

University of North Alabama

course

PH 252

title

Technical Physics II

credit

Five semester hours

Textbook

Physics for Scientists and Engineers by Serway & Beichner

Course
Description

A continuation of Physics 251, covering electricity, magnetism, optics, and topics in modern physics.

Course
Goals

This course is designed for students in science and engineering disciplines that require a calculus-based course in physics. The course attempts to present a unified view of physics and to teach scientific problem-solving using physical principles. Students enrolled for the lecture must also be enrolled for the concurrent laboratory.

Course
Topics

Core topics covered in the course include: electric fields and potentials, electric circuits, magnetic fields, magnetic induction, electromagnetic waves and light. As time allows, additional topics may include geometric optics, physical optics, and topics not covered during the first semester course.

Course
Grading

Performance in the course may be evaluated by several means, including homework and laboratory work. However, the primary means of evaluation is by in-class exams.