

MATH 128: Elementary Calculus I, part 2

This is a first course in calculus and is aimed at students of diverse backgrounds who have previously not taken any formal course on the subject. The course includes a brief review of pre-calculus topics, including functions and algebra, and then moves on to computations using infinity and beyond: infinitesimal quantities, differentials, infinite sequences, and whether it is possible to divide by zero. Scientific applications and achievements will motivate the exploration of the essential single-variable calculus concepts of limits, derivatives, and integrals.

This is the second part of a two-part course. The completion of the first part (MATH 127) is required before taking the second part. Registration is required separately for each part of the course.

Learning Objectives

- Understand the concept of functions, their limits, and continuity
- Become familiar with differentiation and integration techniques of single-variable functions
- Introduce applications of calculus to scientific research

Credits: 2

Class Type: Graduate Course

Prerequisites:

MATH 127

The above course(s) or permission from the instructor. A pre-calculus course (including online) is recommended, but not required. Knowledge of trigonometry, basic algebra, and graphing is required.

Program: Bioinformatics and Data Science