Course Outline, MATH 125 F and H, Winter 2009

Instructor: Prof. Ioana Dumitriu
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TAs: **FA** and **FC**, Erik Slivken, PDL C-552, slivken@math.washington.edu
FB and **HA**, Peizhe Shi, GUG 407, ship@amath.washington.edu
HB and **HC**, Liza Gorstko, PDL C-109, lizagor@math.washington.edu

Office Hours: M, 1-2pm, PDL C-342
Tu, 4-5:30pm, Math Study Center (CMU B-014)

Reading Material: *Calculus, vol 1* (6th Edition), by James Stewart
Note: This is a **custom** edition. Get volume 1 if you do not intend to go beyond Math 125; else get both volumes.
Math 125 Homework/Worksheet Packet (recommended)
Both materials available at the Bookstore.

Course Websites:
- `http://www.math.washington.edu/~m125/`
(Math. Dept. website for Math 125)
- `http://www.math.washington.edu/~dumitriu/m125_wi09.html`
(specific to Math 125 F and H)

Syllabus: We will follow the Syllabus posted on the Math. Dept. website for Math 125 (see above), as closely as possible.

Grades: Based on homework, worksheets, quizzes, midterms and final, proportionally as follows:

WORKSHEETS: 5%, HOMEWORK: 15%, QUIZZES: 15%, 2 MIDTERMS: 15% each, FINAL: 35%

Homework: Assignments will be posted on the Math Department 125 website (see above); when you get to the website, click on the Outline of the specific week (e.g. week 3), and then on the weekproblems.pdf link (e.g. week3problems.pdf). Some answers are provided so you can check your work–we expect you to *fully justify* your answers. Turning in the answers alone will not yield any points.

Homework is to be handed in each Thursday in your Quiz section. Two problems will be chosen randomly to grade, each will be worth 3 points, and there will be an additional 4 points for completion (each homework is worth 10 points). **NO LATE HOMEWORK WILL BE ACCEPTED.** The lowest homework score will be dropped.

Quiz sections: On Tuesdays and Thursdays you will meet with your TA in a smaller group. Take the opportunity to ask questions and get help. Each Thursday you will have an 80-minute section when you will be handing in homework and solving a worksheet (as well as asking questions about the new material), while during the Tuesday 50-minute sections you will be taking a 15-minute quiz, and then asking questions / discussing problems.

Worksheets: There will be an in-depth worksheet in your Quiz section each Thursday (except on midterm and final weeks). They will be part of your grade.

Quizzes: There will be a 15-minute quiz most Tuesdays in the Quiz section (except on midterms and final weeks). The quiz will cover the material of the preceding week, and will be similar to the homework problems. *The quiz will be closed-book.* The TAs will grade them and return them to you the next week. Scientific calculators will be useful; **no graphing calculators will be allowed**. The lowest quiz score will be dropped. There will be **NO MAKE-UP QUIZZES.**

Midterms and Final: There will be two Midterms and one Final exam, the dates being 1/29, 2/26, respectively 3/14. The Midterms will be administered on Thursdays, in Quiz section. They are meant to take 50 minutes, but you can use the whole 80 minutes. The Final will be administered on the **Saturday**, March 14, between 1:30-4:20. Location TBA.

You must bring a **Photo ID** to *all* exams. You will be allowed one double-sided, handwritten 8.5×11 sheet of notes. Scientific calculators will be useful and allowed, while **graphing calculators are not allowed**.

THERE ARE NO MAKE-UP EXAMS. If you have a *compelling and well-documented* reason for missing a test, speak to the Instructor about it.

What this course is about: The middle segment of the Calculus triad is dedicated to integral calculus: the computation of antiderivatives, volumes, areas, and a number of other applications. Essentially, we will be looking at the rates of change studied in the first segment, but from the inverse perspective.

This course is intended for students who will be using calculus in subsequent courses and throughout their careers. *It is intended to be challenging and in-depth. Make sure you allocate plenty of time for doing homework (12-15 hours a week) and studying for the exams.*

Other Info: Homework 1 is due on Thursday, January 15. The first Quiz will be on Tuesday, January 13.