

Date	Section	Topic
Sep 4	Ch 1	Functions
9	2.1	Preview of Calculus
11	2.2	Limits - concept
16	2.3	Finding Limits
18	2.4	Continuity
23	3.1	Derivative
25	3.2	Derivative as a Function
30	3.3	Rules of Differentiation
Oct 2	***	*** Test # 1 (Ch. 2) ***
7	3.3	Rules of Differentiation
9	3.4	Derivatives: Rates of Change
14	3.5	Derivatives of Trig Functions
16	3.6	Chain Rule
21	3.8	Implicit Differentiation
23	3.9	Derivative of Exponential & Logarithmic Functions
28	4.1	Related Rates
30	4.2	Linear Approximations / Differentials
### W 4	4.3	Maximm / Minimum Values
Nov 6	***	*** Test # 2 (Ch. 3) ***
11	4.3,4.4	Max/Min; Mean Value Theorum (MVT)
13	4.4,4.5	MVT; Derivatives and Graphs
18	4.6	Limits at Infinity & Asymptotes
20	4.7	Optimization
25	4.8	l'Hospital's Rule
27	4.10	Antiderivatives
Dec 2	5.1	Area
4	5.2	Definite Integral
9	5.3	Fundamental Theorum of Calculus (FTC)
11		Applications of Derivative / Integral / Definite Integral / FTC
16		FINAL EXAM (2 hours) [Dec 18 if school is closed on Dec 16]

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

Class Ave: Mean of Tests and Quizzes, Quiz Ave= 1 test.

Tests: Full period (50 minutes), **NO MAKEUPS**. If a test is not taken, the grade for that test is 0.

One test grade may be replaced with a 4 to 5 page paper (See below).

Material covered on test includes material since last exam.

Quizzes: Unannounced, **any WEDNESDAY, NO MAKEUPS** If there are 6 or more quizzes,

2 quizzes will be dropped before the average is computed; if less than 6 quizzes, 1 quiz

dropped. Covers material from previous week. If a quiz is not taken, the grade for that quiz is 0.

FINAL: Comprehensive; **Date: Dec 16** (Note: If WCC is closed on 12/16, then Final Exam on Dec 18)

PAPER: 4-5 pages, typed, double spaced. Subject should be one of the topics covered on the test

to be replaced. For a grade of C, the paper must include 1) a complete description/explanation of the topic with an example and 2) three references. Use citations of the form (author, page) for ALL content new in this course.

For a higher grade, the paper should include such additional information as scientific or social applications, historical development of technique, relationship of the topic to other topics in the course, etc.

Required only if a test is missed. An outline must be submitted prior to writing the paper. See scoring sheet.

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 (Mon 11/4) ### | class is scheduled 11/27 (night before Thanksgiving)

MATH 161: Student Learning Objectives

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.

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.

<https://www.sunywcc.edu/student-services/policies/student-conduct/student-code-conduct/>

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 Monday, November 4, 2019.
If I need to withdraw after that date, I will need to bring a note to Professor Battaly from the WCC Health Office, explaining the medical need to withdraw.

Date

Name