Math 324 D & E: Advanced Multivariable Calculus

Instructor:  Kristin DeVleming
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Time:       1:30-2:20 MWF (D)
            2:30-3:20 MWF (E)

Location:   CMU 230 (D)
            THO 135 (E)

Website:    www.math.washington.edu/~kdev/sp16/math324DE/

Textbook:   Multivariable Calculus, 7th edition by James Stewart

Overview

This class will cover chapters 15, 16, and part of 14 of Multivariable Calculus. This course can be thought of as a continuation of the calculus sequence, Math 124, 125, 126. Topics covered will include multiple integrals and applications, differentiation in higher dimensions, vector fields, line integrals, curl and divergence, Green’s Theorem, Stokes’ Theorem, and the Divergence Theorem. Similar to the calculus courses, there will be a focus on problem solving, and there will be a stronger focus on geometric understanding. We will review double integrals from Math 126, but you need to have a good grasp of the integration and differentiation techniques you learned in the Math 124, 125, and 126.

Grading

Your grade will be based on homework (15%), quizzes (20 %) a midterm exam (25%), and a final exam (40%). The class median will be set somewhere between a 2.8 and a 3.1.

Office Hours

I will hold two office hours per week. The day/time of the office hours will be determined by student availability and posted to the website. I will also be available by appointment.

Homework

Homework will be assigned, submitted, and graded via WebAssign. You must purchase a WebAssign access code to use this system. The homework assignments will typically be due on Thursdays at 11:00pm. Check the website for exceptions. Each assignment will be available at least one week before its due date.

Because of the nature of the online system, late homework assignments will not be accepted.
Quizzes and Exams

10- to 15-minute quizzes will be given in class most weeks, typically covering the homework due that week. They will be closed book and closed notes. Calculators are not allowed. There will be at least 5 quizzes but I will only count your best four scores. There may be a sixth quiz given in the last week of class, but still only your best four scores will count.

There will be one midterm exam, given in class on Wednesday, April 27. Calculators are not allowed, but you may have one single-sided handwritten note sheet.

The final exams will be on Monday, June 6th, from 2:30-4:20 (for section D) and Tuesday, June 7th from 2:30-4:20 (for section E) in our regular classrooms. For the final exam, you may use one 8.5×11 sheet of notes, double-sided. Calculators are not allowed.

Make-Ups

Extensions on homework will not be given under any circumstances. You may miss up to 5% of the total number of homework points during the quarter without penalty to your grade. There are no makeups for quizzes, but only your best four quiz grades will count. In the case of observance of religious holidays or participation in university sponsored activities, such as class field trips or athletics, arrangements must be made at least one week in advance for exams. You will be required to provide documentation for your absence. If you miss the midterm due to unavoidable, compelling, and well-documented circumstances (e.g., illness, transportation emergency), your final exam and quizzes may be weighted more heavily. Contact Kristin immediately if one of these circumstances arises.

Academic Dishonesty

Dont engage in any academic dishonesty. Information about what constitutes academic misconduct and the possible consequences can be found here: https://depts.washington.edu/grading/pdf/AcademicResponsibility.pdf.

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, 206-685-7264 (FAX), or dso@u.washington.edu.