Course 114, Introduction to Infinitesimal Calculus

# Instructor Information

**Instructor: Dr. Eliza Grant**

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Office Hours: Tuesday and Thursday 13:00 - 14:30, Friday 09:00 - 10:00

# Course Information

## Description

Infinitesimal calculus is a field of mathematics that examines continuous change — focusing on rates of change, the behavior of curves, and the calculation of areas and volumes. This subject plays an essential role in physics, computer science, engineering, and business analytics.  
  
In this course, students will learn the core principles of infinitesimal calculus. We will begin by studying limits and their applications. Later, the course will delve into the fundamental techniques of differentiation and integration.

## Course Outline

## Grading

The following table illustrates how your final grade is calculated.

## Expectations and Objectives

Attendance is mandatory for every class session.

Late assignments will not be graded under any circumstances.

## Prerequisites

1. Intermediate Algebra
2. Trigonometric Functions
3. Foundations of Pre-calculus

# Course Materials

## Required Manual

\*Introduction to Calculus\*, 3rd Edition, by Eliza Grant

## Required Materials

* Notebook or binder
* Mechanical pencils and erasers
* Ruler
* Graph paper
* Graphing calculator

## Academic Integrity

If, during the completion of an assignment or a supervised exam, you are found to have engaged in cheating, data falsification, or plagiarism of another person's work, appropriate academic penalties will be applied in accordance with institutional policy.