

College of the Canyons, Fall 2025  
 Math 211x *CALCULUS I w/ Support*  
 Lecture Sec 87080 8 Units  
 M, W 8:25 AM – 10:50 AM, Boykin 103  
 T, Th 8:25 PM – 9:45 PM, Mentry 338

*INSTRUCTOR:* Roy W. Erickson, Primary contact: CANVAS *inbox* primary (two days to respond)  
 Secondary Contact: [roy.erickson@canyons.edu](mailto:roy.erickson@canyons.edu) (one week to respond).

*OFFICE HOURS:* (TBA) Probably after class for 30 minutes (further time slots to be determined as needed).

*PRE-REQUISITES:* Math 104 Precalculus

*SUBJECT MATTER (SLO):* Recognize, analyze, and solve problems using elementary derivatives and integrals.

*WEIGHTING:* Comprehensive Final Exam 25%, 4 Tests 55%, Homework/Classwork 15%, Notebooks 5%

*Note: 5 tests are given but the lowest test is dropped. Thus, NO make-up tests are given so plan accordingly.*

*GRADING:* A: 100 – 90.0, B: 89.9 – 80.0, C: 79.9 – 70.0, D: 69.9 – 60.0, F: 59.9 – 0

*TENTATIVE SCHEDULE:* Fall 2025

W	Date	Monday   Tuesday	Wednesday   Thursday
1	25 Aug	Intro - 1.4 The Tangent and Velocity Problems	1.5 The Limit of a Function
2	01 Sep	<b>Labor Day</b>   1.6 Calculating Limits - 1.8 Continuity	2.1 Derivatives & Rates of Change - 2.2 Derivative as Funct'n
3	08 Sep	<b>Test 1</b> - 2.3 Derivative Formulas   2.4 Trig Derivatives	2.5 Chain Rule - 2.6 Implicit Differentiation
4	15 Sep	2.6 Implicit Differentiation	2.7 Applications I - 2.8 Related Rates I
5	22 Sep	2.7 Applications II - 2.8 Related Rates I	2.8 Related Rates II - 2.9 Linear Approx w/ Derivatives II
6	29 Sep	<b>Test 2</b> - 2.9 Lin Approx w/ Derivatives II	3.1 Max/Min Values -- 3.2 Mean Value Theorem
7	06 Oct	3.3 Derivatives and Shape - 3.4 Limits at Infinity	3.5 Summary of Curve Sketching
8	13 Oct	3.7 Optimization I	3.7 Optimization II - 3.8 Newton's Method
9	20 Oct	<b>Test 3</b> -- 3.9 Antiderivatives - 4.1 Areas and Distances	4.2 The Definite Integral
10	27 Oct	4.3 Fundamental Thm of Calculus	4.4 Indefinite Integrals
11	03 Nov	4.5 Substitution	5.1 Areas Between Curves I
12	10 Nov	<b>Test 4</b> -- 5.1 Areas Between Curves II   <b>Veteran's Day</b>	5.2 Volumes
13	17 Nov	5.3 Cylindrical Shells - 5.4 Work I	5.4 Work II - 5.5 Ave Value of Functions
14	24 Nov	6.1 Inverse Functions	6.2 Expntl Functions & Derivatives   <b>Thanksgiving</b>
15	01 Dec	<b>Test 5</b> -- 6.3 Log Functions	6.4 Derivatives of Log Functions
16	08 Dec	<i>Final Exam Review</i>	<b>Comprehensive Final Exam</b>

Last Day (estimated) to: Drop w/ Refund: 08 Sep, Drop w/o 'W': 07 Sep, Drop w/ "W": 15 Nov v.2

*WORKLOAD:* This class will require a major time and effort commitment. Plan on spending at least an hour or two each night studying and working HW problems. This class is 5 units, which means you should be spending a lot more time on it than the typical 3 unit class. **DO NOT FALL BEHIND!** It is very difficult to catch up in math classes as each chapter builds on the previous chapters – stay on top of things. Ask for help (TLC or from my Office Hours) if you are confused about anything. **DO NOT ASSUME YOU WILL FIGURE IT OUT LATER (CRAMMING)!**

*HOMEWORK:* After the lecture of each section consider the HW to be assigned, even if it was not formally announced (ask if in doubt). Work the problems listed in the HW Syllabus. E-mail *a fellow student* should you miss class as I do not always recall the details from class to class (I teach other classes and I work a part-time day job). **Assigned HW is due at the start of Monday's class and, for those sections covered, the Start of a Test!** Late HW is NOT accepted under any circumstances! Each problem will be given a grade of 0 or 1 based primarily on completeness.

*HOMEWORK GUIDELINES:* In order to receive credit for homework, tests and projects your work must follow a specific set of style rules summarized in the handout "Homework Guidelines." These are like the rules in English classes. See [mymathmantra.com](http://mymathmantra.com) → homework for examples. A synopsis follows:

- \* HW must be properly labeled and stapled by the section to be accepted.
- \* Every HW assignment starts on a new page and needs class, title and name along the top.
- \* *Please DO NOT staple multiple sections together.*
- \* No two column layout - use full width of the page.
- \* All work is done on 8.5 x 11.0 white paper or approved engineering pad paper.
- \* Readable: Neatly written and organized layout of your work

My grader and I are *not* obligated to grade any type of work, including exam work, failing to follow these guidelines.

Messy work reflects on your own self-respect as well as your respect towards those who must read it.

**NAMING CONVENTIONS:** All uploaded material to CANVAS, or emailed to me or my grader, follows a naming convention. Example “*Math270-HW2-Goodman-Amy.*” Example, on email use Subject: “*Math270-Extra Credit?*” Failing to follow the convention could result in NO CREDIT to the submission, mostly b/c it is lost.  
 (( [See Working Remotely for examples](#) ))

**DISABILITIES AND GRIEVANCES:** Students with a verified disability who may need reasonable accommodations for this class are encouraged to notify the instructor and contact [disabled students and services](#) as soon as possible. *All information will remain confidential.* I will do my best to accommodate any disability that any student may have. If you have any complaints or grievances about the class or your treatment in it, talk to me first, so that we can work out any issues.

**CHEATING** results in a zero on the element being tested on. If seating allows for it we sit every other seat during the examination period. I reserve the right to rearrange people during the tests. *No restroom breaks!* Three Strikes: 1- “Eyes on your own paper,” 2- I tap your desk (private chat), 3- I take your exam and put a Zero on it. Further cheating warrants a visit to the Dean, the results of which could be expulsion from CoC!

**DISTRACTIONS:** Late students create an unnecessary distraction, so it is your responsibility to your classmates to arrive on time. *Once in class* - stow all devices. You may be asked to leave class if you are texting or using your device in class. *At home* - place your device in the freezer while studying, visiting it 10 minutes at the end of each hour. Turn off your TV, youtube, GF or BF. Turn on aggressive classical/progressive music - it wires the brain for math. Some people study best in the mornings – know your learning style. Avoid heavy foods before class and study time. Drink plenty of water and eat almonds, raisins, yogurt, veggies to combat tiredness. You are what you eat! Go for a walk before class.

**INCOMPLETES:** Incompletes (I) are given only for serious and verifiable reasons. You must also have a current grade of C or greater when requesting one.

**TUTORING:** Group study outside of class is cautiously encouraged (wear a mask – social distance). Tutors are available at [The Learning Center](#).

**DROPPING THE CLASS:** I will drop you if you miss four lectures without notifying me. Dropping after the posted drop date will result in a “W” on your transcript. **Effective July 1, 2012** students have only 3 attempts to pass a class per college. A grade of “D”, “F”, “I”, or “NP” in a class, or a “W” counts as an attempt.

**REQUIRED TEXT:** *Calculus*; by Stewart; 8<sup>th</sup> ed. ISBN: 978-1-285-74062-1 ©2015 Pearson

(( Note: The HW part of each section is almost identical between 7<sup>th</sup> and 8<sup>th</sup> editions of the textbook, and if you search online, you should be able to find really [inexpensive used copies](#) for purchase. Digital copies are available but they may not match your learning style. I for one need paper textbooks so I can place one finger in the current section I’m studying then quickly search up past procedures and then go back and forth as needed.))

**THE NOTEBOOK:** In the last three years of my 10 years of college, I finally figured out what to take my notes in: The Composition Book! ( I prefer college rule.) They really wear well, they are not overly large and the pages are sewn in.

Give it a try! I have returning students coming by and thanking me for the idea. They use them in all their classes, technical or not. Even their professors have commented on them. Trim and tape in the Syllabii, TOC, HW Log, day-to-day notes, handouts (trimmed down), etc. ((See [mymathmantra.com](http://mymathmantra.com) → [Notebooks](#) for examples.))

*Degree information:*

*Recent California Legislation guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”. For more information on the suggested sequence of classes to be taken in order to obtain these degrees in two years, as well as information on when these courses are offered, please visit:*

<https://www.canyons.edu/academics/schools/mathscience/mse/index.php>

*Stress and Mental Health:*

*Often the pressure on students is very strong, involving academic commitments, relationships, outside jobs and family pressure to name a few. You can learn more about the broad range of confidential student services, including counseling and mental health services available on campus by visiting the Student Health & Wellness Center in the Student Services Building (across from the bookstore) or by clicking on*

<https://www.canyons.edu/student-services/health/index.php>. The phone number is **661-362-3259**.

*AAC:*

*Students with disabilities needing accommodation, including those who had an IEP or 504 plan in high school, should make requests to the Academic Accommodation Center in Seco Hall 103: [AAC@canyons.edu](mailto:AAC@canyons.edu); 661-362-3341. Appointments available at Canyon Country Campus on request.*

## Additional Resources

### Canvas

This course can be accessed on the first day of class via Canvas at <https://coc.instructure.com>. Log into Canvas using your CanyonsID single sign-on:

- CanyonsID Username is your COC student email address (Ex: username@my.canyons.edu)
- CanyonsID Password is your COC student email password

Please visit the [Get to Know Your Online Classroom](#) page for help logging into Canvas and for tips on using Canvas and Zoom. [Canvas Chat Support](#) is also available 24/7 for any Canvas related issues.

### Online Education

Check out the [Online Education website](#) for more information on a variety of topics that can help you be a successful online student such as: exam proctoring, learning styles, computer skills, and tips for student success. If this is your first online course, feel free to take our online learning readiness assessment to assess your skills.

### The Learning Center (TLC)

The TLC provides FREE [online tutoring](#) resources to COC students!

### Disabled Students Program & Services (DSPS)

College of the Canyons DSPS provides educational services and access for eligible students with documented disabilities who intend to pursue coursework at COC. A variety of programs and services are available which afford eligible students with disabilities the opportunity to participate fully in all aspects of the college programs and activities through appropriate and reasonable accommodations. For more information on their services visit the [Disabled Students Program & Services website](#).

### Online Counseling

The Counseling Department offers appointments online. You can schedule an appointment by visiting the [Online Counseling website](#). Counselors can help you map out a plan to reach your educational goals as well as advise you on course selection and registration.

### Management of Stress and Mental Health

College of the Canyons cares about your emotional and physical health. Learn more about the broad range of confidential student services, including free counseling and mental health services available during this time by visiting the [Student Health & Wellness Center website](#) or by calling them at: 661-362-3259.

The National Suicide Lifeline number is 1-800-273- 8255 (TALK). Please call it if you or someone you know is having thoughts of suicide or is in severe distress - it could save someone's life.

You can also use the Crisis Text Line: Just text "Courage" to 741741. It's free, available 24/7, and confidential.

### Veterans Resource Center

The College of the Canyons Veterans Resource Center is a department within the Student Services Division at the college, created to help veterans and veteran dependents with applying to College of the Canyons, enrolling in classes, and requesting VA Education or Vocational Benefits. For more information please visit the [Veterans Resource Center website](#), email [veterans@canyons.edu](mailto:veterans@canyons.edu) or phone (661) 362-3469.