Math 21 - Calculus
Department of Mathematics at Stanford University, Fall 2022

Instructor:
- Maddie Weinstein, mweinste@stanford.edu
- Chao Ma, chaoma@stanford.edu

Teaching Assistants:
- Derek Khu, derekkhu@stanford.edu
- Felipe Hernandez, felipehb@stanford.edu
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- Sophia Sanchez, sanchezs@stanford.edu
- Yosheb Getachew, yoshebg@stanford.edu
- Jeremiah Montemayor (ACE), jmontema@stanford.edu

Lectures:
1. MWF 9:30am-10:20am, 380-380X, Chao
2. MWF 10:30am-11:20am, 380-380X, Chao
3. MWF 12:30pm-1:20pm, 380-380X, Maddie
4. MWF 1:30pm-2:20pm, 380-380W, Maddie

Discussion sessions:
5. Tuesday 9:30am-10:20am, Green Earth Sciences 150: Yosheb
6. Tuesday 9:30am-10:20am, 200-219: Sophia
7. Tuesday 10:30am-11:20am, McMurtry Art Building 360: Sophia
8. Tuesday 10:30am-11:20am, Lathrop 296: Suzy
9. Tuesday 11:30am-12:20pm, Lathrop 190: Suzy
10. Tuesday 12:30pm-1:20pm, Econ 139: Yosheb
11. Tuesday 1:30pm-2:20pm, Econ 139: Felipe
12. Tuesday 1:30pm-2:20pm, STLC 119: Derek
13. Tuesday 2:30pm-3:20pm, Lathrop 298: Felipe
14. Tuesday 2:30pm-3:20pm, STLC 119: Derek
Office Hours:

- Chao: MWF 8am-9am, in person at 380-383BB
- Maddie: MF 2:30pm-4:00pm, in person at 380-384C
- Derek: TuF 4:30pm-6:00pm, in person at 380-380J
- Felipe: WTh 1:30pm-3:00pm, in person at 380-384K
- Suzy: MF 3:00pm-4:30pm, online
- Sophia: TuTh 10-11:30, in person at room TBD
- Yosheb: MW 3 pm-4:30 pm in person at 380-381U
- Jeremiah: MTu 4:00pm-5:30pm, online

Textbook: Freely available online: https://openstax.org/details/books/calculus-volume-2. We will cover Chapter 3.7, 5, and 6.

Prerequisites:

- Strong foundation in precalculus, such as comfort with the concept of functions, equations of lines, trig and inverse trig functions, ability to manipulate algebraic expressions, factoring polynomials, etc.

- Be comfortable with the idea of a limit, the idea of the derivative and the integral.

- Be familiar with the material of Math 19 and Math 20. For example, students should know (and know how to apply) the product rule, chain rule, u-substitution and integration-by-parts.

Grading: The final grade will consist of 20% from homework, 40% from two midterms, and 40% from final.

Homework: Homework will be assigned weekly on Wednesday and must be uploaded to GradeScope by 9:00am on the next Wednesday. Late homework will not be accepted. The lowest homework score will be dropped from the computation of your grade.

Midterms: There will be two midterm exams:

1. Midterm 1: Thursday, Oct. 20, 6:00pm-7:30pm

2. Midterm 2: Thursday, Nov. 10, 6:00pm-7:30pm

Midterm 1 will cover the materials in week 1-3. Midterm 2 will cover the materials in week 4-6. One two-sided reference sheet is allowed.

Final: The final exam is planned at Tuesday, Dec. 13, 12:15pm-3:15pm. One two-sided reference sheet is allowed.
Exam conflicts: Check for exam conflicts right away and contact us: Except in case of emergency, you must inform us of exam conflicts at least two weeks prior to the exam, together with a valid reason for the conflict. The allowable reasons are course-related or competition-related schedule.

Regrades: Regrade requests for homework assignments and exams will need to be submitted via gradescope within 72h from the time of releasing the grades. After the regrade submission period ends, your requested solutions will be re-evaluated and the score for these solutions adjusted (up, down, or the score will stay the same).

Honor Code and technology policies: You always must show all work (unless otherwise mentioned), and you may only use methods that were taught to you in this course (or one of its prerequisites). The submitted solutions always need to be your own and need to reflect your understanding of the problem and how to solve it. Finding a solution on the internet or getting it from a classmate, copying it onto your homework or quiz, and then submitting it for credit is a violation of the Stanford Honor Code and will be addressed as such. By Math Department policy, any student found to be in violation of the Honor Code on any assignment or exam in this course will receive a final course letter grade of NP. Note that it is also in violation of copyright (below) to upload any of the course materials to the internet (for example, Chegg, Course Hero, etc).

Tutoring and Extra Help:

- The Additional Calculus for Engineers (ACE) program is a 1 unit (Credit/No Credit) class taken concurrently with the MATH 21 class. It provides additional help with the class for students who want it, and it consists of a weekly 2 hour section. If you are interested in joining the ACE section or would like to know more about ACE, please fill in the form https://docs.google.com/forms/d/e/1FAIpQLSfQ3dx22buJq7J18TwPrn_dRRZiHQxKb22ab6XJm6GXQ4awBQ/viewform. Visit https://engineering.stanford.edu/students-academics/equity-and-inclusion-initiatives/undergraduate-programs/additional-calculus for more information.

General Stanford and Mathematics Department Policies

Students with Documented Disabilities: Students who may need an academic accommodation based on the impact of a disability must initiate the request with the Office of Accessible Education (OAE). Professional staff will evaluate the request with required documentation, recommend reasonable accommodations, and prepare an Accommodation Letter for faculty dated in the current quarter in which the request is being made. Students should contact the OAE as soon as possible since timely notice is needed to coordinate accommodations. The OAE is located at 563 Salvatierra Walk (phone: 723-1066, URL: http://oae.stanford.edu).

Affordability of Course Materials: Stanford University and its instructors are committed to ensuring that all courses are financially accessible to all students. If you are an undergraduate who needs assistance with the cost of course textbooks, supplies, materials and/or fees, you are welcome to approach me directly. If you would prefer not to approach me directly, please note that you can ask the Diversity and First-Gen Office for assistance by completing their questionnaire on course textbooks and supplies: http://tinyurl.com/jpqbarn or by contacting Joseph Brown, the Associate Director of the Diversity and First-Gen Office (jlbrown@stanford.edu; Old Union Room 207). Dr.
Brown is available to connect you with resources and support while ensuring your privacy.

**Covid policies:** Consistent with university policy, face coverings are required in classrooms until further notice. Face coverings may, however, be removed briefly while speaking. As Stanford strongly recommends masking indoors, face coverings should also be worn when attending office hours. Eating is not permitted in classrooms.

Students should attend the in-person lecture and discussion section to which they are officially assigned. This ensures that classrooms do not exceed official room capacity, and supports prompt notification should a specific section need to move online at short notice. Course messages are sent out via Canvas, please ensure that your Canvas notifications are on so that you receive any announcements promptly.

As standard practice, lectures and discussion sections in Mathematics courses are taught in-person. As such, Zoom links will not be provided. Additionally, in-person lectures and discussion sections will not be recorded.

Students who miss class due to illness (including COVID-19) should make arrangements to obtain lecture notes from other students in the class. As standard practice, there are no make-up exams or remote exams. If you will miss an exam due to illness, please reach out to your instructor for more information.

**Copyright:** All course material is copyrighted by the Stanford Mathematics Department. This means that it is forbidden to disseminate the course material to anywhere, including the Internet.