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

Office Hours: by email appointment

Course Information

Course Description
Laboratory experiences designed to accompany Physics 1301. Experiments to study mechanics, thermodynamics, and waves. (This course will not count as the introductory physics course for physics majors and pre-engineering majors.)

Prerequisite and Co-requisite Courses
Prerequisite: Mathematics 1314 or equivalent.

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

Student Learning Outcomes
Upon completion of this course, students will be able to:
- Learn appropriate methods for collecting, analyzing, and interpreting numerical information
- Acquiring skills in working with others as a member of a team

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

Required Texts and Materials
“Physics 1101 Laboratory Manual” (Charles Allen, 2021) is available through the University Bookstore. You also need a scientific calculator to complete laboratory calculations. 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 graphing software such as GNU Plot, Microsoft Excel, or Google Sheets.

**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>Prelab Assignments</td>
<td>25%</td>
</tr>
<tr>
<td>Lab Reports</td>
<td>75%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</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 = 90.00-100 points
- B = 80.00-89.99 points
- C = 70.00-79.99 points
- D = 60.00-69.99 points
- F = 0-59.99 points (Grades are not rounded up)

**Assignment and Activity Descriptions**
If you have *not completed* the ASU Lab Safety module in Blackboard, then you must complete this module by the third scheduled lab period. Prelab assignments are turned in at the beginning of lab periods. Lab Reports are turned in at the end of lab periods. Prelab assignments will assess visual critical thinking (CT) and empirical and quantitative science (EQS). Lab Reports will assess visual communication (CS) and teamwork (TW).

**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](#).³

**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](#).⁴ 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.⁷

**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 Day⁸ 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 online⁹ 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.¹⁰

**Laboratory Schedule**

<table>
<thead>
<tr>
<th>WEEK of</th>
<th>LABORATORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 23</td>
<td>No Lab, Purchase lab manual</td>
</tr>
<tr>
<td>Aug 30</td>
<td>Introduction to Lab Reports</td>
</tr>
<tr>
<td>Sep 6</td>
<td>Uniform Accelerated Motion</td>
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<tr>
<td>Sep 13</td>
<td>Projectile Motion*</td>
</tr>
<tr>
<td>Sep 20</td>
<td>Newton’s Second Law</td>
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<tr>
<td>Sep 27</td>
<td>Rotational Equilibrium</td>
</tr>
<tr>
<td>Oct 4</td>
<td>Conservation of Energy</td>
</tr>
<tr>
<td>Oct 11</td>
<td>Archimedes’ Principle</td>
</tr>
<tr>
<td>Oct 18</td>
<td>Simple Pendulum</td>
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<tr>
<td>Date</td>
<td>Topic</td>
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<tr>
<td>Oct 25</td>
<td>Speed of Sound</td>
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<tr>
<td>Nov 1</td>
<td>Ideal Gas Law</td>
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<tr>
<td>Nov 8</td>
<td></td>
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<tr>
<td>Nov 15</td>
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<tr>
<td>Nov 22</td>
<td>No Lab, Nov 25-26 Holidays</td>
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<tr>
<td>Nov 29</td>
<td>No Lab, Lab Practicum Week</td>
</tr>
<tr>
<td>Dec 6</td>
<td>No Lab, Final Exam Week</td>
</tr>
</tbody>
</table>

*Lab Safety Quiz Completed

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2. https://www.angelo.edu/academics/catalog/
4. https://www.angelo.edu/current-students/disability-services/
5. https://www.angelo.edu/content/files/14197-op-1011-grading-procedures
7. https://www.angelo.edu/current-students/writing-center/academic_honesty.php
8. https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
10. https://www.angelo.edu/title-ix