# Math 1B-38455 Calculus II (5 units)

Instructor: Christopher Bradley          Email: bradleychristopher@fhda.edu

Classroom: MLC 270          Classtimes: T/TH 6:30PM-8:45PM

Student Hours:
Tuesday, 11:00AM-1:00PM in room: S55. Thursday and 11:00AM-1:00PM in room S55.

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 MLC 270 at the scheduled times, Tuesday and 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 1A or MATH 1AH 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:
- Differentiation
  - The Chain Rule
  - Product and Quotient Rules
  - Derivatives of Transcendental Functions
- Algebraic Manipulation

- ○ Laws of Exponents and Logarithms
- ○ Polynomial Long Division
- ○ Completing the Square
- ○ Splitting Fractions
- Trigonometry
  - ○ Unit Circle Values
  - ○ Pythagorean Identities
  - ○ Double Angle Formulas
- Limits and Graphing
  - ○ L'Hopital's Rule
  - ○ Visualizing Functions

## Scope and Objectives

This course covers the fundamentals of differential calculus.

- Analyze and explore aspects of integral calculus.

- Analyze and evaluate the definite integral as a limit of a riemann sum and examine its properties.

- Examine theFundamental Theorem of Calculus.

- Find definite, indefinite, and improper integrals using various techniques.

- Apply the definite integral to applications.

- Examine differential equations.

## Student Learning Outcomes

- Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.

- Formulate and use the Fundamental Theorem of Calculus.

- Apply the  definite integral in solving problems in analytical geometry and the sciences.

## Homework Platform

MyOpenMath (required): 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 II: Integral Calculus](#)

## Participation

This is a critical part of the course, participating in the group work, working with your peers, struggling (in a good way) 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 12 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. We will also have entry/exit tickets sprinkled throughout our 12 weeks together.

## 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. There are roughly 4-6 short written assignments scattered throughout the 12 weeks we have together. To help you stay on track with the course pacing, **late work is generally not accepted**. However, I automatically **drop your lowest 3 homework scores** to account for emergencies or busy weeks. We need to take responsibility with our time management and make sure we complete assignments on time.

## Exams

We will have 4 exams total. Three of them will occur during the 12 weeks and the last one, our final will happen on the last day of class. The final exam will be cumulative. The **tentative dates** for the exams will be Jan 29, Feb 19, Mar 12 and Mar 26 (Final Exam: 6:15PM-8:15PM). More info on the exams will be posted in our canvas course. **There will be no makeup exams**. If you miss an exam for any reason, your

percentage on the Final Exam will replace that zero. This replacement policy also applies to your lowest exam score if you attend all exams but score higher on the final. If you miss more than one exam, the second missed exam will be recorded as a zero.

You are allowed 1 page of notes (front and back) for exams. It will be your job to prepare accordingly for each exam.

| Grading | | Important Dates |
|---|---|---|
| Homework | 20% | |
| | | Last day to add: 1/18/26 |
| Participation | 5% | Last day to drop without a W: 1/18/26 |
| | | Martin Luther King Jr. Holiday: 1/19/26 |
| Quizzes | 15% | Presidents' Holiday: 2/13/26 - 2/16/26 |
| | | Last day to drop with a W: 2/27/26 |
| 3 Exams | 40% | Final Exam: 3/26/26 (6:15PM to 8:15PM) |
| Final Exam | 20% | |

## 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 throughout the quarter.

| | | | | |
|---|---|---|---|---|
| A+: 98% and above | B+: 88%-89% | C+: 77%-79% | D+: 67%-69% | F: Less than 60% |
| A: 94%-97% | B: 83%-87% | C: 70%-76% | D: 63%-66% | |
| A-: 90%-93% | 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.

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.](#)

## FAQ

Are we allowed to use notes during the exams? Yes, you are allowed 1 page of notes, front and back. These notes can include theorems, definitions, formulas, and steps to solve certain problems. The main goal of a cheat sheet (at least in my head) is to optimize our strategies. Get rid of what we don't need and lay out what we do need and how to use it.

Will the exams be just like the lectures and the homework? For the most part. What we learn in class will be the foundation, working through the homework problems helps us fine tune our understanding and exposes us to the ins and outs of different variations of the things we learned in class. When writing the exams, I will assume that you went through the notes, completed the assignments and prepared accordingly.

Is coming to class mandatory? Yes, it will count towards your participation.

Are there extra credit opportunities? Yes, there will be EC questions on every exam, as well as on the quizzes.

**Student Learning Outcome(s):**

• Analyze the definite integral from a graphical, numerical, analytical, and verbal approach, using correct notation and mathematical precision.
• Formulate and use the Fundamental Theorem of Calculus.
• Apply the definite integral in solving problems in analytical geometry and the sciences.

**Office Hours:**

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