

## Math 2A-63 MW Differential Equations, Winter, 2012

Instructor: Dr. Karl Schaffer  
Class meeting days: Mon./Wed.  
Class time 6:30-8:45 PM  
Classroom: E-32

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

email: [schafferkarl@fhda.edu](mailto:schafferkarl@fhda.edu)

De Anza class web site: <http://nebula2.deanza.edu/~karl/>  
Class link login name: damath password: kmath

**Course content:** Ordinary differential equations, with selected applications. This course will include qualitative, numerical, and analytical approaches.

**Recommended:** Programmable graphing calculator.

**Not allowed:** computers or other communication capable devices may not be used during class time or exams. Please put away and DO NOT use cell phones during class.

**Text:** Differential Equations, Third Edition. By Blanchard, Devaney, Hall. Published by Thomson Brooks/Cole Publishing Co., 2006. ISBN 0-495-01265-3. The authors maintain an excellent web site at <http://math.bu.edu/odes/>, with sample exams, interactive lessons, notes, etc. The text may have (if you buy it new) a CD-Rom with excellent exploratory software, but this is not needed, as I will give it to you!

Grades: 90-100 A, 80-89 B, 70-79 C, 60-69 D, < 60 F, based on:

- 15% **Short quizzes, writing assignments or reports, or in-class assignments**, often to be given during class, though we may be able to use the online quizzes provided by the publisher. These will often involve group work. You may drop your lowest score.
- 15% **One hour exam, Mon. Jan. 30 (Open book, open notes, Scantron mostly)**
- 15% **One hour exam, Wed., Feb. 22 (Open book, open notes, , Scantron mostly)**
- 15% **Homework assignments.** Homework will be collected at the end of each chapter. Homework is graded for completion, not correctness. NO LATE HOMEWORK ACCEPTED. EVER!
- 20% **Two projects:** (1) Moldy Bread experiment due **Mon., Feb. 6.**  
(2) TBA application of differential equations, due **Mon. Mar. 19.**
- 20% **Final Exam:** mandatory, comprehensive, given on **Wed., March 28, 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 one-hour 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 [www.mathdance.org](http://www.mathdance.org) and/or [www.movespeakspin.org](http://www.movespeakspin.org).