

MATH 1571H - Honors Calculus 1

Fall 2026 Syllabus, Section 02, CRN 41493,

Credit hours: 4

Instructor

Sepideh Khavari

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Public Instructor Information

Instructor Title: Senior Lecturer

Instructor Professional Qualifications:

Master's, Mathematics, Youngstown State University

Bachelor's, Mathematics, Youngstown State University

Bachelor's, Economics, Youngstown State University

Instructor Office Location: Cafaro Hall, room 606

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Course Description

1571H. Honors Calculus 1. A sequence of integrated courses in analytic geometry and calculus. A detailed study of limits, derivatives, and integrals of functions of one and several variables with applications. Prereq.: At least Level 70 on the YSU Mathematics Placement Test or C or better in both MATH 1510 and MATH 1511 or C or better in both MATH 1510C and MATH 1511C or C or better in MATH 1513. 4 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Calculus	James Stewart	

You need to buy Cengage Unlimited and will have access to the homework system (WebAssign). Through WebAssign, you will have access to an electronic copy of the textbook.

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	Functions and Limits: 1.1-1.4		Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
8/31	Functions and Limits: 1.4-1.6		Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz

9/7	Functions and Limits: 1.6-1.7	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
9/14	Functions and Limits: 1.8 Derivatives: 2.1	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
9/21	Derivatives: 2.1-2.2	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
9/28	Derivatives: 2.3-2.6	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
10/5	Derivatives: 2.6-2.9	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
10/12	Application of Differentiation: 3.1-3.2	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
10/19	Application of Differentiation: 3.2-3.5	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
10/26	Application of Differentiation: 3.5-3.7	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
11/2	Application of Differentiation: 3.9 Integrals: 4.1-4.3	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
11/9	Integrals: 4.3-4.4	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
11/16	Integrals: 4.4 Application of Integration: 5.1	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz

11/23	Application of Integration: 5.2-5.3	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
11/30	Application of Integration: 5.3-5.5	Study the notes along with the corresponding/related material in the textbook. Work the assigned exercises in the textbook/notes. Weekly Quiz
12/7	Final Exam Week	

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.