



MONROE COUNTY  
COMMUNITY COLLEGE

# Course Outcome Summary

**Standard Course**

**MATH 171 Calculus I**

## Course Information

<b>Division</b>	Science Mathematics
<b>Contact Hours</b>	60
<b>Total Credits</b>	4

## Prerequisites

A grade of C or better in MATH 159 or MATH 164 within the last three years is highly recommended, or qualifying scores on accepted placement tests.

## Course Description

An introductory course in the study of single variable calculus covering both differentiation and integration. The types of functions covered include both algebraic and transcendental. Students will be expected to demonstrate the ability to work with mathematics numerically, graphically, analytically and verbally. The purpose of the course is to study analysis of single variable functions primarily through differentiation and integration.

## Course Outcomes

In order to evidence success in this course, students will be able to:

1. Evaluate limits graphically, numerically, and analytically.
2. Find the derivative of a function.
3. Use derivatives to solve applied problems including related rates, extrema, and optimization.
4. Find the indefinite integral of a function.
5. Use definite integrals to find the area under a curve.

Updated: January 2023  
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