MATH220 Linear Algebra (Spring, 2016)

Text: Linear algebra and its applications (4th ed.), by Strang

Instructor: Dr. Ron Yang, Time: Lecture 1:40–2:35am at ES 146 (MWF)

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Office Hours: TBD at ES 319(C), or by appointments.

Course objectives: Linear algebra is a fundamental subject in mathematics, with applications to almost every branches of math and with new theorems being discovered continuously up to this date. This course is an introduction to the subject of linear algebras. It will cover the following classical topics: matrices, linear system of equations, vector space and linear transforms, determinant, eigenvalues and eigenvectors. Among these topics, linear system of equations is the soul. We shall see it in various forms throughout the course.

Homework: Homework is assigned at each class and will be graded through quizzes.

Quizzes: A 30-min quiz will be given on Fridays near the end of class. Quiz problems are selected from HW and the examples covered in class, with possible minor changes.

Test: There is a midterm exam in March and a final exam at the end of semester. At least 80 percent of exam problems are similar to those in HW or quizzes, with possible minor modifications.

Grade: Quizzes 30%, Midterm Exam 30%, Final Exam 40%.