Math M303: Linear Algebra
Spring 2020
MWF 11:15-12:05, SE 010, Section 2844

Professor Jim Davis
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Office hours: Monday 9-10, Tuesday 3:30-4:30, Thursday 1:30-2:30, and by appointment.

Associate Instructor: Yunlin He email: yunhe@indiana.edu


Grades:
Exam I: 16%
Exam II: 16%
Exam III: 16%
Final: 30%
Quizzes: 15%
Homework: 7%

Exam Schedule:
Exam I: Friday, February 7, in class
Exam II: Wednesday, March 4, in class
Exam III: Wednesday, April 15
Final Exam: Monday, May 4, 10:15-12:15. The final is cumulative.
There will be a quiz on each section. The five lowest quiz scores will be dropped, but makeups will not be given.

Syllabus:
Sections: 1.1, 1.2, 1.3, 1.4, 1.5, 1.7, 1.8, 1.9
2.1, 2.2, 2.3
3.1, 3.2, 3.3
4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.9
Week of March 30: 4.9 (Markov chains), 5.1 (eigenvectors and eigenvalues)
Week of April 6: 5.2 (characteristic equation), 5.3 (diagonalization)
Week of April 13: 5.3, 5.4 (eigenvectors and linear transformations), exam on Wednesday, April 15, 6.1 (dot product, length, and orthogonality)
Week of April 20: 6.2 (orthogonal and orthonormal bases), 6.3 (projections)
Week of April 27: 6.4 (Gram-Schmidt), 6.5 (Least-Squares)

Expectations: Read the text before and after each lecture. Attendance is required. No phones during lectures – in particular, no texting! Don’t cheat. Anyone caught cheating will be reported to the Dean of Students and flunk the course. Anything on this course announcement is subject to change if I feel something else would work better. I will try to do my best to give a well-organized course in order to enable you to succeed in Linear Algebra.