Math 1A: Calculus I
Winter 2026, CRN 38439, Section 45
Monday and Wednesday 6:30 pm to 8:45pm
Classroom: MLC Building Room 111

Instructor Information

Instructor:	Andrew Jianyu Yu
Email:	yuandrew@fhda.edu
Office Location:	E37
Office Hours:	Monday & Wednesday 6:15pm – 6:30pm Monday & Wednesday 8:45pm – 9:30pm in MLC Room 111

Course Description

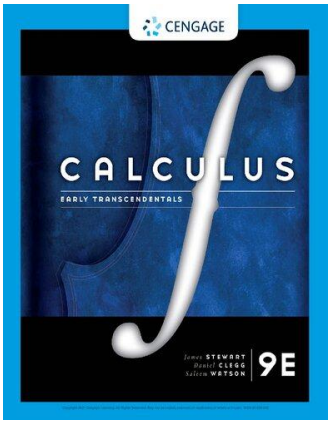
This course covers the fundamentals of differential calculus.

Student Learning Outcomes (SLOs)

1. Analyze and synthesize the concept of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
2. Evaluate the behavior of graphs in the context of limits, continuity and differentiability.
3. Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related reates and numerical approximation.

Prerequisite

MATH 32, MATH 32H, MATH 43 or MATH 43H with a grade of C or better, or appropriate score on Calculus Placement Test within the past calendar year ESL 272 and ESL 273, or ESL 472 and ESL 473, or eligibility for ENGL C1000 or ENGL C1000H or ESL 5



Required Textbook
Calculus: Early Transcendental 9th Edition by James Stewart.
Publisher: Cengage Learning; 9th edition (January 9, 2020); Language: English; Hardcover: 1376 pages; ISBN-10: 1337613924; ISBN-13: 978-1337613927
Item Weight: 5.45 pounds
Dimensions: 8.6 x 1.9 x 10.1 inches
Important Notes: It is not necessary to purchase a hard copy of this book.

Course Content
Chapter 2: Limits and Derivatives
2.1 The Tangent Line and Velocity
2.2: The Limit of a Function
2.3: Calculating Limits Using the Limit Laws
2.4: The Precise Definition of a Limit
2.5: Continuity
2.6: Limits at Infinity; Horizontal Asymptotes
2.7: Derivatives and Rate of Change
2.8: The Derivative as a Function

Chapter 3: Differentiation Rules
3.1 Derivatives of Polynomials and Exponential Functions
3.2: The Product Rule and the Quotient Rules
3.3: Derivatives of Trigonometric Functions
3.4: The Chain Rule
3.5: Implicit Differentiation
3.6: Derivatives of Logarithmic Functions
3.7: Rates of Change in the Natural and Social Sciences
3.8: Exponential Growth and Decay3.9: Related Rates
3.10: Linear Approximations and Differentials
3.11: Hyperbolic Functions

Chapter 4: Applications of Differentiation
4.1: Maximum and Minimum Values
4.2: The Mean Value Theorem
4.3: How Derivatives Affect the Shape of a Graph

4.4: Intermediate Forms and L'Hopital's Rule
4.5: Summary of Curve Sketching
4.6: Graphing with Calculus and Calculators
4.7: Optimization Problems
4.8: Newton's Method
4.9: Antiderivatives

Graphing Calculator

TI-83 Plus TI-84 Plus TI-84 Plus CE TI-Nspire

Graphing calculator is strongly **recommended** for the course. TI-84 Plus or Plus CE is highly recommended. This calculator is widely used in math, science, and engineering courses. You are required to bring a physical calculator to the exam, and sharing calculator is considered as cheating incident. Using the calculator apps on your phone is strictly prohibited on the exam. Do not purchase the TI-Nspire Graphing Calculator (around $150) because it is too advanced for this course. Instructions will not be provided for TI-Nspire.

Technical Requirements

- **Your Email:** Please check your email regularly. If possible, connect your email with an app in your smartphone. You are welcome to ask me any questions related to lecture, homework, or personal emergency through email. **Please following the format of the subject line stated below.**

  "Math 1A 630pm: _____"

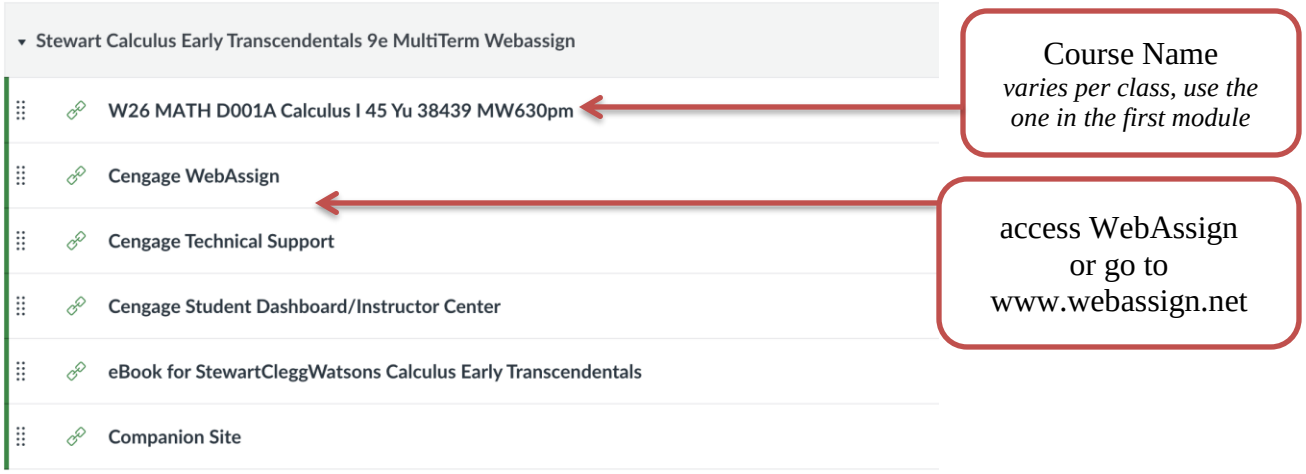
  You write your inquiry after the colon. For example
  Math 1A 630pm: Request Extension for Homework 2
- **WebAssign (Work System):** Homework, quizzes, and exams will be assigned and graded on WebAssign. If an assignment is required to be completed on paper, you are required to scan your work and upload it to Canvas. WebAssign is **not free**. You must pay for your own account before the free trial period ends. Otherwise, you will not be able to complete any assignments until you make a payment. The **first module** on Canvas contains a link to register your WebAssign account and another link to access to WebAssign. Alternatively, you can login

WebAssign on your web browser though the link https://www.webassign.net/.

- **Canvas (Main Learning Management System):** WebAssign has been integrated to Canvas. Each weekly **module** contains the lecture videos and the weekly assignment. The first module has 3 links – the first link for register your WebAssign account, the second link for accessing WebAssign from Canvas, and the third link for Cengage technical support. There are 2 ways to access an assignment. The first way is to click on the assignment on Canvas, it will directs you to WebAssign. The second way is to login WebAssign using the link above. **Scores on WebAssign will automatically synchronize to the grade book on Canvas.**
  You are expected to see at least one homework and one quiz every week.

WebAssign Class Key and WebAssign-Canvas Integration

Use the link in the first module to register your account. Please take the advantage of the free trial and do not pay anything yet. **All purchases are non-refundable.** **There is no class key/code** for this course because WebAssign has been integrated to Canvas. Your instructor is not an employee of WebAssign and Cengage. If you experience any technical difficulty on WebAssign, please contact them to speak to a customer representative.



Click "Cengage Technical Support" to contact a customer representative if you experience any technical or payment issues.

Canvas

There are a few places that you have to visit frequently on Canvas.

- **Modules**
  Each weekly module shows the notes and homework of that week.
- **Grades**
  Scores will be transferred from WebAssign to Canvas. Instructor will update the grade book weekly.
- **Files**
  Notes, books, and syllabus
- **Discussion**
  If we want to have a discussion regarding any topics, we will do this in the Discussion tab.
- **Announcement**
  Emergencies, date change, change of plans

Mandatory Attendance

Attendance is mandatory. Students who missed 3 or more meetings may be dropped from the course *without notice*.

Scanning Your Paperwork for Online Exams

Other than homework, you have to show your work for all online exams and for some online quizzes. Use one of the options below to upload your work to Canvas for credits. For either option below, number the problem and the page. For example, a grader can easily tell the problem number, the content of the problem, and all the steps you wrote to reach to the final answer. If an application problem has long problem statements, or a problem provides a very complicated graph (e.g. three-dimensional image), it is not necessary to copy the problem statements or the graph.

1. If you have a scanner, scan all the pages, save them as **one PDF document**, and upload the file to Canvas.
2. If you do not have a scanner, download the free app called **Genius Scan – PDF Scanner App** (five starts over 938k reviews). Take a picture of each page, use the app to merge all the pictures into **one PDF documents,** and upload the file to Canvas.

NOTE: Points will be deducted if you upload multiple images.

The due date of all the assignment follows the U.S. Pacific Standard Time.

Homework & Discussion, 10% of the Course Grade

Problems will be assigned from each section taught in lecture. You are required to finish most of the homework on WebAssign. For written assignments, you have to scan your work, merge all the images into one PDF document, and submit to Canvas.

For other discussion: topics will be posted on Canvas's "Discussion", follow the directions and write your response. These free-response discussions have no right or wrong answer. To receive full credits, you must reply to one other student's discussion.

Quiz & Pop Quizzes, 20% of the Course Grade

In-person quizzes will be given in during a lecture. Quiz topics will be announced in advanced.

You are expected to complete online quizzes on WebAssign/Canvas. Quiz is an individual assignment. You are required to do your own work. Group-work is strictly prohibited. *For online quizzes, show all your work in a separate piece of paper, take a picture of all the pages (or use a scanner to scan all the pages), merge all the pages into 1 PDF file, submit to Canvas.* For example, "Quiz 1" is an online quiz, and "Quiz 1P" is for submitting your paper work.

To encourage consistent engagement, unannounced pop quizzes may be administered during class. Each quiz will focus on the day's material and must be completed within a strict 10-minute time limit. You may use your notes and a calculator. Please note that these quizzes are time-sensitive, and make-up quizzes are not available.

Late Online Homework and Late Online Quizzes

A limited extension policy is available for managing unexpected circumstances:

- **One (1) extension** for an online homework assignment.
- **One (1) extension** for an online quiz.
- You have 48 hours to request an extension after the due date of an online homework or online quiz.

Requests must be made by emailing your instructor or via the WebAssign platform before the original deadline. Note: All work completed under an extension is considered practice; the scores will not be included in your final grade calculation.

Midterm, 40% of the Course Grade (Two Midterms)

Midterm 1 is schedule in week 4 Wednesday January 28th.

Midterm 2 is schedule in week 8 Wednesday February 25th.

You have the entire class period to take complete the exam.

Final Exam, 30% of the Course Grade

Week #12: Wednesday March 25th; 6:15pm to 8:15pm in MLC 111

You are required to take the exam during the time mentioned below. Exams cannot be extended and cannot be rescheduled. If you are unable to take the exam during these dates and times, please take a different class.

In-person Online Exam Policies	In-person Written Exam Policies
(1) Bring one device only (either a laptop or a tablet) (2) Bring paper to show your work (3) I will either collect your work or ask you to submit your work to Canvas (4) Lockdown browser will be enforced. (5) Each multiple-choice sub-problem has 1 attempt. (6) Each free-response sub-problem has 3 attempts. **Your score on WebAssign is final. Please proceed with caution, as no additional attempts will be granted for any reason. I will not review your work to award partial credit.**	Exam will be typed and printed You will get a physical copy of the exam. Workspace will be provided in the exam.You write your work on the exam paper and turn in your work. This is your one and only opportunity to complete this exam. Once you submit your answers, no additional corrections, late submissions, or changes of any kind will be accepted. Furthermore, the grade issued upon completion is final. You cannot earn additional points by correcting your work after the fact.

You are allowed to carry the following items to the exams:
(1) For midterms, you are allowed to bring 3 sheets (6 pages total, front of back) of notes. The size of the paper is 8.5 inches by 11 inches. The notes can be typed or handwritten.
(2) For the final exam, you are allowed to bring 6 sheets of notes. The other requirements are mentioned in (1).
(3) A physical graphing calculator or a scientific calculator. *Smartphone, tablet, and laptop are not physical calculators.*
(4) For in-person online exams, bring pencils and paper to show all your work, also bring a charger if the battery of your device cannot last for 2.5 hours.
Your instructor does not have spare equipment.

Sharing calculator, tablet, or laptop is strictly prohibited and considered as cheating. All the exams are individual work. Students who cheat, plagiarize or help someone else cheat will be given a zero on the exam, and this zero is irreplaceable, meaning that it will count toward your course grade.

Which online assignment requires you to submit a proof of your work?

Required to submit proofs	Not required to submit proofs
HW1 HW1**P** Quiz2 Quiz2**P** Midterm1 Midterm 1**P**aperwork FinalExam FinalExam**P**aperwork The "**P**" indicates that submitting a proof of your work associated with that assignment is required. *Tips: I showed all the work and formulas to every problem I solved in all of my assignments. When I study, I can easily recall my logics and my work written weeks ago.*	HW1 Quiz2 You do not see HW1P and Quiz2P. Meaning that it is not necessary to submit proofs of your work. *This is a math course. Many problems require you to perform computations in multiple steps. Showing work is an essential step to enhance your learning. Likewise, if I skipped many steps in my lecture, this creates confusions and you will not learn from my lecture notes.*

Check Points:

- Homework & Discussion 10%, Quiz & Pop Quiz 20%, Midterm 40%, Final 30%; Zero credit to all the late and missing work, no exception.
- For all online exams and some online quizzes, you must show all your work on paper and submit your work to Canvas. The score does not count toward your course grade if your work is missing.
- You are expected to check the due dates on your WebAssign account at least once a day to plan accordingly. Also, you are expected to check our Canvas page to see announcements and week module regularly.
- Comparing to homework, you will have at most 3 attempts on exams. Please solve the problems on a separate sheet of paper and double-check your work before submitting your answer to WebAssign. Additional attempts will not be granted for any reasons.

Tutoring at the Student Success Center (SSC)

The Student Success Center (SSC) provides free math tutoring services in-person and online. Please visit the following website for details and schedules.
https://www.deanza.edu/studentsuccess/

Grading Rubrics

Your course grade will be assigned in the following standard:

A: 100% to 93%	A-: 92% to 90%	
B+: 89% to 86%	B: 85% to 83%	B-: 82% to 80%
C+: 79% to 75%	C: 74% to 70%	
D: 69% to 60%	F: below 60%	

All the cut-offs are not negotiable. For examples, 89.8% is not an A-minus and 69.8% is not a C. Transferring to UCs, CSUs, top-ranking universities, or scholarships are not a reason to ask for a higher grade.

Extra Credit Assignment

There are no extra credit assignments in this course to improve your grade. Please do not ask for any.

Classroom Environment & Expectations

To foster a productive and respectful learning environment for everyone, all students are expected to be fully present and engaged during class time. This includes:

- Using electronic devices (laptops, tablets, phones) solely for course-related activities.
- Refraining from side conversations or using headphones while the instructor or other students are speaking.
- Directing your focus to the lecture, discussions, and collaborative work.

Persistent distractions that disrupt the learning process for others cannot be accommodated during instructional time. In such cases, to preserve the educational experience for the class, the ***instructor may ask a student to leave for the remainder of the session.***

Thank you for your cooperation in making our classroom a space conducive to learning and mutual respect.

Academic Integrity

Academic dishonesty will not be tolerated. Any student attempting to defraud the instructor on a quiz, exam, final exam, or any other assessment item designated as an individual assignment will receive a zero on that assignment. This score is irreplaceable. If a cheating incident is detected on your work, the rest of your works in the course will be closely monitored and examined. All the assistant seekers and assistant providers will be reported to the college. *For example, bringing a quiz or an exam problem to a tutor is considered as cheating. Posting a quiz or an exam problem to websites such as Chegg, Course hero, or a forum is considered as cheating.*

Academic Calendar:

January 5: First day of winter quarter
January 18: Last day to add 12-week classes
January 18: Last day to drop classes with a W.
January 19: Martin Luther King Jr. Holiday – no classes, offices closed
February 13 to 16: President's Holiday – no classes, offices closed
Note: January 19 is a Monday. February 16 is a Monday. This class will not meet in these two holidays.

February 27: Last day to drop classes with a W

Important Note: It is student's responsibility to drop or withdraw the class if that student decides not to finish the class. After the last day to withdraw is passed, student cannot withdraw from the class.

March 23 to 27: Final Exam Week
https://www.deanza.edu/calendar/final-exams.html
For the final exam schedule, Google "De Anza College Final Exam Schedule", input the date and time of this class to see the date and time
An academic quarter has 11 weeks of instruction and 1 week of final exam.

For Instructors Only:

Grades must be submitted by Wednesday, April 1st, by midnight

The professor reserves the right to make changes to the syllabus, including project due dates and test dates (excluding the officially scheduled final examination), when unforeseen circumstances occur. These changes will be announced as early as possible so that students can adjust their schedules.

Student Learning Outcome(s):

• Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.
• Evaluate the behavior of graphs in the context of limits, continuity and differentiability.
• Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

Office Hours:

M,W	8:45 PM - 9:30 PM	MLC 111
M,W	6:15 PM - 6:30 PM	MLC 111