

Eastern Oregon University Course Syllabus

Number of Course:

PHYS 202

Name of Course:

General Physics w/Algebra

Catalog Description:

An introductory college physics sequence for those whose majors are not in the physical sciences or engineering, which includes the principles of mechanics, waves, sound, thermodynamics, electricity, magnetism, optics, relativity, and quantum theory.

Credit Hours:

4

Required Texts or Suggested Materials:

Link to the EOU Bookstore: [Eastern Oregon University Bookstore \(opens in new tab\)](#)

Prerequisites:

MATH 111, 112, or equivalent. Co-requisite: Phys 201L

Learning Outcomes:

The student should cement their ability to do the following:

- Outcome L1: To develop a basic understanding of nonlinear motion, heat, and sound.
- Outcome L2: To design experiments to test their understanding and their ramifications.
- Outcome L3: To apply these abilities and knowledge to model natural phenomena.
- Outcome L4: To develop an ability to make appropriate use of scientific skills, tools, and resources, especially those involving simulation of said phenomena.

Course Requirements:

- Attendance Policy:
 - Because of the nature of the course, students are strongly discouraged from missing class for any reason.
 - Examinations and Quizzes will be taken from lecture material which, while very similar to the textbook, has enrichment material added.
 - Prior notification is required for excused absences. Extreme circumstances are required in order to be excused from a scheduled examination, and furthermore, arrangements must be worked out with the instructor (not the chair, secretary, etc.) prior to the examination time.
 - There is up to a 2% penalty poor attendance.
 - Similarly, there is up to a 2% extra credit for students with a very strong attendance record.

Grading Policies:

Performance on regular lecture examinations, laboratory assignments and examinations, homework and problem assignments, and a comprehensive final exam are used to determine the grade for the course.

Scoring (Tentative)

- Lab: 20%
- Homework: 25%
- Midterms (3): 30%
- Final Exam: 25%
- Total: 100%

Grading Scale:

(+/- grades will be used)

Letter Grade	Percentage
A	90%
B	75%
C	65%
D	55%

Means of Assessment:

Students will be assessed using the following methods:

- Outcomes L1, G1, G2, G3: Examinations, Quizzes, and Homework are used to determine students' fundamental understanding of physical law.
- Outcomes L2, L3, G2: Formal laboratory experiments are performed by the students.
- Accompanying laboratory reports are required.
- Outcome L4: Construction of laboratory experiments and analysis of laboratory data involve
- Extensive use of scientific skills, tools, and resources used by physicists, including computer simulation.

Brief Outline of Course:

- Linear Momentum
- Circular and Rotational Motion
- Gravity
- Solids and Fluids
- Temperature and Heat
- Oscillations and Waves

General Education Category and Outcomes:

Students receive GENERAL EDUCATION CORE (GEC) – Natural, Mathematical, and Information Science Category credit for successful completion of this course with a grade of C- or better. Each Eastern Oregon University GEC course is multi-faceted and accomplishes many of the GEC outcomes. However, the following are those GEC outcomes which are primarily emphasized in this course. The student should cement their ability to do the following:

- Outcome G1: (Content Knowledge)
 - Learn and use the vocabulary, content, and conceptual knowledge in a variety of disciplines.
- Outcome G2: (Inquiry)
 - Employ approaches to inquiry from a variety of disciplines.
- Outcome G3: (Critical Thinking)
 - Think clearly, critically, and effectively, taking into consideration purpose, audience, and occasion.
- Outcome G4: (Problem Solving & Analytical Thinking)

- Use scientific, mathematical, or computer information systems for problem solving.

University Writing Requirement Outcomes:

NA

Writing Center Statement:

The EOU Writing Center provides a place — physical or virtual — where every EOU student can find an interested, responsive reader. Writing tutorials are free of charge for EOU undergraduate and graduate students and are available for writing at any course level and for writing resumes, job letters, and graduate applications. For drop-in hours or to schedule in-person, synchronous online, or asynchronous online tutoring, please visit the EOU Writing Center: [Writing Center – Eastern Oregon University \(opens in new tab\)](#).

Classroom Decorum:

NA

Academic Misconduct Policy:

Eastern Oregon University places a high value upon the integrity of its student scholars. Any student found responsible for an act of academic misconduct (including but not limited to cheating, unauthorized collaboration, fabrication, facilitation, plagiarism or tampering) may be subject to having his or her grade reduced in the course in question, being placed on probation or suspended from the University, or a combination of these.

Accommodations/Students with Disabilities Policy:

Any student who feels they may need accommodation for any type of disability must contact the Disability Services Office in Loso Hall, Room 233. Phone: 541-962-3081.

Disclaimer:

This standard syllabus provides only general information on the course. For those enrolled in the course a detailed syllabus will be provided by the Instructor at the beginning of the term. Please keep in mind that not all courses are offered every year.

Syllabus Prepared By:**Date:**

2018