41414 Math 12-61 MW Intro. Calculus for Bus. & Soc. Sci, Spring, 2014

Instructor: Dr. Karl Schaffer
Class meeting days: Mon./Wed.
Class time 6:30-8:45 PM
Classroom: E-36
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Office phone: 408-864-8214
Office**:** E-23A
Office Hrs: : **Mon/Wed/ 5:30-6:20 PM, Tue/Thu 12:30-1:20 PM**
or by appointment
De Anza class web site: http://nebula2.deanza.edu/~karl/
Class link login name: damath password: 1234

Course content: Introduction to limits, differentiation, and integration of single variable functions. Differentiation of multivariate functions. Applications in business, economics, and social science.

Recommended: Programmable graphing calculator.
Not allowed: computers or other communication capable devices may not be used during class time or exams. Put away and DO NOT use cell phones during class.

Student Learning Outcome Statements (SLO)
• **Student Learning Outcome**: Use correct notation and mathematical precision in the evaluation and interpretation of derivatives and integrals.
• **Student Learning Outcome**: Evaluate, solve, interpret and communicate business and social science applications using appropriate differentiation and integration methodologies.

Text: Applied Calculus, 4th edition, by Hughes-Hallett, Gleason, et al. ISBN: 978-0-470-17052-6. We will cover most of the text. It is the 4th edition, rather than the current 5th edition, so you should be able to purchase it very inexpensively online. Your first homework assignment is due the third class session.
We will cover chapter 1 quickly, then chapters 2 – 7, skip 8, some of chapters 9 and 10, skip 11.
Grades: 90-100 A, 80-89 B, 70-79 C, 60-69 D, < 60 F, based on:

20%	**Short quizzes, writing assignments or reports, or in-class assignments**, often to be given during class. These will often involve group work. You may drop your lowest score.
20%	**60 min. exam, Wed., April 30 (Open book, open notes, Scantron mostly)**
20%	**60 min. exam, Wed., May. 28 (Open book, open notes, Scantron mostly)**
20%	**Homework assignments**. Homework is assigned during each class and must be kept in a loose-leaf binder. Your **homework will be collected at the end of each chapter**. Homework is graded for completion, not correctness. NO LATE HOMEWORK ACCEPTED. EVER!
20%	**Final Exam**: mandatory, comprehensive, given on **Wed., June 25, 6:15-8:15 PM. (Open book, open notes, Scantron mostly)** There will be no make-ups or early exams. **The final exam will be used to replace one of the two 60 minute exams, if and only if final is higher.**

NO LATE WORK IS ACCEPTED - NO MAKE-UPS. IF YOU MUST MISS ONE MAJOR EXAM, IT WILL BE REPLACED WITH THE FINAL EXAM SCORE, BUT THIS IS NOT A GOOD IDEA! HOMEWORK ASSIGNMENTS MAY BE CHECKED AT ANY TIME, SO KEEP YOUR WORK CURRENT!

Some background on the instructor: Ph.D. and MA in Mathematics from UC Santa Cruz, undergraduate work at University of Chicago and University of Alabama. Grew up in New England and Alabama. Do research in the mathematics of "networks," (graph theory) and am very active in math education for K-12. I am also a modern dance performer and choreographer, and company I co-direct does shows about math and dance, among other things. For more background on this see http://www.mathdance.org and/or www.movespeakspin.org.
In fact, we have a wonderful concert this coming weekend, April 11-13, 2014, called The Daughters of Hypatia: Circles of Mathematical Women, about the lives of great women mathematicians throughout history, and their struggles to create groundbreaking mathematics. Student tickets available for $12, but for my students you can get another $2 off by using the code DeAnzaHypatia at the ticket site.

First assignment:
Chapter 1: End of chapter review (pg 77), every other odd problem, starting with problem 1, 5, 9, …, due at beginning of 3rd class session.