

Objectives of Course

1. To provide a broad background for the non-science student in physics.
2. To develop and/or foster an appreciation for the sciences.
3. To relate as much as possible to the world around us and to each student's discipline.

Grades: Your term grade will be based on your performance on seven quizzes, laboratory, and either a term paper or a laboratory project. The relative proportion of your grade of each is as follows:

Quizzes	50%
Laboratory	25%
Term paper or laboratory project	10%
Final Exam	15%

The Grading Scale is established by the following standards:

Above 90%	A	74-76%	C+		
87-89%	A-	70-73%	C		
84-86%	B+	67-69%	C-		
80-83%	B	64-66%	D+		
77-79%	B-	60-63%	D	Below 60%	F

Text:

Kirkpatrick & Francis: **Physics: A Conceptual World View** 7th Edition 2010, ISBN-13: 978-0-495-39152-4 or ISBN-10: 0-495-39152-2.

Quizzes

Quizzes will be held approximately every third lecture and will last about 30 minutes. (Quiz 1 is scheduled for Tuesday, September 22.) Everyone should have a basic calculator (+ - x / and sqrt) available. Please no cell phones or other devices that can connect to the internet. All quizzes will be closed book.

Laboratory

There are three sections of laboratory for this class. Section A1 is on Tuesdays from 2:30 to 4:30 PM; Section A2 is on Wednesdays from 8 to 10 AM; and Section A3 is on Wednesdays from 2 to 4 PM. All laboratories are scheduled for room RS 106. One must pass the laboratory component in order to pass this course.

There will be laboratory write-ups in this class. The specific format will be laid out during your first scheduled laboratory.

Term Project or Laboratory Project

You have an option for choosing any one of these for your remaining 15% credit for the course. However, please make a choice as to *which* of the two you prefer by Thursday, November 12.

The term paper should be an physics topic of special interest to you. The length should be from 5 to 7 pages but should mainly be determined by how long it takes you to develop your topic. Include sources at end of paper and connect as best you can to class and to our text. Be sure to include direct references to your sources throughout your paper. There will also be a "tough topic" component in grading. Use "legitimate" webpage resources. Term papers will be due no later than Tuesday, December 8.

A laboratory project can also be performed. You may work on this project at home and/or in the physics laboratory during the afternoons. I shall be happy to try to answer your questions and to provide encouragement along the way, but you will propose the project and you will do the work. Due date is also Tuesday, December 8.

The proposal for the lab project and the topic for the term papers should be approved (please!) by J. Artz no later than Tuesday, November 24.

Office Hours and comments:

Office Hours: For one hour immediately preceding class and immediately following class. You can also catch me to answer question before and after the laboratories. However, I will not be available immediately preceding class every other Thursday beginning Sept. 17 due to meetings. (This includes Sept. 17, Oct. 1,8,29, Nov. 12, and Dec. 10.)

Comments: My Office: RS 126,
Office Phone #651-523-2256,

(NOTE: Tutoring and student help will be made available if requested.)

Laboratory Safety Statement:

Please exercise courtesy and common sense judgment when working in the physics laboratory, and remember:

If you are in doubt about any procedure, or if it may seem unsafe to you, then do not continue. Ask your instructor for help.

- Avoid leaving books, backpacks, and jackets in the middle of the floor when in the lab because we do not want anyone tripping and hurting themselves.
- Use caution when using sharp objects (razor blades or scissors). Whenever possible, move or point the cutting blade away from your body.
- Do not look directly into a laser. When using lasers, maintain a constant beam height over the table and do not bend so that your eyes are at optical bench level (remember that there are others in the room using other lasers and we do not want accidental entry of laser light into anyone's eyes).
- Food and drink are not allowed into labs with radioactive materials.
- Please do not bring food and drink into the lab when there is any danger of damaging electrical or computer equipment.
- Always handle equipment with care. Equipment will occasionally break due to normal usage. Do what you can to help us lengthen the life of our equipment. If you think a piece of equipment is damaged, then please let the instructor know as soon as possible. We want to maintain all of our equipment in good working order.

Course Evaluations:

Student feedback is a vital element for review of class and faculty effectiveness. All students are expected to participate in the course evaluation process as administered by the university; course evaluation is considered to be a part of the curriculum of all courses. *A small amount of credit will be given in this class upon documentation that you have completed all of your course evaluations.*

And Finally:

IF YOU EVER HAVE CONCERNS, PROBLEMS, GRIPES, ETC. SEE ME, SEE ME, SEE ME! PLEASE DON'T EVEN THINK OF MISSING A SINGLE CLASS! THIS COURSE IS PACKED AND INTENSE with, hopefully, a wealth of material for life-long learning.

GOOD LUCK, WORK HARD, AND HAVE FUN! Jerry Artz