

CALCULUS III: Math 126 C and D - Spring 2024

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Office Hrs: MF 1:30-3 MOR 220/30, W 1:30-3 LOW 019

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Text: The only **required** material is a webassign access code which goes with the textbook, *Calculus*, by James Stewart, 9th Edition. See links on our course website for more details.

Course Objectives: Math 126 covers a collection of somewhat diverse topics: vectors and vector functions, polar coordinates, calculus on vector functions, dot products and cross products, lines and planes, curvature, multi-variable functions, partial derivatives, optimization, tangent planes, double integrals, Taylor polynomials and Taylor series.

Grading: The weight for each part of the course is given below. An example to show you how to compute your grade is also given.

Category	Weight	Your Percentages	Your Scores
Participation (Tues/Thurs)	4	90%	= 3.6
Homework (Tues/Thurs)	12	90%	= 10.8
Midterm 1 (THURS, Apr 25)	24	78%	= 18.72
Midterm 2 (THURS, May 16)	24	90%	= 21.6
Final Exam (SAT, June 1)	36	86%	= 30.96
Total	100		= 85.68

This example student would get a 85.68 out of 100 for the course which is approximately a 3.1 on my estimated grade scale (see the course website). The expected, and departmentally required, median grade for the class is 2.9, so if you want a grade better than 2.9, then you need to score higher than half of your classmates. A grade of 2.0 is needed to move on to other courses that require Math 126. Typically, you need to score above 65% on all your exams to get a grade above 2.0. If you score below 50% in the course, then you will get a grade of 0.0.

Homework: Homework will be administered by Webassign and will be due **Tuesday and Thursday** nights at 11 p.m.

Quiz Sections: You will have quiz sections on Tuesday and Thursday with a teaching assistant (T.A.). The primary goal is to discussion homework, but I also am going to have 'test preps' to start most sessions. Attendance is mandatory for those that want to do well in this course (you are allowed to miss 3 without penalty to your grade).

Test Preps: Test Preps will consist of old exam problems which you will attempt at the start of quiz section. These are essentially review sheets that I have made for you each week, but I am forcing you to look at them at the start of quiz section. You will be graded on participation and attendance only, there will be a "code" (or numerical answer) that you will need to enter on Canvas for credit for the day. You **MUST** be in attendance to get this credit, no exceptions. You can miss up to 3 of these without penalty to your grade. Meaning if you miss 3 or fewer, you will get 100% for participation.

Exams: The midterms will be **50 minutes long** and will be given at your usual quiz section classroom. The Final Exam is cumulative and will be held on Saturday, June 1 from 5:00-7:50pm, location Kane 110, Kane 120, and ARC 147 (I will make a seating chart which will tell you where to go).

Calculators and notes: A Ti-30x IIS Calculator (about \$15 at the bookstore) is the **ONLY** calculator that we allow on the exams! A single, **hand-written** 8.5 x 11 inch sheet of notes is allowed during exams. You may write on both sides.

Make-Ups and Extensions: If you have a prolonged illness or emergency (lasting more than a week), then please contact me. For all other situations, please read the following:

- **Homework:**

- In order to account for any small issues of you forgetting a problem or incorrectly clicking, at the end of the term I add 5% to everyone's final HW percentage (but no one gets a grade above 100%).
- You can also request extensions for past due assignments automatically within Webassign for up to 3 days past the closing date, but there is a 15% penalty on any problems completed in this 3 day window.
- There are NO other extensions for any other reason whatsoever. The expectation is that you complete the vast majority of homework at least two days before it closes.

- **Test Preps:** No make-ups for any reason, instead you are allowed to miss 3 without penalty to your grade.

- **Midterm Exams:** If you miss a midterm exam due to an emergency and if you contact me, then your other exams will be weighted more heavily. Please contact me as soon as possible and provide information on when you expect to be able to return to class.

- **Final:** If you will miss the final exam due to emergency or planned UW event, then you will need to fill out the math department make-up final petition here: math.washington.edu/common-finals

All make-up requests for the final exam must go through this website (that is handled by the department since it is a common final).

Class Philosophy: There are two vital rules for success in my classroom.

1. THE HOMEWORK IS THE KEY: Mathematics is truly learned when **YOU** completely solve a problem yourself AND understand the underlying concepts and tools so as to be able to apply them to related problems. The lecture, tutorial sessions, and office hours are valuable tools in guiding you towards learning and discovery, but ultimately the concepts and solutions must be absorbed, understood, and applied by you alone. Treat each problem as an exam question and ask yourself, "Can I answer this question without any help and do I understand the underlying principles that this problem conveys?" If your answer is no to either of these question (or if you hesitate at all), then you need more studying and practice.

2. ASK FOR HELP: Most students will hit a wall at some point during the course. Some can't handle the large workload, while others find difficulty with specific concepts in the course. When these times arrive remember to ask for help. Come to your T.A., come to me, ask your classmates for help, visit the math study center and/or visit the student counseling center. If you are still stumped send me an email. Please, please, please find help earlier rather than later.

Resources for Students with Disabilities: If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course (if I have already been sent your accommodations, then you can expect an email from me with more info by the end of the first week of the quarter). If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or uwdrs@uw.edu or disability@uw.edu. DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions.

Religious Accommodations: Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at Religious Accommodations Policy. Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form.