

# PH 213 : GENERAL PHYSICS III

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## Transcript title

General Physics III

## Credits

5

## Grade mode

Standard letter grades

## Contact hours total

70

## Lecture hours

40

## Lab hours

30

## Recommended preparation

[MTH 253](#) and [PH 212](#). Recommended to be taken with

## Description

Studies periodic behavior and topics from modern physics. Builds on concepts from previous terms and considers the physics of periodic motion, mechanical waves, wave interference, standing waves, acoustic waves, electromagnetic waves, geometric optics, diffractions and topics from special relativity to quantum mechanics. At all stages, applications of calculus to the solving of problems will be explored. Lab includes basic optical experiences along with a long-term project to affirm student abilities to integrate investigative lab concepts from previous terms. Required for engineering students and most students planning programs in the physical sciences. Should be taken in sequence.

## Learning outcomes

See outcomes and topics for PH 203.

## General education/Related instruction lists

- Science Lab