

Linear Algebra I
Math 265, Winter 2015
12:00-12:50 MTWTh, Bouillon 210

Instructor: Dr. Fassett
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Office Hours: to be announced

Text: Linear Algebra: with applications, Eighth Edition, by Steven J. Leon. An older edition can be used, but the exercise numbering often differs. You are responsible for making sure you are attempting the intended homework problems.

Calculator: A calculator capable of matrix operations is recommended for the course. I will be using the TI-84 Plus.

Course Goals: Upon successful completion of the course, the student will be well-versed and proficient in the following areas and techniques of linear algebra:

- Systems of linear equations
- Determinants
- Vector spaces and subspaces
- Linear independence, basis, and dimension
- Linear transformations.
- Eigenvalues and eigenvectors
- Applications of linear algebra

Course Policies:

Attendance: Daily attendance is expected and considered necessary for success. Please bring the text and a calculator to each class meeting. You are responsible for any announcements made during class regarding homework and exams.

Technology: We will often make use of our calculator's ability to perform tedious and complicated computations that can arise in linear algebra. I will assume that everyone is familiar with the basic arithmetic and graphical features of their calculator.

Homework/Quizzes: Daily homework will be assigned but not collected. As the assigned problems will form the basis for quizzes and exams, it is to your advantage (and responsibility) to keep up with homework. There will be several quizzes worth 20 points each. Your top five quizzes will count towards your grade. The quizzes are designed to see if you are keeping up with (and understanding) the homework.

Exams: There will be two 100-point exams announced in advance. No exam score will be dropped. If you must miss an exam due to illness, please have someone contact me by email or office phone as soon as possible (preferably before the exam is administered).

Final Exam: There will be a comprehensive 125-point final exam. The date of the final exam is determined by the registrar.

Grading: In linear algebra, many of the assigned problems will be to determine whether or not a given statement is true or false. Usually it is easier to determine the answer than it is to explain your reasoning for arriving at the answer. In grading written solutions, I will be paying special attention to the precise communication of both logical reasoning and mathematical computations.

Course Grade: Total points for the course will be based upon the following:

Quizzes (top five)	100 points
Two exams	200 points
Final Exam	<u>125 points</u>
Total	425 points

Course grades will be assigned based upon the following scale:

100-93% = A	79.9-77% = C+	below 60% = F
92.9-90% = A-	76.9-73% = C	
89.9-87% = B+	72.9-70% = C-	
86.9-83% = B	69.9-67% = D+	
82.9-80% = B-	66.9-63% = D	
	62.9-60% = D-	

I reserve the right to adjust the above scale (in the student's favor) if deemed appropriate.

Students with special needs or disabilities that may affect their ability to access information or material presented in this course are encouraged to contact the Director of Disability Support Services at 963-2171 (TTD 963-2143).