

MATH 221 L07, Fall 2007

Instructor: Jędrzej Śniatycki, MS 420. Office hours (by appointment): Mondays 14:15-15:45.

Text: Keith Nicholson, Linear Algebra with Applications, McGraw-Hill, Fifth Edition.

Quizzes: There will be 5 quizzes given in labs. Credit of 5% for each quiz; total 25%.

Lecture Schedule

Week	Material	Topics
Sept 10-14	1.1, 1.1, 1.2	Linear equations
Sept. 17-21	1.2, 1.3, 1.3	Homogeneous systems
Sept. 24-28	2.1, 2.2, 2.2	Matrix algebra
Oct. 1-5	2.3, 2.3, 2.4	Matrix inverses
Oct. 10-12	–, 3.1, 3.1	Determinants
Oct. 15-19	3.2, 3.2, 3.3	Determinants and matrix inverses
Oct. 22-26	3.3, 3.3, 3.3	Eigenvectors, diagonalization,
Oct. 29 - Nov 2	A, A, A	Complex numbers, Appendix A
Nov. 5-9	4.1, 4.1, 4.1.	Vectors and lines
Nov. 14-16	–, R, M	Review (R) and Midterm (M)
Nov. 19-23	4.2, 4.2, 4.2	Projections and planes
Nov. 26-30	4.3, 4.3, 2.5	Cross product, Transformations
Dec. 3-7	4.4, 4.4, R	Transformations, Review.

Labs and Quizzes

Labs begin in the second week of classes, September 17-21. During each lab, the Instructor will answer questions about problems from the text, solve some problems on the blackboard and administer a quiz, if one is scheduled.

Students are encouraged to do all problems in the sections of the text covered in the course.

Date	Lab#	Quizzes / Sections	Problems
Sep. 18, Tuesday			Sec. 1.1, 1.2,
Sep. 21, Friday			Sec. 1.1, 1.2, 1.3
Sep. 25, Tuesday			Sec. 1.2, 1.3
Sep. 28, Friday		Quiz 1a / Sec. 1.1-1.3	
Oct. 2, Tuesday		Quiz 1b / Sec. 1.1- 1.3	
Oct. 5, Friday			Sec. 2.1-2.4
Oct. 9, Tuesday			Sec. 2.1-2.4
Oct. 12, Friday		Quiz 2a / Sec. 2.1-2.4	
Oct. 16, Tuesday		Quiz 2b / Sec. 2.1-2.4	
Oct. 19, Friday			Sec. 3.1-3.3
Oct. 23, Tuesday			Sec. 3.1-3.3
Oct. 26, Friday		Quiz 3a / Sec. 3.1-3.2	Sec. 3.3
Oct. 30, Tuesday		Quiz 3b / Sec. 3.1-3-2	Sec. 3.3
Nov. 02, Friday		Quiz 4a / Sec. 3.3	Appendix A
Nov. 06, Tuesday		Quiz 4b / Sec. 3.3	Appendix A
Nov. 09, Friday			Sec. 4.1
Nov. 13, Tuesday		Reading Day	Lab cancelled
Nov. 16, Friday			Review
Nov. 20, Tuesday			Sec. 4.1
Nov. 23, Friday		Quiz 5a / App. A, Sec.4.1	
Nov. 27, Tuesday		Quiz 5b / App. A, Sec.4.1	
Nov. 30, Friday			Sec. 4.2-4.3
Dec. 4, Tuesday			Sec. 4.2-4.4, 2.5
Dec. 7, Friday			Sec 2.5, 4.4