

# Advanced Multivariable Calculus I

## Math 324 A Winter 2019

**Instructor:** Josh Southerland

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**Course Website:** [sub.mersion.cc/m324/m324.2019A](http://sub.mersion.cc/m324/m324.2019A)

**Alternatively access the website via:** <http://www.math.washington.edu/~jsouther>

**Office Hours:** TBA

**Office:** Padelford C-552

(specify **Math 324** in all correspondence)

**Text and Webassign:** The text for the course is *Calculus: Early Transcendentals, eighth edition* by Stewart. We will use only chapters 14–16. You may purchase a custom edition of the text at the University Book Store—you'll want the one titled *Multivariable Calculus* by James Stewart. You are not required to purchase a hard copy of the text. *Webassign* access (see next paragraph) includes an electronic copy of the text.

You will need access to *Webassign* to complete homework assignments. If you've not yet purchased a *Webassign* access code for Stewart's *Calculus*, follow the link on the course website to do so.

**Course Objectives:** This course is a continuation of Math 126. The focus is mostly on integration in multiple variables. We discuss double and triple integrals; gradients and directional derivatives; line and surface integrals; and the theorems of Green, Stokes, and Gauss.

**Grading:** Your grade will be made up of:

Homework	10%
Exam I	25%
Exam II	25%
Final Exam	40%

**Homework:** Homework assignments will be assigned and collected via *Webassign*. Homework will generally be due at 11:00pm on Tuesday and Thursday (except possibly for exam weeks—see the course schedule for due dates). No extensions will be given to anyone for any reason. You may miss 10% of the total of homework points available for the quarter without penalty to your grade.

**Exams:** You will be allowed to use a TI-30X IIS scientific calculator and one 8.5×11 sheet of **handwritten** notes for the exams. **No other calculators or electronic devices will be allowed** (e.g. no cell phones, no laptops, no palm pilots, no pagers). You may not share a calculator or a note sheet with another student on an exam.

**Exam Dates:**

Exam I	Friday, February 1	in class
Exam II	Friday, February 22	in class
Final Exam	Tuesday, March 19	in class

**Make-Ups:** No extensions will be granted for homework to anyone for any reason. No exceptions.

Make-up exams will not be given. If you miss an exam due to unavoidable, compelling, and well-documented circumstances (e.g., illness, transportation emergency), your final exam may be weighted more heavily. **Contact Josh immediately if one of these circumstances arises.**

**Resources for 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, or [dso@uw.edu](mailto:dso@uw.edu).