

## 30752 Math 2B.25 Linear Algebra, Winter, 2013

Instructor: Dr. Karl Schaffer  
Class meeting days: Tue./Thu.  
Class time 6:30-8:45 PM  
Classroom: E-32  
email: [schafferkarl@fhda.edu](mailto:schafferkarl@fhda.edu)

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

**Course content:** Linear algebra and selected topics of mathematical analysis. This class will cover the traditional topics of linear algebra: linear transformations, matrices, vectors and vector spaces, eigenvalues and eigenvectors, linear systems of equations, determinants, and applications.

You should have a graphing calculator - you may use it on all exams and quizzes. I recommend the TI-86 or one of the newer TI's, as they are also used in other math classes on this campus. You may not use a computer or cell phone or any electronic device with communication capability during classes or exams; this rule will be strictly enforced

**Text:** The text is Linear Algebra by Jim Hefferon, available at <http://joshua.smevt.edu/linearalgebra/>. This book is also available in printed form from Lulu press for \$26. Additional materials will be available on class web site or handed out. Also recommended are *Schaum's Outline Linear Algebra* by Lipschutz, and *Linear Algebra* by Gilbert Strang.

Assignments will also be recorded at the class web site above.

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

**20% Several short quizzes**, writing assignments, or in-class assignments, usually to be given during class. These will often involve group work. You may drop your lowest score. These assignments will together constitute one exam. An individual or group project at the end of the quarter will count as two quizzes.

### Exams:

You will need a scantron form (half-page) for the following:

**20%: one hour exam, Wed., Jan. 30**

**20%: one hour exam, Mon., Feb. 25**

**20% Homework assignments.** Homework is assigned during each class and must be kept in a looseleaf binder. Your homework may be checked periodically (usually during exams), and some assignments may be collected for grading. Homework is graded for completion, not correctness. **NO LATE HOMEWORK ACCEPTED. EVER!**

**20% Final Exam:** mandatory, comprehensive, given on Wed., March 27, 6:15-8:15 PM. There will be no make-ups or early exams. The final exam score will be used to replace lowest of the earlier 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 interested in and will use collaborative learning and interdisciplinary learning techniques in the class. I am also a modern dance performer and choreographer, and company I co-direct does shows about math and dance, among other things see <http://www.mathdance.org/>, or <http://www.schafferstern.org/>