

Math 10B: Calculus II

Fall 2022

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Office Hours: **M 4-5pm** and **W 4-6pm** in AP&M 6333

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Course Description

Math 10B is a single-variable integral calculus course. Topics covered include the Fundamental Theorem of Calculus, integration techniques, applications of integration, and an introduction to differential equations, sequences, and series. A detailed list of topics covered in the course, together with a tentative lecture schedule, is posted on the course webpage

Textbook

Calculus Volume 1 and *Calculus Volume 2* from OpenStax.

Both volumes are available for free online, and Volume 2 (our main book) is available as a physical book for \$26.80 from the UCSD Bookstore (paperback, black-and-white).

Homework

There will be weekly homework assignments, due on **Fridays at 2pm** Pacific Time. They will be posted on the course webpage, and submitted through Gradescope.

- Collaboration on homework is encouraged. However, you should think about the problems yourself before discussing them with others, and **you must write up your solutions by yourself and understand anything that you hand in.**
- You are welcome to consult books, online resources, etc. when completing the homework, but you must not copy or paraphrase solutions from any source. And for each assignment, you should cite any sources you consulted and acknowledge your collaborators.

Quizzes and Exams

Quizzes: There will be three in-person quizzes held in class on the following dates.

Fri, Oct 14 (Week 3)

Fri, Oct 28 (Week 5)

Fri, Nov 18 (Week 8)

The final exam will be in-person on **Friday, Dec 9**, from **3-6pm**, location TBA.

For quizzes and the final exam:

- A printed formula sheet will be provided.
- Notes, books, calculators, and other electronic devices are not allowed.
- Bring your student ID.

Grading

Grade breakdown: your final numerical grade will be automatically computed as the highest of the following options:

Option 1

- **15%** Homework (drop 1)
- **45%** Quizzes (drop 1)
- **7%** Participation (see below)
- **33%** Final Exam

Option 2

- **15%** Homework (drop 1)
- **45%** Quizzes (drop 1)
- **40%** Final Exam

There are no makeup quizzes or exams, but your lowest quiz score will automatically be dropped; this grading scheme is intended to accommodate emergencies that require missing a quiz. If, due to truly exceptional circumstances, you must miss two quizzes, please contact the course staff as soon as possible.

Participation: you can receive 7% of your course grade for attending at least 7 days of discussion section and completing a brief written assignment each time (quiz/groupwork), which will be graded for completion. The weight will be taken away from the final exam, and if you attend fewer than 7 days, it will be prorated accordingly. (For example, if you attend 6 days of discussion section, you would receive 6% of your grade from participation, and 34% from the final exam.) For logistical reasons, you must attend your assigned discussion time.

Letter grade: your course grade will be determined by your numerical grade at the end of the quarter, and will be based on the following scale. This scale is guaranteed, but may be adjusted to be more generous; for example, if your cumulative average is 80, your final grade will be *at least* B-.

A+	A	A-	B+	B	B-	C+	C	C-
97	93	90	87	83	80	77	73	70

Grading errors: homework and exams will be graded and returned on Gradescope. Regrade requests can be made using the built-in regrade request feature in Gradescope **during a specified 60-hour window of time**; no requests will be accepted afterward. You should submit a separate request for each problem in which you believe an error in grading was made, and explain clearly and politely why you think an error was made. Also, although we will correct errors in grading, we will not modify our grading rubric or negotiate about partial credit.

Miscellany

If you miss class: there is a rough schedule posted on the course webpage of what will be covered in each lecture, together with the corresponding sections of the book. If you need to miss a lecture for any reason, I recommend reading from the book. You are also encouraged to discuss what was covered in the lecture and ask questions of one of your classmates. So be sure to make a friend and get the contact information of a fellow student during the first week of classes!

If disaster strikes: in the event that the public health situation necessitates a return to remote learning (either temporarily or for the remainder of the quarter), I may make changes to the course,

including to the length, format, and number of exams. In making such a decision, I would follow university guidance and the recommendation of the mathematics department. In any event, we will try to give as much advance notice as possible.

Accommodations

Students requesting accommodations for this course due to a disability need to provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD). You should make arrangements in advance to discuss your accommodations with me **no later than the end of Week 2** (feel free to reach out even if you're still waiting for your AFA!). We will make every effort to arrange for whatever accommodations are recommended by the OSD.

Academic Integrity

UC San Diego's Policy on Integrity of Scholarship outlines the academic honesty expected of all students, and details the consequences for academic dishonesty. Your integrity has great value: always cultivate and protect it.

Typo Bounty

If you find an error on the syllabus, website, homework assignments, etc., let me know! You will receive a small prize, redeemable in office hours 😊