

# PHYS 360 : Mathematical Methods and Physics

Applies mathematical techniques to the study of physical systems. Examines topics such as vector analysis, complex variables, Fourier series and boundary value problems. These topics are studied in the context of modeling and understanding physical systems. Students will see how individual techniques, once developed, can be applied to very broad classes of problems. This course develops skills in communicating scientific results in written form as well as in an oral presentation.

**Credits** 3

**Prerequisites**

MATH 320: Differential Equations

**Corequisites**

MATH 350: Multivariate Calculus

**Attributes**

Analytical Reasoning

Cross listed

Required for the major

Natural Sciences Division

Pre-req

Research Component

Upper-Level

**Cross Listed**

MATH 360