

Course Syllabus for Math 225-R2, Fall 2009  
*Introductory Matrix Theory*

Text: David C. Lay, Linear Algebra and Its Applications, Addison-Wesley, 3rd Edition

Prerequisite: Math 220 or equivalent

Time and Place: 1:00-1:50pm, TR, 142 Henry Admin Bldg.

Instructor: Mohit Kumbhat; email: kumbhat2@illinois.edu

Office: 245 Illini Hall; ph: 217-721-4623

Office Hours: to be decided, or by appointment, 245 Illini Hall

Topics and Class Hours(approximate)

Chapter 1: System of Linear Equations (Sect. 1.1-1.5, 1.7)- 5 hrs

Chapter 2: Matrix Algebra (Sect. 2.1-2.3, 2.6)- 4 hrs

Review 1 and Exam 1- 2 hrs

Chapter 3: Determinants (Sect. 3.1-3.3)- 4 hrs

Chapter 4: Vector Spaces (Sect. 4.1-4.3, 4.5-4.6)- 5 hrs

Review 2 and Exam 2- 2 hrs

Chapter 5: Eigenvalues and Eigenvectors (Sect. 5.1-5.3)- 3 hrs

Chapter 6: Orthogonality (Sect. 6.1-6.3, 6.5)- 4 hrs

Review 3- 1 hr

Final Exam: 1:30-4:30 PM, Monday, December 14, 142 Henry Admin Bldg.

Grading Policy: 12% Weekly Homework (60 pts), 12% Occasional quizzes (60 pts), 40% Exams 1-2 (100 pts each) and 36% Final exam (180 pts)

Note: Those who have an influenza-like illness, with symptoms such as cough, fever and sore throat, should stay out of close contact with others and not come to work or class to reduce the spread of infection. In order to accommodate students' absences due to flu-related issues, make-ups for quizzes and exams will be offered during normal office hours and at other times when necessary.