

# PHYS 241 : Mathematical Methods in the Physical Sciences

This course is primarily intended for students with one year of calculus who want to develop, in a short time, a basic competence in each of the many areas of mathematics needed in junior to senior courses in physics and chemistry. Thus, it is intended to be accessible to sophomores (or freshmen with AP calculus from high school). Topics include ordinary and partial differential equations, vector analysis, Fourier series, complex numbers, eigenvalue problems, and orthogonal functions. (This course may be taken for credit as

[MATH 241](#)

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**Credits** 3.0

**Prerequisites**

MATH 201, 202 or permission of the Instructor.