

Textbook: *OpenStax Calculus 1* E. Hermin and G. Strang. TI-83 or 84 Spring 2026

Before class begins, study Ch 1 Functions and read 2.1 Preview of Calculus

DATE	TEXT	TOPIC
1/20	2.1,2.2	Preview, Limits
1/22	2.3	Finding Limits
1/27	2.4	Continuity
1/29	3.1	Derivative
2/3	3.2	Derivative, as Function
2/5	3.3	Rules of Differentiation
2/10	3.4	Rates of Change
2/12	3.5	Deriv, Trig Functions
2/17	3.6	Chain Rule
2/19	***	*** TEST 1 ***
2/24	3.8	Implicit Differentiation
2/26	3.9	Deriv Exponential & Logarithmic
3/3	4.1	Related Rates
3/5	4.1	Related Rates
3/10	4.2	Differential
3/12	4.3	Max/Min Values
3/24	4.4	Mean Value Theorem (MVT)
*W 3/26	4.5	Derivatives & Graphs
3/31	4.3, 4.4	Max/Min, MVT
4/2	***	*** TEST 2 ***
4/7	4.5	Derivatives & Graphs
4/9	4.6	Limits at Infinity & Asymptotes
4/14	4.7	Optimization
4/16	4.8	l'Hospital's Rule
4/21	4.1	Antiderivatives
4/23	5.1	Area
4/28	5.2	Definite Integral
4/30	5.3	Fundamental Theorem of Calculus (FTC)
5/5	5.1 - 5.3	Area, Definite Int, FTC
5/7		*** FINAL EXAM ***
3/26 Last day to Withdraw with W; 3/17, 3/19 Spring Break		

FINAL GRADE = 2/3 Class Ave. + 1/3 Final Exam

Class Ave: Mean of Test 1, Test 2, and the Quiz Average.

Tests: **NO MAKEUPS.** There will be two tests. The topics covered on each test will include the topics covered since the last test. If a test is not taken, the grade for that test is 0, and a research project is required to replace the test. The topic of the project will be chosen from among several that relate to the material covered.

Quizzes: **NO MAKEUPS** There will be 6 to 9 quizzes, on Thursdays. If a quiz is not taken, the grade for that quiz is 0 and will impact your grade if you have not taken at least 5 quizzes. The best 5 quizzes will be used for the Quiz Average, which is equivalent to a test in your Class Average. Quizzes will cover material since the last quiz or test.

FINAL: Comprehensive; **Date: May 7** If WCC is closed on May 7, then the Final Exam will be on May 12.

ATTENDANCE: Absence from class will not affect final grade, except as it effects quiz and test grades.

ASSIGNMENTS: All odd problems unless otherwise noted. **W ### LAST DAY TO WITHDRAW with a W (3/26) ###**
See last page.

This syllabus may be changed (updated) during the course of the semester.

SLO/Objectives - Upon successful completion, the student will be able to:	This outcome will be measured by one or more of the following instruments (exercises, tools, observations):
SLO1: The student will be able to evaluate finite and infinite limits, one-sided limits, and determine whether a function is continuous.	quizzes, tests, exams, homework, and class presentations.
SLO 2: The student will be able to apply the definition of the derivative to basic functions and determine the equation of a line tangent to a curve at a point on the curve.	quizzes, tests, exams, homework, and class presentations.
SLO3: The student will be able to differentiate polynomials, rational, trigonometric, exponential and other transcendental functions using Product and Quotient Rules.	quizzes, tests, exams, homework, and class presentations.
SLO4: The student will be able to utilize the Chain Rule in differentiating composite functions, the performance of implicit differentiation, and in related rate application problems.	quizzes, tests, exams, homework, and class presentations.
SLO5: The student will be able to find extrema and analyze curves using 1st and 2nd derivative tests, concavity, and in applied optimization problems.	quizzes, tests, exams, homework, and class presentations.
SLO6: The student will be able to evaluate basic antiderivatives and definite integrals to find areas using the Fundamental Theorem of Calculus.	quizzes, tests, exams, homework, and class presentations.

Student Learning Objectives

The SUNY General Education (GE) Mathematics requirement are addressed by the objectives above. Upon successful completion, students will demonstrate the ability to:

SUNY GE 1: Interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics SLO 1, 2, 4, 5, 6
 SUNY GE 2: Represent mathematical information symbolically, visually, numerically and verbally SLO 1, 2, 3, 4, 5, 6
 SUNY GE 3: Employ quantitative methods such as, arithmetic, algebra, geometry, or statistics to solve problems SLO 1, 2, 3, 4, 5, 6
 SUNY GE 4: Estimate and check mathematical results for reasonableness SLO 1, 2, 4, 6
 SUNY GE 5: Recognize the limits of mathematical and statistical methods SLO 1, 2, 4, 6

Student Contributions

Students are expected to attend every class meeting, arriving on time.
 Cell phones and/or other communication devices should be turned off for the duration of each class meeting.
 Assignments are to be completed on time.
 Students are expected to take all tests and quizzes as scheduled. There are no exemptions for any exams.
 Students should expect to spend a minimum of 2 hours per week outside of class for every hour spent in class.
 Students should comply with the [WCC Student Code of Conduct](#), including: 1) respect for all, 2) no cheating.

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Students with Disabilities & ADA

Westchester Community College (WCC) is committed to creating a learning environment that meets the needs of its diverse student body. If a student has a documented disability, it is the student's responsibility to self-identify by signing up through the Disability Services Office (DSO) either online or in person. Once signed up for accommodations, the student must inform the professor via a Referral to Faculty notification provided by the DSO. A Testing Accommodations Request form must be completed online or in person no later than three business days before the quiz/exam date to allow for accommodations to be arranged with the DSO.

The DSO is located in room G-51 on the ground floor of the Library in the back of the Academic Support Center. For more information regarding accommodations offered at WCC you may visit the Disability Services Office Website at <https://www.sunywcc.edu/disabilityservices>.

All students must read and sign the below statement regarding requirements for withdrawing from class after the official college Final Withdrawal Date.

I understand that the final date to withdraw from this class is Tuesday, March 26, 2026.

If I need to withdraw after that date, I will have the WCC Health Office send a note to Professor Battaly explaining the medical need to withdraw.

Date

Signature