Requirements**
To successfully complete this course, students need to use a scientific calculator, Blackboard, and complete the IDEA student ranking of instruction.

**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.

**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 Assignments</td>
<td>35%</td>
</tr>
<tr>
<td>Exams</td>
<td>45%</td>
</tr>
<tr>
<td>Physics Concept Inventory</td>
<td>20%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

**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 = 90-100 points
- B = 80-89 points
- C = 70-79 points
- D = 60-69 points
- F = 0-59 points (half points are rounded up)

**Assignment and Activity Descriptions**
The Physics Concept Inventory will be used to assess this course for institutional requirements. Assignments are completed in Blackboard. Late assignments will receive zero credit. The laboratory grade is separate from the lecture grade.

**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 to 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 Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

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 about Title IX in general you may visit www.angelo.edu/title-ix.

**Facial Covering Policy**

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.

## Course Schedule

<table>
<thead>
<tr>
<th>Lesson</th>
<th>Dates</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>Aug 17</td>
<td><em>Due Aug 18 by 11:59 PM</em>&lt;br&gt;• Complete and Submit: Introduction Assignment</td>
</tr>
<tr>
<td>One-Dimensional Motion</td>
<td>Aug 19-24</td>
<td>*Due Aug 25&lt;br&gt;• Complete and Submit: One-Dimensional Motion Assignment</td>
</tr>
<tr>
<td>Energy</td>
<td>Aug 26-28</td>
<td>*Due Aug 30&lt;br&gt;• Complete and Submit: Energy Assignment</td>
</tr>
<tr>
<td>Potential Energy and Force</td>
<td>Aug 31-Sep 4</td>
<td>*Due Sep 8&lt;br&gt;• Complete and Submit: Potential Energy and Force Assignment</td>
</tr>
<tr>
<td>Sep 7 Labor Day Holiday</td>
<td></td>
<td>*all due times are 11:59 pm CST, unless otherwise specified</td>
</tr>
<tr>
<td>Exam #1</td>
<td>Sep 9</td>
<td></td>
</tr>
<tr>
<td>Work, Power, and Energy Dissipation</td>
<td>Sep 11-16</td>
<td>*Due Sep 17&lt;br&gt;• Complete and Submit: Work, Power, and Dissipation Assignment</td>
</tr>
<tr>
<td>Impulse and Momentum</td>
<td>Sep 18-23</td>
<td>*Due Sep 24&lt;br&gt;• Complete and Submit: Impulse and Momentum Assignment</td>
</tr>
<tr>
<td>Vectors</td>
<td>Sep 25-30</td>
<td>*Due Oct 1&lt;br&gt;• Complete and Submit: Vectors Assignment</td>
</tr>
<tr>
<td>Two-Dimensional Motion</td>
<td>Oct 2-9</td>
<td>*Due Oct 11&lt;br&gt;• Complete and Submit: Two-Dimensional Motion Assignment</td>
</tr>
<tr>
<td>Exam #2</td>
<td>Oct 12</td>
<td></td>
</tr>
<tr>
<td>Circular Motion</td>
<td>Oct 14-23</td>
<td>*Due Oct 25&lt;br&gt;• Complete and Submit: Circular Motion Assignment</td>
</tr>
<tr>
<td>Harmonic Motion</td>
<td>Oct 26-28</td>
<td>*Due Oct 29&lt;br&gt;• Complete and Submit: Harmonic Motion Assignment</td>
</tr>
<tr>
<td>Waves and Sound</td>
<td>Oct 30-Nov 6</td>
<td>*Due Nov 8&lt;br&gt;• Complete and Submit: Waves and Sound Assignment</td>
</tr>
<tr>
<td>Exam #3</td>
<td>Nov 9</td>
<td></td>
</tr>
<tr>
<td>Temperature, Heat, and Gases</td>
<td>Nov 11-13</td>
<td>*Due Nov 15&lt;br&gt;• Complete and Submit: Temperature, Heat and Gases Assignment</td>
</tr>
<tr>
<td>Thermodynamics</td>
<td>Nov 16-18</td>
<td>*Due Nov 19&lt;br&gt;• Complete and Submit: Thermodynamics Assignment</td>
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</tbody>
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