

**Math 324**  
**Advanced Multivariable Calculus**  
FALL 2015

**Instructor:** Karthik Iyer,

**Time and Location:** MWF 11:30am-12:20pm, CDH 115

**Contact:** karthik2@uw.edu

**Course Description:** This course is a continuation of Math 126. The emphasis is mostly on integration in multiple variables. We will discuss Chapter 15: iterated integrals (double and triple), a bit of Chapter 14: gradient and derivatives and the rest of the quarter deals with Chapter 16 which introduces line integrals, vector fields, surface integrals and ultimately how to calculate them using the theorem of Gauss, Green and Stokes. This course is 'end-loaded', in that there are a lot of big topics in the last 2 weeks. Be ready for that!

**Prerequisite(s):** Math 126 or equivalent.

**Text(s):** *Multivariable Calculus - Custom Edition (Early Transcendentals)*, 7<sup>th</sup> Edition

**Author(s):** James Stewart

**Grade Distribution:**

Assignments	20%
Quizzes	10%
Midterm Exam	30%
Final Exam	40%

**Course Structure:**

- **Lectures:**

Lectures are MWF 11:30 - 12:20 pm in 115 Condon Hall. You will be held responsible for all information that is discussed during lectures.

- **Homework:**

Assignments are due roughly every Wednesday at the beginning of the class starting from the second week. Discussion is encouraged but you *must write up the solutions in your own words* after the discussion. Start each problem on a new page. Clearly label each problem, staple them in order and write neatly. Be sure your name, the due date, and the course name or number is on the first page in the upper right corner.

- **Exams and Quizzes:**

There will be two exams. An in class midterm and an in class final exam. There will be two quizzes. One before the midterm and one after.

## Course Policies:

- **General**

- You will be allowed one  $8.5 \times 11$  (front and back) sheet of **handwritten** notes for the midterm and final. Cheat sheets will not be permitted for the quizzes. Use of calculators in exams and quizzes is not allowed.
- *Late homeworks will not be accepted for any reason.* In case of observance of religious holidays or participation in university sponsored activities, arrangements must be made at least 1 week in advance for exams. You will be asked to provide documentation for your absence. *Make up exams will not be given.* If you miss an exam due to **unavoidable, compelling and well-documented circumstances**, your other exam will be weighed more heavily. **Contact me immediately if any of these circumstances arise.**

## Resources:

- Dr Andrew Loveless' archive of previous Math 324 courses, <http://www.math.washington.edu/~aloveles/ArchivedMaterials/Math324/index.html> has a bunch of useful information, review sheets and old exams with solutions.
- The Center for Learning and Undergraduate Enrichment (CLUE) holds drop in tutoring every weekday evening in Mary Gates Hall Commons. See <http://depts.washington.edu/clue/> for more details.
- The University of Washington is committed to providing equal 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
- The Student Counseling Center provides academic skills workshop on a variety of topics including stress management test anxiety and time management to help you succeed at the University of Washington. If any of these is an issue for you, check out the schedule of workshops at <http://depts.washington.edu/scc/studyskills.html>