

## Math 1A-05-13656 Calculus I (5 units)

Instructor: Christopher Bradley

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Classroom: MLC260

Classtimes: M-TH 10:00AM-12:15PM

Student Hours: By appointment

Office: Room E31a

### Course Format

This is a face-to-face course! This means that coming to class is very important. We will meet in Room MLC260 at the scheduled times, Monday through Thursday. We will spend this time together to build community, to cover course content, to work on group activities, and to engage in classroom discussions.

I hope you actively participate in this course. Math education research literature shows that working together and learning from each other will help you better understand homework problems, minimize test anxiety, and strengthen your problem-solving skills.

There may be some times when you are unable to make it to the class meetings. All the class "lecture notes" will be posted to Canvas (Note: from experience, the lecture notes alone do not translate to a good grade, so it is important to be present in class!). You should make it a point to exchange contact information with a classmate, there could be information discussed in class that does not make it to the posted notes. If you find that these missed days are adding up, please talk to me so that we may assess your situation, together.

### Prerequisites

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

Here are some skills that will help your success in the course (Don't worry, we will refresh these skills!): ● Apply the fundamental principles of algebra to the manipulation of algebraic expressions.

- Use algebraic terms, expressions, and equations to formulate and solve problems.
- Use the concepts, techniques, and skills necessary in the solution of quantitative problems arising in vocations, engineering, science, and other aspects of life.

### **Scope and Objectives**

This course covers the fundamentals of differential calculus.

- Analyze and explore aspects of differential calculus.
- Compute and interpret limits of functions using analytic and other methods, including L'Hospital's Rule.
- Apply the definition of continuity using limits to analyze the behavior of functions.
- Find the derivative of a function as a limit.
- Derive and use the power, quotient, product, and chain rules to differentiate functions, including implicit and parametric functions, and find the equation of a tangent line to a function.
- Graph functions using methods of calculus
- Apply the derivative to solve applications including related rate problems and optimization problems;
- Define the antiderivative and determine antiderivatives of simple functions.

### **Student Learning Outcomes**

- 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.

## Homework Platform

MyOpenMath (required): [www.myopenmath.com](http://www.myopenmath.com). MyOpenMath is the online homework/practice program that you will use to practice concepts learned in class. Make sure to register through canvas (by clicking any assignment and following the steps.), no course number is required. (Free)

## Textbook

We will be using [Calculus I: Differential Calculus](#)

## Participation

This is a critical part of the course, participating in the group work, working with your peers, struggling through the material together. We will be doing activities (worksheets, think-pair-shares, etc.). Yes, you can miss some days because life happens. However, if you find that you are missing too many class meetings, please come talk to me so that we may assess your situation together. Everyone will have to present a solution to at least one problem sometime during the 6 weeks in order to get full credit for participation. Attendance, although I won't be taking attendance every single day, I will be keeping track of who shows up and who doesn't.

## Homework

As stated above, we will be using MyOpenMath as our online homework platform. Our homework is an integral part of our class. I encourage collaboration with other classmates on the homework. Work together, but be careful, your partner won't be able to help you during the exams! There will also be written homework, which will be graded on completeness and clarity. Rather than accepting late homework, I will drop your 3 lowest homework assignments automatically. **No late work will be accepted!** We need to take responsibility with our time management and make sure we complete assignments on time.

## Exams

We will have 3 exams total. They will take place week 2, week 4 and our final will happen on the last day of class. The **tentative dates** for the exams will be 7/9, 7/23 and 8/6 (Final Exam: 10:00AM-12:15PM). More info on the exams will be posted in our canvas course. All 3 exams must be taken in order to pass this course. If you are unable to attend one of the exams please communicate with me to make arrangements for an alternative day/time **in advance**.

## Grading

Homework	20%
Participation	5%
Quizzes	15%
2 Exams	40% (20% each)
Final Exam	20%

## Important Dates

Last day to drop w/ Refund: 7/6/26  
Last day to Drop w/o W: 7/6/26  
Last day to drop w/ W: 7/30/26  
(Our Final Exam is on August 6th, 10:00AM-12:15PM)

## Grade Percentages

Grades in the class are as follows: 90% and up is an A, at least 80% but less than 90% is a B, at least 70% but less than 80% is a C, at least 60% but less than 70% is a D and less than 60% is an F. If you are hovering around the border, getting bumped up will depend on your performance and participation (emphasis on participation) in the class.

A+: 97% and above	B+: 87%-89%	C+: 77%-79%	D+: 67%-69%	F: Less than 60%
A: 93%-96%	B: 83%-86%	C: 70%-76%	D: 63%-66%	
A-: 90%-92%	B-: 80%-82%		D-: 60%-62%	

## Free Tutoring

All Math students can get tutoring at the [Math, Science & Technology Resource Center!](#) It is free, there is drop-in tutoring as well as online and workshops!

## Disabilities Support Services

Students with disabilities needing reasonable accommodations are encouraged to contact DSS early in the quarter. If you think that you may have a learning disability (or physical disability), please contact DSS as soon as possible. More information is available at [Disability Support Services \(deanza.edu\)](#)

## Classroom Conduct

You should not be listening to music during class. You should not be texting during class. Cell phones should be turned off/silent (if you need to leave your phone on for some reason, let me know). You may

not use a cell phone, smart watch or other device capable of texting or connecting to the internet during an exam.

A graphing calculator is recommended for this class, and calculator usage is generally allowed on assignments, with some restrictions. You are not allowed to use calculators that can find derivatives or integrals. No CAS calculators.

Cheating on exams is unacceptable and will result in a grade of 0 on the exam. See the [Student Code of Conduct](#) for further college policies.

All students must comply with the college's [COVID policies and protocols](#).

**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:**