Math 124 D: Calculus with Analytic Geometry
Summer 2012

Instructor: Matthew Junge
Lecture Time: MWF, 1:10 - 2:10 in SIG Room A214 (pending room change to PAA A214)
Office: PDL C435
Office Hours: M 2:15-3:15 PAA Room 214
       TH 4:30-5:30 PDL Room C435
Email: jungem@uw.edu
Course Website: http://www.mathjunge.com/teaching/124a

Section Time: T,TH, 1:10 - 2:10 in PAA Room A214
TA: Becca Uhlman
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Text: *Calculus Single Variable (Custom) (7E 12) with WebAssign.* Also, you'll need to download worksheets from the calendar on the class website. DO NOT use the department's materials website for worksheets - these are bad and outdated.

Overview: The topic of this course is differential calculus. We will study the derivative – the instantaneous rate of change – of a function. First we'll learn some techniques to compute derivatives of various functions, and then we'll study applications. Derivatives have applications in almost every field of study that uses functions. Despite its usefulness, the main point of Math 124 is to learn to solve problems and *communicate* your solutions to others, and this skill will be useful regardless of what you ultimately study.

The Math Study Center: The Math Study Center (MSC), located in COM B-014, is a great place to work on calculus, whether or not you need help. There is a staff of tutors available to help you if you get stuck, but there is no extended one-on-one tutoring. If you find you want a private tutor ask me, I have some personal recommendations.

Grading: Grades will be *curved* in such a way that the median for the course, depending on the classes' performance, will result in a grade between a 2.7 and a 3.0.
Homework: 15%
Worksheets: 5%
Quizzes: 15%
Midterm Exam: 25%
Final Exam: 40%

Homework: Homework assignments will be assigned and collected via Webassign (www.webassign.net/washington/login.html). Please, log into webassign this week and add yourself to the course. During quiz section, your TA will answer questions about the homework.

Workseets: Each week in quiz section on Tuesdays, you will work in groups on worksheets. You must print your own worksheet and bring it to class. These are on the calendar in the class website.
You will get participation points for coming to class on time and staying on task with your group. The point scale is (0= no show or very late), (1 = off task or moderately late), (2 = diligent and focused), (3 = you did something that was both amazing and extraordinary). A 3 is the *only* opportunity for extra credit in the course. Since the critical part of worksheets is the understanding gained from the camaraderie and team-manship of

talking to others in the class about the material, THERE ARE NO MAKE-UP WORKSHEETS. Your lowest worksheet score will be dropped.

Problem Squad: Every Monday I will hold a review session specifically geared towards preparing for the midterm and final. Essentially I will send/post out old midterm and final problems, then any interested students can attend the Problem Squad 'Workout' and discuss the solutions. Note: Problem Squad is completely optional, and does not have any bearing on your grade. However, past students have found it to be very helpful.

Quizzes: There will be four quizzes. Your lowest score between Q1 and Q2 will be dropped, and so will your lowest score between Q3 and Q4. Quizzes will take place on Thursdays. There are no makeups (that is why you are allowed to drop one). You will have 25 minutes.

Exams: You may use a simple scientific calculator on the exams (though a calculator will not be necessary), but you may NOT use a calculator with graphing capabilities, nor a calculator on your phone or iPod or other device. You also may take one double-sided 8.5" × 11" sheet of notes in your own handwriting in to each exam. The **final exam** will be given in two parts of one hour each, on the last two days of class. Here are the exam dates:

- Quiz 1: 6/28 ; Quiz 2: 7/5 ; Quiz 3: 8/2 Quiz 4 8/9

- Midterm: 7/19

- Final Part I: 8/16 Final Part II: 8/17   (8/17 is in lecture)

There are no make-up exams. If you miss a the midterm due to an unavoidable, compelling and well-documented circumstance, your final exam may be weighted more heavily. Contact me immediately if you are in such a situation. Additionally, there is no possibility to take the final *early*. Again, should a compelling excuse arrive please contact me and we will work out a time *after* the scheduled final for a makeup. (Note that leaving for a vacation is not a compelling reason).