

# MATH 130: Elementary Calculus II, part 2

This course is a continuation of MATH 127 and is focused on multivariable and vector calculus. It covers calculus of curves in space, vector functions, functions of more than one variable, and introduces vector calculus. Applications of this more general descriptions of calculus to scientific research will also be presented.

This is the second part of a two-part course. The completion of the first part (MATH 129) is required before taking the second part. Registration is required separately for each part of the course.

## Learning Objectives

- Understand how to describe curves in space and apply calculus parametric functions
- Understand functions of more than one variable, partial derivatives and multiple integrals
- Become acquainted with vector calculus

**Credits:** 2

**Class Type:** Graduate Course

**Prerequisites:**

MATH 129

The above course(s) or permission from the instructor.

**Program:** Bioinformatics and Data Science