Advanced Multivariable Calculus I
Sections C and D - Fall 2014

Instructor: Dr. Annie Raymond
Office: Padelford C-432
E-mail: raymonda@uw.edu
Course website:
`http://www.math.washington.edu/~raymonda/math324cdfall14.html`
Office hours: Monday and Wednesday from 10:00AM to 11:00 in my office

Text: *Multivariable Calculus* by James Stewart (this is a custom text for UW - you may also use *Calculus: Early Transcendentals, seventh edition* by Stewart). You may purchase a hard copy of the text at the bookstore or use the electronic version that comes with WebAssign.

Other Materials: You also need a WebAssign access code. If you took Math 124, 125 or 126 last year, then the code you purchased should still work. You shouldnt need to enter anything, you should be able to just log in. Please log in before Friday to make sure you can view the first assignment. If you have never purchased a webassign access code for calculus, then you will need to purchase an access code (see course website).

Course content: This course is a continuation of Math 126. The focus is mostly on integration in multiple variables. We'll discuss double and triple integrals in different coordinates systems in chapter 15. Then we'll cover gradient and derivatives in chapter 14. Finally, in chapter 16, we'll introduce line integrals, vector fields, surface integrals and ultimately how to calculate them using Green's theorem, Stokes' theorem and Gauß' theorem. This course is end-loaded, in that there are a lot of big topics in the last two weeks.

CLUE: The Center for Learning and Undergraduate Enrichment (CLUE) is the university's free, late-night, multi-disciplinary study center. They offer drop-in tutoring, discussion sessions led by graduate and senior undergraduate students, and a writing center.

Grading: The weight for each part of the course is given below.

Category	Weight
Quizzes	5
Homework	14
Midterm 1	24
Midterm 2	24
Final exam	33
Total	100

Homework: Homework assignments (eight in total) will be given out and collected via WebAssign. Homework will generally be due at 1:00 AM on Wednesdays. Your worst homework grade will be dropped.

Quizzes: There will be six quizzes throughout the quarter, always at the end of a lecture on Wednesday. The material covered on those quizzes will be the same as the homework due right before. You can use a scientific calculator (but not a graphing calculator) on the quizzes. Any formula you need will be given to you. Your worst quiz grade will be dropped.

Exams: You will be allowed to use a scientific calculator (but not a graphing calculator) and one 8.5×11 sheet of **handwritten** notes for the exams. The first midterm will be on 10/17 and the second on 11/17, both during the normal lecture time. The final exam for Section C will be on 12/10 from 2:30 to 4:20PM and on 12/11 from 8:30 to 10:20AM for Section D.

Exam dates: There won't be any make-ups for homework assignments, quizzes or exams. 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 me immediately if one of these circumstances arises.**

Grading scheme: I will set the grade scale for the course at the end of the quarter. My preliminary estimate is that the scale will be linear, with $4.0 = 95\%$ and $2.0 = 70\%$. The actual grading scale will be no tougher than this preliminary estimate, so your course grade will be at least as good as the preliminary scale indicates.