SYLLABUS - PHYSICS 121S-401FS
EDISON STATE COMMUNITY COLLEGE

Instructor Information

Instructor: Mrs. Andrea Perhai
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Faculty Class Qualifications: MS Electrical Engineering, AFIT (2014), BA Mathematics, Cedarville University (2012)

Course Materials

Textbook

Urone, Hinrichs, College Physics 2e, OpenStax, 2022. This textbook is available free at https://openstax.org/books/college-physics-2e/pages/1-introduction-to-science-and-the-realm-of-physics-physical-quantities-and-units. A physical copy of the textbook is not needed.

Calculator

A scientific calculator or graphing calculator. Cell-phone calculators are not permitted during exams.

Additional Resources

- Blackboard: https://edisonohio.blackboard.com/webapps/login/
- WebAssign: https://www.webassign.net/
- WebAssign Class key: **edisonohio 6026 0037**

Course Grades and Important Dates

Grades

Your overall grade is weighted as follows: Homework: 15%, Lab Reports 20%, Exams: 60%, Attendance: 5%
Letter grades are determined as follows: A: 90-100%, B: 80-89% C: 70-79%, D: 60-69%, F: <60%

Important Dates

Final Withdrawal: November 2, 2026. Last day to get a refund: September 7, 2026

Class Policies

Cheating

Please see the Edison Student Handbook (www.edisohio.edu/handbook) concerning the school policy on cheating. Incidents can result in loss of credit for work or removal from the course.

Homework

- Homework assignments will be due every Tuesday at midnight unless we are taking an exam. The homework will be completed on WebAssign.
- WebAssign is an online homework platform. You must purchase access to WebAssign to complete the homework assignments. Follow the setup instructions on WebAssign and use the class key (listed in the Additional Materials of the Course Materials) to enroll in this course.
- During each class period, you will complete a short worksheet covering the topics from the assigned lectures. If you are absent, you do not need to make up the worksheet.
- No late work is accepted. Due date extensions may be granted for extenuating circumstances.

Exams

- There will be 3 exams throughout the course and a cumulative final exam at the end. The exam dates are posted on the tentative weekly schedule.
- A formula sheet is provided for all exams.
- If you must miss an exam, contact the instructor as soon as possible to determine if a make-up exam is possible.

Labs

- Labs will be completed each week unless we are taking an exam.
- Labs will be done in groups of 2-3 students. Your lab group will collect and analyze data together, but each person must turn in an individual lab report packet.
- Lab reports are due one week after the lab is completed, unless we are taking an exam.
- If you miss a lab, you must make it up another week. Occasionally, students are able to collect data for two labs in one evening. Otherwise, there will be an opportunity to complete make-up labs on Dec. 1 during class.
- One lab will be completed entirely on your own and require a typed, formal lab report. The instructions and grading rubric will be given after the 3rd exam. This lab will be graded as an exam.

AI Policy

For this course, YOU must be the author of all coursework. You may use AI in some minor or non-substantive ways. The use of generative AI tools (such as ChatGPT) is permitted in this course for:

- brainstorming and refining your ideas
- drafting an outline to organize your thoughts
- checking grammar, style, and formatting.

The use of AI tools is not permitted in this course for:

- writing a draft of an assignment
- writing entire sentences, paragraphs, or papers to complete class assignments
- working out solutions to math problems.

Your use of AI tools must be properly documented and cited to stay within college policies on academic honesty. Any assignment that is found to have used generative AI in unauthorized ways will be reported for academic misconduct. If in doubt about permitted usage, please ask for clarification.

Testing Your Faith Act Policy

Edison State Community College is committed to providing an environment respectful of students' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, https://www.edisonohio.edu/services-support/registration-records, located in "Forms" and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at https://www.edisonohio.edu/services-support/student-resources.

Subject to Change

The instructor may alter any part of this syllabus at any time. Any changes will be posted to Blackboard.

Tentative Schedule

Class	Lecture Topic Due	Homework Due	Lab Due
Aug 25	Chapter 1 (done in class)	Worksheet 1 (5 pts)	-
Sep 1	Chapter 2	Worksheet 2 (5 pts) WebAssign Homework 1 (30 – 50 pts)	Measurements (10 pts)
Sep 8	Chapter 3, 6.2	Worksheet 3 (5 pts) WebAssign Homework 2 (30 – 50 pts)	Free Fall (10 pts)
Sep 15	**Exam 1 - Chapters 1, 2, 3, 6.2 in class** (about 80 pts)	-	-
Sep 22	Chapter 4, 5, 9.1	Worksheet 5 (5 pts) WebAssign Homework 4 (30 – 50 pts)	Projectile Motion (10 pts)
Sep 29	Chapter 4, 5	Worksheet 6 (5 pts) WebAssign Homework 5 (30 – 50 pts)	Force Table (10 pts)
Oct 6	Chapter 5.3, 6	Worksheet 7 (5 pts) WebAssign Homework 6 (30 – 50 pts)	Inclined Acceleration (10 pts)
Oct 13	**Exam 2 - Chapters 4, 5, 6 in class** (about 80 pts)	-	-
Oct 20	Chapter 9, 10	Worksheet 9 (5 pts) WebAssign Homework 8 (30 – 50 pts)	Friction (10 pts)
Oct 27	Chapter 8	Worksheet 10 (5 pts) WebAssign Homework 9 (30 – 50 pts)	Centripetal Force (10 pts)
Nov 3	Chapter 7	Worksheet 11 (5 pts) WebAssign Homework 10 (30 – 50 pts)	Torque (10 pts)
Nov 10	**Exam 3 - Chapters 7, 8, 9, 10 in class** (about 80 pts)	-	-
Nov 17	Chapter 15	Worksheet 13 (5 pts) WebAssign Homework 12 (30 – 50 pts)	Springs (10 pts)
Nov 24	Chapter 13, 14	Worksheet 14 (5 pts) WebAssign Homework 13 (30 – 50 pts)	Ballistic Pendulum/ Conservation Laws (10 pts)
Dec 1	Chapter 11, 12 (done in class)	Worksheet 15 (30 pts) WebAssign Homework 14 (30 – 50 pts)	Calorimetry (10 pts)
Dec 8	**Cumulative Final Exam** (about 100 pts)		Formal Lab Report (20 pts), Make-up Labs