

## MH 2660 TOPICS IN LINEAR ALGEBRA

Instructor: **Dr. Gary Gruenhage**. 214E Parker Hall

My homepage: <http://www.auburn.edu/~gruengf/>

Office hours: **MW 1pm-2:30pm; also after class, and by appointment.**

Text: Steven Leon, **Linear Algebra with Applications, 9<sup>th</sup> Edition**

Grading scheme: **4 hour exams**, each 15% of course grade. First one will be *Thursday, Sept. 8.*

**Short quizzes** every week except this week and hour exam weeks. First one will be Thursday, Aug. 25. Quizzes count a total of 15% of course grade. *You can drop the three lowest short quiz grades.*

**Final exam** counts 25% of the course grade, and if your final exam score is higher than one of your hour exam scores, you can replace your lowest hour exam score with the final exam score.

Make-up policy: Make-ups may be given for missing exams due to illness or other official university excuses. However, because there are so many of them, **no make-ups on short quizzes**. The three drop system is designed to take care of any you need to miss for any reason, and should be sufficient for most students. Exceptions made only in unusual circumstances.

Homework: At the end of each class period, I will assign some problems related to the material discussed that day. Working these problems prior to the next class period is the best way to learn the material and do well in the class. I will be happy to answer questions about the homework problems during my office hours or at the beginning of the next class period. I also have a Graduate Teaching Assistant who will have office hours, days and times to be announced later.

Sections to be covered:

Chapter 1, Matrices and systems of equations.....Sections 1-5  
Chapter 2, Determinants.....Sections 1-3  
Chapter 3, Vector Spaces.....Sections 1-6  
Chapter 4, Linear Transformations.....Sections 1-2  
Chapter 5, Orthogonality.....Sections 1-6  
Chapter 6, Eigenvalues.....Sections 1-3