

MATH 1571 - Calculus 1

Fall 2026 Syllabus, Section A02, CRN 44269,

Credit hours: 4

Instructor

Jamal Tartir

Email: jktartir@ysu.edu

Public Instructor Information

Instructor Title: Professor

Instructor Professional Qualifications:

Doctor of Philosophy in Mathematics, Ohio University

Master of Arts in Mathematics, Miami University

Bachelor of Arts in Mathematics and Management with a concentration in Finance, Hiram College

Instructor Office Location: Cafaro Hall 516

Instructor Office Phone: 330-941-1812

Course Description

1571. Calculus 1. This course is an introduction to calculus. The main concepts to be studied are limits, continuity, rates of change, derivatives, integrals and applications. Prereq.: At least Level 70 on the YSU Mathematics Placement Test or C or better in either MATH 1510 and MATH 1511, MATH 1510C and MATH 1511C, or MATH 1513. 4 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Calculus	James Stewart	978-1-285-74062-1

Course Notes. See Blackboard page.

Course Videos. See Blackboard page.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Note Chapters 1 -- 12.	Algebra, Trigonometry, Linear Functions, and Quadratic Functions	Study the notes along with the videos (if any) from the chapter. Read the corresponding/related material in the textbook. Work the assigned exercises in the textbook. Complete the graded assignment for the chapter.
8/31	Note Chapters 13 -- 20.	Polynomials, Rational Functions, Limits, and Continuity	Study the notes along with the videos (if any) from the chapter. Read the corresponding/related material in the textbook. Work the assigned exercises in the textbook. Complete the graded assignment for the chapter.

9/7	Note Chapters 21 -- 25.	Asymptotes, Trigonometric Functions, and Derivatives	Study the notes along with the videos (if any) from the chapter. Read the corresponding/related material in the textbook. Work the assigned exercises in the textbook. Complete the graded assignment for the chapter.
9/14	Note Chapters 26 -- 32.	Derivative Theorems and Applications	Study the notes along with the videos (if any) from the chapter. Read the corresponding/related material in the textbook. Work the assigned exercises in the textbook. Complete the graded assignment for the chapter.
9/21	Note Chapters 33 -- 38.	Graphing, Related Rates, Optimization, Approximation, and the Mean Value Theorem	Study the notes along with the videos (if any) from the chapter. Read the corresponding/related material in the textbook. Work the assigned exercises in the textbook. Complete the graded assignment for the chapter.
9/28	Note Chapters 39 -- 44.	Integration	Study the notes along with the videos (if any) from the chapter. Read the corresponding/related material in the textbook. Work the assigned exercises in the textbook. Complete the graded assignment for the chapter.
10/5	Note Chapters 45 -- 49.	Applications of Integration	Study the notes along with the videos (if any) from the chapter. Read the corresponding/related material in the textbook. Work the assigned exercises in the textbook. Complete the graded assignment for the chapter.

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.