Instructor. Christel Rotthaus
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Office Hours. MWF 1.30-2.30pm, and by appointment
Text. Linear algebra done right, second edition, by Sheldon Axler, Springer
Course Objectives. After a brief review of the foundations of linear algebra: vector spaces and linear maps, the course will focus on the main topics: eigenvalues and eigenvectors, inner product spaces, operators on inner product spaces and complex vector spaces with special emphasis on the Spectral Theorem and Jordan forms. The course will cover chapters 1-10 in Axler’s book and if time permits some selected topics from chapters 11 and 12. Students in this class must be familiar with mathematical proofs.

Homework, Exams and Grading. Your grade will be determined by
2 One-hour exams: tentative dates: October 11 and November 17
Final exam: Date for the final exam: Wednesday, December 13, 10:00-12:00noon
Homework: Homework problems will be assigned at the beginning of each class. It is essential to your understanding of what is going on in class that you work hard on them on a day-to-day basis. The problems assigned will be collected each week on Wednesday. Your solutions must be written up neatly and logically, with appropriate explanation (in complete sentences) of what you are doing. Some of the homework problems will be graded. You may discuss any of the problems with each other, as long as you work alone and use your own wording to write up the homework to be handed in. Late assignments will not be accepted.

In general, the University policy concerning academic integrity applies to this class. According to the Spartan Life Booklet, General Student Regulations, ". . . no student shall claim or submit the work of another as one’s own”

After each class read your notes, read the section in the book, and do the assigned homework problems. You should do at least two hours of work outside of class for each class section. Attend all classes.
Point distribution:
Hourly Exams 200 Points
Final 200 Points
Homework 200 Points

Grading scale:
4.0 • 92% or above
3.5 • 85 - 91%
3.0 • 78 - 84%
2.5 • 71 - 77%
2.0 • 64 - 70%
1.5 • 57 - 63%
1.0 • 50 - 56%
0.0 • 49% and below

Important dates.

Friday, September 1. Open add period by computer enrollment ends.

Tuesday, September 14 - Friday, September 8. Students go to Undergraduate Office, A212 WH, for Mathematics enrollment changes (late adds, dropping back to a lower course, section changes) DEADLINE: Friday, 9/8/06, 5:00PM.

Thursday, September 21. Last day to drop with no record of course on transcript; end of tuition refund period.

Tuesday, October 17. MIDDLE OF SEMESTER: Last day to drop a course or withdraw from all courses with no grade reported.

Friday, December 8. Last Day of Classes - Fall 2006

Wednesday, December 13, 10:00-12:00noon. Final exam