

SPRING SEMESTER 2005

Math 220: Matrices Syllabus

Instructor: Daniele Signori
Office: 38 Scott Building
Office Hours: M 2:30P – 3:30P; R 11.10A – 12.10P
email: signori@math.psu.edu
web: <http://www.math.psu.edu/signori>

Course Description: Systems of linear equations; matrix algebra; eigenvalues and eigenvectors; linear systems of differential equations.

Prerequisite: Math 110 or 140.

Textbook: *Linear Algebra and its Applications*, third edition, by David Lay, published by Addison Wesley Longman.

Calculators: The use of calculators will not be permitted on exams. Calculators may be used (but are not required) on homework assignments.

Midterm: A 75-minute evening examination will be held on March 1, 2005 at 6:30.

Final Exam: A comprehensive final examination, covering all the content of the course, will be given. The final exam period will begin on Monday, May 2 and will end on Friday, May 6. **Students should not make plans to leave University Park before Saturday, May 7, 2005.** Students must bring their student identification cards to all examinations.

Conflict and Makeup Exams: Only students with official University conflicts, or a valid, documented excuse, will be permitted to schedule the conflict exam or the makeup with no penalty. Students who miss the exams (without a documented excuse) may take a makeup, but will receive a mandatory 20-point deduction on their scores.

Students must sign up for conflict or makeup exam at least 48 hours in advance of the exam date.

Grading Policy: Grades will be assigned on the basis of 350 points distributed as follows:

- 100 points for homework and quizzes
- 100 points for the midterm examination
- 150 points for the final examination

Academic Integrity: All Penn State and Eberly College of Science policies regarding academic integrity apply to this course.

See <http://www.science.psu.edu/academic/Integrity/index.html> for details.

Course outline: linear equations in linear algebra (1.1-1.9), matrix algebra (2.1-3,2.8-9), determinants (3.1-2), eigenproblems (5.1-4), orthogonality and least squares (6.1-5), symmetric matrices (7.1-2).