

Math 222-501: Linear Algebra I , Spring 2005

Professor Emil J. Straube

Time/Loc.: MWF 9:10 - 10:00, CE 136

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Office hours: MWF 1:00 - 2:00

Text: S. J. Leon, *Linear Algebra with Applications*, 6th edition

Prerequisite: Math-152 or Math-172

Course Content: This is an introductory course in linear algebra covering the abstract concepts of vector spaces and linear transformations, as well as their applications to systems of linear equations, matrices, and determinants. (*Approximately* chapters 1 - 6 in the book.)

Grading Policy: There will be three exams during the semester, each worth 100 points. In addition, there will be a *comprehensive* final exam, also worth 100 points.

Course Syllabus:

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| week 1: 1.1 - 1.2 | Spring Break (March 14-18) |
| week 2: 1.3 - 1.4 | week 9: 4.3, exam 2 |
| week 3: 2.1 - 2.2 | week 10: 5.1 - 5.2 |
| week 4: 3.1 - 3.2 | week 11: 5.2 - 5.3 |
| week 5: exam 1, 3.3 | week 12: 6.1 - 6.2 |
| week 6: 3.3 - 3.4 | week 13: exam 3, 6.3 |
| week 7: 3.5 -3.6 | week 14: 6.3 - 6.4 |
| week 8: 4.1 - 4.2 | week 15: 6.4 (time permitting) |