

PHY 108-005/006 – College Physics I – Fall 2018
Department of Physics – Illinois State University

Instructor: Dr. Epaminondas Rosa, Jr
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Class meetings: Mon Tue Wed Thu 11:00 AM – 11:50 AM, MLT 309
Labs: Fri 11:00 AM – 1:50 PM, MLT 203 – Lab Instructor: Zach Mobbille (zdmobbil@ilstu.edu)
Office hours: By appointment
Textbook: *Physics*, by Cutnell and Johnson, 9th edition, Wiley
<http://www.wileydirect.com.au/buy/physics-9th-edition/>
Lab Manual: *Physics 108 College Physics – Experiments & Sample Problems*, Stipes
Both the textbook and the lab manual are available at Alamo II and Barnes & Noble

Overview:

PHY 108 involves basic principles of mechanics, fluids, heat, waves and sound, developed with algebra. It includes diverse scientific and technological applications and requires two years of high-school algebra. Important: Stay up-to-date with the material, actually it is recommended that you read the topics in the textbook ahead of the lectures.

Special attention to the First Chapter and Appendices in the textbook is strongly recommended. They contain the fundamentals of algebra, trigonometry and vectors to be used throughout the semester.

Grading:

There will be three 50-minute tests and a final exam. The lowest score of the three tests will be dropped. There will be one final exam, comprehensive and will not be dropped. There will be at least eight quizzes, and only seven highest quiz scores will be counted. There will be eight lab reports, and only the seven highest lab report scores will be counted.

Check your grades in ReggieNet: <https://reggienet.illinoisstate.edu>

Grade scheme distribution:

2 tests x 18	36
7 quizzes x 3	21
7 lab reports x 3	21
1 final exam x 22	22
Total	100

Grading scale:

90% and above	A
80% - 89.9%	B
70% - 79.9%	C
55% - 69.9%	D
bellow 55%	F

Tentative Schedule:

#	Week of	Chapters	Labs and Tests
1	Aug 20	1 - 2	No lab this week
2	Aug 27	3 - 4	Lab 01: Equilibrium of Forces No class on Monday (Labor Day)
3	Sep 03	4 - 5	Lab 02: Newton's 2nd Law
4	Sep 10	5 - 6	No lab this week
5	Sep 17	6 - 7	Lab 03: Centripetal Force Test #1 (Mon Sep 17)
6	Sep 24	7 - 8	Lab 04: Ballistic Pendulum
7	Oct 01	8 - 9	No lab this week
8	Oct 08	9 - 10	Lab 05: Simple Harmonic Motion
9	Oct 15	10 - 11	No lab this week
10	Oct 22	11 - 12	No lab this week Test #2 (Mon Oct 22)
11	Oct 29	12 - 13	Lab 06: Density
12	Nov 05	13 - 14	Lab 07: Heat Capacity
13	Nov 12	14 - 15	No lab this week
	Nov 19		Thanksgiving break - No classes
14	Nov 26	15 - 16	Lab 08: Speed of Sound Test #3 (Thu Nov 29)
15	Dec 03	16 - 17	No lab this week
			Final Exam - Date and time TBA

General policies and recommendations:

- Pre-Labs are due at the beginning of the lab section. There will be no allowed time during the lab section for pre-lab work. Lab reports are due by the end of each lab section. Late lab reports will not be accepted.
- There is no makeup work for labs, quizzes, and exams.
- No calculators, no computers, no tablets, no phones allowed during quizzes, tests, and the final exam. No computers, no tablets, no phones allowed during lectures and lab sections.
- You are responsible for any material covered in class whether or not you are present. Materials in the required sections (as well as labs) not covered in the lectures may be tested.
- Tests, quizzes and final exam are close-book. Borrowing of books, notes, calculators, or any other materials during tests and quizzes is not allowed.
- This syllabus is tentative and may change at the discretion of the instructor.
- Any kind of behavior that disturbs the lectures, lab sections, quizzes, tests and final exam is not acceptable, and may have a negative impact on your grade. This includes but is not limited to talking, making noises, and using cell phones. All incidences of cheating will be handled via the university guidelines for academic dishonesty.
- If you need special accommodations to fully participate in this class, please contact Student Access and Accommodation Services at (309)438-5853.