

Linear Algebra II
Math 365, Winter 2015
10:00-10:50 a.m. MWTh, Farrell 101, 112

Instructor: Dr. Fassett

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Text: Linear Algebra Done Right, Second Edition, by Sheldon Axler.

Course Description: As the title suggests, Math 365 is the second course in linear algebra.

Course Goals: Upon successful completion of the course, the student will be proficient in answering questions of both a computational and theoretical nature within the following topics:

- Vector spaces and subspaces
- Linear maps
- Eigenvalues and eigenvectors
- Inner-product spaces

Course Policies:

Class Participation: Daily classes will be a mixture of lecture, discussion, and oral presentation of problems. Meaningful contributions are expected each week. This can take the form of presenting a proof or participating in class discussions. There should be plenty of time to share your thoughts, understandings, and questions. Poor attendance will hurt your participation score.

Homework: Problems from each section will be assigned and selected problems will be turned in for grading. You are encouraged to work together on homework but each student must turn in his or her own write-up. Problems turned in for grading will be organized and neatly presented or they will not be graded.

Exams: There will be an in-class midterm exam and a take-home final exam. You cannot pass the course without taking the final exam.

Course Grade: Course grades will be assigned according to the following:

Homework	45%
Class participation	5%
Midterm Exam	25%
Final Exam	25%

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).

General Comments: I expect you to take advantage of the text's thorough explanations by reading it in detail. You may find it helpful to write comments in the text that fill in the gaps or highlight questions you would like to address during class.

Many of the problems you will work on will take several attempts over a period of several days. You may even find yourself waking-up in the middle of the night thinking about a particular problem. Be persistent, keep up, work together, and enjoy yourself. After all, this is how the material you will be studying was developed.

I assume everyone has experience writing logically and grammatically correct proofs. As we move a long in the course our expectations of each other's proof writing abilities will increase.