

MATH 181 Calculus I

Wintermester 2019

Number of Credits

4

Instructor

Charles Amponsah

Catalog Description

Fundamental concepts of analytic geometry and calculus; functions, graphs, limits, derivatives and integrals. (This course satisfies the University Core Mathematics requirement.)

Prerequisite(s): MATH 127 or MATH 128 with a "C-" or better or an ACT score of 28 or an SAT score of 630 or a revised SAT score of 650.

Required Textbooks/Materials

The following texts are required material in this course:

Calculus 8th Edition Early Transcendentals, James Stewart.

Student Learning Outcomes

Upon successfully completing this course, students will be able to

- demonstrate an understanding of concepts and terminology of limits through applications and examples;
- compute the derivative of a function using the definition, rules of differentiation, slopes of tangent lines, and describe it as a rate of change in number of natural and physical phenomena; and
- compute basic integrals using Riemann sums as well as the Fundamental Theorem of Calculus.

Grade Breakdown

The point distribution for the course is (subject to change):

Assignment	Percentage
Homework	15
Quiz	15
Midterm	50
Final	20
<i>Total</i>	<i>100</i>

The percentage distribution for the course is:

Letter	Percentage
A	90–100
B	80–89
C	70–79
D	60–69
F	0–59.9