

**SYLLABUS**  
**Winter 2012**

<b>Course:</b>	<b>Math 531–Advanced Linear Algebra</b>
<b>Prerequisite:</b>	<b>Math 331</b>
<b>Text:</b>	<b>Elementary Linear Algebra Fourth Edition Friedberg / Insel / Spence 2003 by Pearson Education, Inc.</b>
<b>Time/Place:</b>	<b>MWF 12:00-1:10 p.m. JB 111</b>
<b>Instructor:</b>	<b>Zahid Hasan</b>
<b>Office/Phone:</b>	<b>JB 325 (909) 537-5369</b>
<b>Email:</b>	<b>zhasan@csusb.edu</b>
<b>Office Hours:</b>	<b>MWF 11:00-11:55 a.m., MW 3:25-3:55 p.m., and by appointment.</b>

**Material to be Covered:**

The topics to be covered in this course are **inner product spaces, duality of vector spaces, canonical forms, spectral theory, and quadratic forms**. Thus, we will cover chapters 2, 5-7 of the text, with certain sections omitted.

**Grading:**

We will have two 150-point tests and a 200-point "comprehensive" final exam. An additional 50 points will come from 7 10-point short quizzes. The best 5 quizzes will count towards your grade. The quizzes will be based on the homework assigned during the classes and will take place every Friday of the quarter except the first week, and the test weeks.

You may use the final exam percent score to replace your lower test score. With 550 points possible, the class grade will be based on total points accumulated, with

490–550 an A, 480-489 an  $A^-$ , 470-479 a  $B^+$ , 430-469 a B,  
420-429 a  $B^-$ , 410-419 a  $C^+$ , 370–409 a C, 350–369 a  $C^-$ ,  
330–349 a  $D^+$ , 310–329 a D, 290–309 a  $D^-$ , and 0–289 an F.

If you must miss a test, let me know in advance. Makeups for tests and quizzes will not be given without serious and compelling reasons for your absence from the class.

**Tests:**

We will have two tests and a "comprehensive" final exam.

You may use the final exam percent score to replace your lower test score.

**Test Dates:**

February 8

March 7

**Notes:**

1. If you are in need of an accommodation for a disability in order to participate in this class, please let me know ASAP and also contact Services to Students with Disabilities at UH-183, (909)537-5238.
2. Please see the section **ACADEMIC REGULATIONS** (page 46) in the **CSUSB Bulletin of Courses** (2010-11) for the university's policies on course withdrawal, cheating and plagiarism.

**Important Dates:**

January 16: Campus Closed for Martin Luther King.

January 30: The last day to drop a class without record of enrollment.

**Final Exam:** Wednesday, March 21, 12:00–1:50 p.m.