

Linear Algebra II
Math 365, Spring 2018
8:00-8:50 a.m. MTThF, Bouillon 210

Instructor: Dr. Fassett

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Office Hours: 2-2:50 MTWTh

Text: Linear Algebra Done Right, Third 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

The main goal of the course is for students to learn how to read, understand, and write rigorous mathematical proofs in the setting of linear algebra.

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 their own write-up. Problems turned in for grading will be organized and neatly presented or they will not be graded. I encourage (but do not require) you to type up your homework solutions.

Exams: There will be an in-class midterm exam and a take-home final exam.

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

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

Course grades will be assigned based upon the following scale:

100-90% = A	76.9-73% = C+	below 55% = F
89.9-87% = A-	72.9-70% = C	
86.9-83% = B+	69.9-67% = C-	
82.9-80% = B	66.9-63% = D+	
79.9-77% = B-	62.9-60% = D	
	59.9-55% = D-	

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

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, discuss your concerns with the instructor. Students with disabilities should contact Disability Services to discuss a range of options to

removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509) 963-2214 or email ds@cwu.edu for more information.

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.