

Math 513: Introduction to Linear Algebra, Winter 2008

M,W,F from 12-1
4096 East Hall

Course Website: <http://www-personal.umich.edu/~knecht/Math513.html>

Instructor Contact Info:

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Required Text: *Linear Algebra: An Introductory Approach* by Charles W. Curtis

Course Description:

This is an introduction to the theory of abstract vector spaces and linear transformations. The emphasis is on concepts and proofs with examples and calculations to illustrate the theory. Topics are selected from: vector spaces over arbitrary fields; linear transformations, bases, and matrices; eigenvalues and eigenvectors; applications to linear differential equations; bilinear and quadratic forms; Spectral theorem; Jordan Canonical Form.

Grading: Grades will be determined using the following weights:

Homework:	20%
Exam 1 (in class): Wednesday, February 6 th	20%
Exam 2 (in class): Friday, March 14 th	20%
Final Exam (take home):	40%.

Individual Homework: Homework solutions should be legible, and each problem should be worked out in detail. Since this is a 500 level course, I expect proofs to be well written and logical. Please staple your homework and write your name and the assignment number on the front page. You are strongly encouraged to work with others in the class, but everyone must submit their own write-up.

Late Policy: Homework is due at the beginning of class on most Fridays. Late homework will not in general be accepted. Special circumstances will be considered for allowing late turn-ins. Your lowest homework grade will be dropped without question. That includes zeros.

Exams: There are two in class midterm exams and one comprehensive final exam. All exams are closed-book and closed-notes. You will not be allowed to use a calculator on the exams.

Please see me or email me if you require special accommodations due to learning disabilities, religious practices, physical requirements, medical needs, or any other reasons.