

# PHYS-1102

## General Physics II Lab



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Date	Lab
July 11 and 12	Lab Tools Challenges (extra credit prelab, online)
July 13 and 14	Introduction to Lab Reports
July 18 and 19	Ohm's Law and Resistivity
July 20 and 21	Resistor Combinations
July 25 and 25	RC Time Constant
July 27 and 28	Magnetic Field of a Long Straight Wire
August 1 and 2	Refraction and Snell's Law
August 3 and 4	Thin Lenses
August 8 and 9	The Hydrogen Atom Line Spectrum
August 10 and 11	Velocity from Repulsion (extra credit report, online)

### Instructor: Charles Allen

Email: [charles.allen@angelo.edu](mailto:charles.allen@angelo.edu)

Phone: 325-486-6780

Office: VIN 126

**Office Hours: MTWR 12:30-13:30, or by appointment**

## Course Information

### Course Description

Laboratory experiences designed to accompany Physics 1302. Experiments to study of electricity, magnetism, light, and atomic physics. (This course will not count as the introductory physics course for physics majors and pre-engineering majors.)

### Prerequisite and Co-requisite Courses

Physics 1301 or equivalent.

### Prerequisite Skills

Ability to use Blackboard, Notepad, Gnuplot, and a scientific or online calculator capable of standard deviation calculations are expectations of this course.

## Student Learning Outcomes

Upon completion of this course, student will be able to:

- Work with others as members of a team, and
- Collect, analyze, and interpret numerical information.

## Course Delivery

This is a face-to-face course with learning resources and supplementary materials posted in [Blackboard](#).<sup>1</sup>

## Required Texts and Materials

PHYS-1102 Lab Manual (2022 version) and a scientific calculator.

## Technology Requirements

To successfully complete this course, students need to use Blackboard, Gradescope, Gnuplot, and a scientific calculator.

## 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. 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 scores will be determined as indicated in the table below.

Assessment	Points
8 prelabs	200
8 lab reports	600
SCORE BASED ON POINTS	800
extra credit (1 prelab, 1 report)	100
TOTAL POINTS AVAILABLE	900

### Grading System

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

This course uses the following grading scale:

A = 720 to max points (at least 90% of 800 points)

B = 640 to 719 points (at least 80% of 800 points)

C = 560 to 639 points (at least 70% of 800 points)

D = 480 to 559 points (at least 60% of 800 points)

F = 0 to 479 points

## Assignment and Activity Descriptions

Each lab consists of a prelab quiz and a lab report. Prelabs are to be completed by hand, scanned, and turned in via Gradescope. Prelabs are due by 14:00 (2pm) on the day of your lab. Prelabs marked as late by Gradescope will receive a 10 point penalty.

You will work in groups of 2-3 to complete a lab report. One lab report is turned in per group. The group members will all receive the same points for that report. Lab reports must be turned in before you leave lab.

One optional extra credit prelab will be available online during the days for the first lab session. One optional extra credit lab report will be available online starting about midway through the course. The extra credit lab report will be turned in via Gradescope.

## 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](#)<sup>2</sup>
- [Angelo State University Catalog](#)<sup>3</sup>

## 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](#).<sup>4</sup>

## 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](#).<sup>5</sup> 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](mailto: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](#)<sup>6</sup> for more information.

## **Plagiarism**

Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#)<sup>7</sup> 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](#).<sup>8</sup>

## **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](#)<sup>9</sup> 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](#)<sup>10</sup>

Face to Face: Mayer Administration Building, Room 210

Phone: 325-942-2022

Email: [michelle.miller@angelo.edu](mailto: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](#).<sup>11</sup>

## **Information About COVID-19**

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

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<sup>1</sup> <https://blackboard.angelo.edu/>

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- 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=96>
  - 5 <https://www.angelo.edu/current-students/disability-services/>
  - 6 <https://www.angelo.edu/content/files/14197-op-1011-grading-procedures>
  - 7 <https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=96>
  - 8 [https://www.angelo.edu/current-students/writing-center/academic\\_honesty.php](https://www.angelo.edu/current-students/writing-center/academic_honesty.php)
  - 9 [https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-](https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of)  
[of](#)
  - 10 <https://www.angelo.edu/incident-form>
  - 11 <https://www.angelo.edu/title-ix>
  - 12 <https://www.angelo.edu/covid-19/>