

MATH 126-E: CALC. W/ ANALYTIC GEOMETRY III, SPRING 2015

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COURSE DESCRIPTION. This is a third-quarter calculus course, covering a rather diverse range of topics: 3D curves and surfaces, vector calculus, polar coordinates, multi-variable functions, partial derivatives, optimization, double integrals, and Taylor series.

CLASS MEETINGS. Mondays, Wednesdays, and Fridays, 12:30 PM – 1:20 PM, in Anderson Hall room 223.

TEXTBOOK. *Multivariable Calculus* by James Stewart. We're using a version that's been customized for UW, but you may also use Stewart's *Calculus: Early Transcendentals, Seventh Edition*. An online version may be purchased at

<http://www.cengagebrain.com/micro/uwmathcalc>

If you've taken a calculus class at UW before, then you probably already have a WebAssign code and access to the online text. If you'd like a physical copy, though, you might have to buy a new book. Check to see whether the version you have contains chapters 12–15.

GRADES. Your grade in the course will be based on the following:

15% Homework

20% Lower midterm score

30% Higher midterm score

35% Final exam

The class is curved to a median of 3.0.

LECTURES. Lectures are held on Mondays, Wednesdays, and Fridays. You are required to know all the material presented in lecture, but you are not explicitly required to attend, so you don't need to get permission for absences. If you miss class, you should get notes from another student.

HOMEWORK. Calculus is not a spectator sport (despite my petitions to the International Olympic Committee). The best way to improve is by *doing*, not *watching*, so homework is crucial. It's also the most time-consuming part of the course, so plan accordingly.

In general, homework assigned Monday will be due on Thursday evening, and homework assigned Wednesday or Friday will be due on the following Tuesday evening. The first few homework assignments have a slightly longer window.

Homework will be submitted online through WebAssign:

<https://www.webassign.net/washington/login.html>

After a two-week grace period at the start of the quarter, you'll need an access code to use WebAssign. This should come bundled with your textbook.

Many of the problems on WebAssign are too complicated to solve in your head, so you'll want to use scratch paper to work out the answers. Use this time to practice staying organized as you solve problems, so you're ready for the exams.

Late homework will not be accepted, but you may miss a total of 10% of the homework points over the course of the quarter without affecting your final grade.

QUIZ SECTIONS. Quiz sections will be held on Tuesdays and Thursdays. Despite the name, you won't actually be taking quizzes there. Instead, you'll be discussing the material in class (sometimes going over examples I didn't have time to cover) and reviewing homework problems and old exams.

EXAMS. There will be two midterm exams and one final exam.

- Midterm #1: Thursday, April 23rd (during quiz section).
- Midterm #2: Tuesday, May 19th (during quiz section).
- Final Exam: Saturday, June 6th, 5:00–7:50 PM (room TBA).

Exams are cumulative (so be prepared to encounter material from earlier in the quarter). Makeups will not be given. If an unavoidable conflict arises, contact me *immediately*.

You may bring a *single, hand-written*, double-sided 8.5" × 11" sheet of notes to each exam.

You may also use a **scientific calculator!** What constitutes a scientific calculator?

- It knows basic operations, elementary functions, and constants like π and e .
- It doesn't graph curves, solve equations, or compute derivatives or integrals.
- It's a calculator, not a smartphone or tablet.

One such calculator is the TI-30X IIS, which you can find for about \$20 at the bookstore.

OFFICE HOURS. I've got two office hours per week:

Mondays, 2:30 – 4:00 PM
Thursdays, 2:30 – 4:30 PM

These are times when you can drop into my office *without* making an appointment. I'll just be sitting there waiting for people to come by and ask questions, so please attend if you have any questions! If these times don't work for you, send me an email and we can make an appointment for another time.

WEBSITES. Most of this information, along with lecture notes, is also available at the course website:

www.math.washington.edu/~ostroff/courses/2015/math126-spr15/

You'll also find a class discussion board at catalyst.uw.edu, which is a great place to ask questions about material. And for more general information about Math 126, you can use the department's resource page at www.math.washington.edu/~m126/.

OTHER RESOURCES. The Math Study Center (B-014 in the Communications building) is open 9:30 AM–9:30 PM on Monday–Thursday, 9:30 AM–1:30 PM on Friday, and 2:00 PM–6:00 PM on Sunday. Other resources include CLUE and the IC. If you'd like more one-on-one tutoring, the Math Department maintains a list of local private tutors that you can hire at <http://www.math.washington.edu/Undergrad/tutorlists.php>.

ACADEMIC HONESTY. I take cheating very seriously, and will report any instances to the department of Community Standards and Student Conduct, and give zeroes accordingly.

STUDENTS WITH DISABILITIES. The University of Washington is committed to providing access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation, contact the Disability Services Office at least ten days in advance at: 206-543-6450/V, 206-543-6452/TTY, 206-685-7264 (FAX), or dso@u.washington.edu.