

Applied Linear Algebra , FALL 2006

SYLLABUS, INFORMATION AND GRADING POLICIES

Course : Mathematics 227Q, Section 2

When and where : TuTh, 11:00am-12:15pm, Classroom MSB 411.

Instructor : Dr. Vadim Olshevsky

Office: MSB M314

Tel: (860)486-4343

E-mail: olshevsky@math.uconn.edu

Web page : <http://www.math.uconn.edu/~olshevsky>

Office hours : TT, 3:00pm-4:00pm, except for the meetings.

Questions I can quickly answer are welcome right after class.

Textbook : *Linear Algebra and Its Applications*, Third edition, by David C. Lay Addison-Wesley, 2003 ISBN 0-201-70970-8).

Calculator : Students will be allowed to use a non-graphing calculator on the exams (and homework).

A graphing calculator is not allowed on the tests.

Prerequisites : Math 116 or 121.

Attendance policy : A sign-in sheet will be passed around each class day. Please sign in the same way on each sheet. A student is considered present only if he/she has attended the entire class, **having arrived on time and remained until the class has been dismissed.**

Cheating and plagiarism : All work submitted for grading must be the student's own work. Plagiarism will result in a score of **ZERO** on the test or paper, or dismissal from the course. Students should be familiar with the Student Code at the University of Connecticut.

Schedule :

Tuesday, Aug 29	First class
Monday, Sept 11	Courses dropped after this date will have a "W" for withdrawal recorded on the academic record
Monday Oct. 30	Last day to drop a course
Sunday, Nov. 19	Thanksgiving recess begins
Saturday Nov 25	Thanksgiving recess ends; classes resume
Thursday Dec. 7	Last class

Midterms and Final :

There will be 5 homework assignments (the last is optional), three exams and a final.

The three exams and final will be closed book, with a non-graphing calculator, and a page of notes allowed.

Grading :

- I will grade selected only problems; for example, one or two problems out of, say, 15 problems you were assigned. This will be 10% of your overall grade.

- Three exams - 20% each, and the Final Exam 30%.

There are absolutely no make-ups (except for medical and emergency reasons), so any absence from an exam results in an automatic zero for that exam.

- After averaging everyone's scores and adding the "attendance" bonus, if any, I use a ten-point-span for each letter grade. So 90-100 is an "A", 80-89 is a "B", 70-79 is a "C", 60-69 is a "D" and below 60 is an "F". Averages are rounded to the nearest integer.

Bonus :

A small bonus of 0-3 points will be given (at my discretion) at the end of the semester to some students; this is based on class attendance, participation, and other intangibles and is added to averages only of students who are on a grade borderline.

Topics :

- Linear Equations and Matrices, Chapter 1.
- Matrix Algebra, Chapter 2.
- Determinants, Chapter 3.
- Vector Spaces and Linear Transformations, Chapter 4.
- Eigenvectors and eigenvalues, Chapter 5.
- Time permitting: Orthogonality and the Gram-Schmidt Process, Chapter 6.
- Diagonalization of symmetric matrices, Sec. 7.1

Please note that this course syllabus provides a general plan for the course; deviations may be necessary.