

College Physics Syllabus

Course Information

- **Course Title:** College Physics I
- **Course Code:** PHY 101
- **Semester:** Fall 2024
- **Instructor:** Dr. Jordan Smith
- **Email:** jordan.smith@university.edu
- **Office Hours:** Tue & Thu 2:00–4:00pm, Room 312
- **Class Schedule:** Mon, Wed, Fri 10:00–10:50am, Room S120

Course Description

An introduction to the fundamental concepts and principles of physics, including mechanics, heat, and sound. Emphasis is placed on problem solving and conceptual understanding for students pursuing careers in science, engineering, and related fields.

Textbook & Materials

- **Required:** College Physics, 11th Edition by Young & Geller
- **Calculator:** Scientific calculator (non-programmable)
- **Other Materials:** Access to online homework system

Course Topics & Schedule

Week	Topics	Readings
1	Introduction, Measurements & Units	Chapter 1
2	Vectors, Motion in 1D	Chapters 2-3
3-4	2D Motion, Newton's Laws	Chapters 4-5
5	Applications of Newton's Laws	Chapter 6
6	Work & Energy	Chapter 7
7	Momentum & Collisions	Chapter 8
8	Rotation	Chapter 9
9	Review & Midterm Exam	
10-12	Oscillations, Waves, and Sound	Chapters 10-13
13	Temperature & Heat	Chapter 14
14-15	Thermodynamics	Chapters 15-16
16	Final Review & Exam	

Grading

Component	Weight
Homework & Quizzes	20%
Labs	20%

Midterm Exam	25%
Final Exam	35%

Policies

- Attendance is expected at all lectures and labs.
- Late assignments incur a 10% penalty per day late.
- Notify the instructor in advance for excused absences.
- Academic integrity is expected in all work.

Additional Information

- All materials and announcements will be posted on the course website.
- Accommodations can be arranged with documentation from Student Services.

This syllabus is subject to change at the discretion of the instructor with prior notice to students.