

Syllabus
Math 630, Section 101: Matrix Analysis
Spring 2005, TuTh 4:00–5:15 pm, MP 012

Instructor: Dr. Minkoff

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Office Hours: Tuesday 3–4 pm and Thursday 11:00 am–12:00 noon or by appointment.

Prerequisite: A working knowledge of a high-level programming language such as C or Fortran, or Matlab. Note that we will be using Matlab exclusively in this course. Even if you have not had exposure to Matlab previously, you will have time to master the basics of the language by working on the homework assignments.

Texts — Required: *Fundamentals of Matrix Computations*, 2nd Edition, by Watkins. Publisher: Wiley-Interscience, 2002.

Recommended: *Mastering MATLAB 6*, by Hanselman and Littlefield. Publisher: Prentice Hall, Inc., 2001.

Additional References: (1) *Numerical Linear Algebra* by Trefethen and Bau. Publisher: SIAM, 1997. (2) *Matrix Computations* by Golub and Van Loan. Publisher: The Johns Hopkins University Press.

Grades:

Paper and Pencil Homework	20%
Computer Homework	25%
Midterm Exam	25%
Final Exam	30%
<hr/> Total	<hr/> 100%

Homework and computer assignments: There will be one homework (which may include paper and pencil and/or computer work) due every week on Thursdays. Homework is to be turned in at the START of class on Thursday or can be slipped under my office door *prior* to class on Thursday if you must miss class for some reason. *Late homework will not be accepted.*

Please note that the homework constitutes a substantial portion of your overall grade. In order to learn the concepts and be able to apply them to solving problems on exams, etc., you are strongly encouraged to devote as much time as possible to working the homework problems. I encourage you to discuss the homework assignments with other students in the class. However, I expect the homework you submit for grading to be written up by you alone (this includes computer programs which must not be duplicates of programs other students turn in).

Tests: No make-up exams will be given except *possibly* in the case of a serious emergency. In such a case I *must* be notified *in advance*. There will be no exceptions to taking the final exam at the date, time, and place specified by the University (Thursday 5/19/05 from 3:30–5:30 pm in MP 012). The final exam will be comprehensive although material covered after the midterm will be emphasized.

Academic Conduct:

I take academic dishonesty *very seriously* and will not tolerate it in this class in any form. Academic misconduct includes willfully cheating on or giving aid during an exam or copying homework assignments (computer or paper and pencil). Blatant copying on an exam, homework assignment, or computer assignment will result in a grade of zero for that work.

The university now stipulates that the following be included in all class syllabi:

By enrolling in this course, each student assumes the responsibility of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal.

To read the full Student Academic Conduct Policy, consult the *UMBC Student Handbook*, the *Faculty Handbook*, or the UMBC Policies section of the *UMBC Directory*.

Class Attendance: I expect students to attend class and to turn up **on time**. Rarely do students do well in classes which they do not attend, and I will be less likely to give outside assistance to students who regularly miss class. Further, students arriving late for class disrupt the entire class. Students who consistently turn up more than a few minutes late for class or who regularly miss class may be docked points from their final grade.

Email: I am happy to answer questions about the class via email. However, I will not respond to email which does not include the name of the sender.

Important Dates:

Date	Notes
1/31/05	First day of class
2/11/05	Last day to register and last day to drop class (without "W" on transcript)
3/29/05	Midterm Exam
4/18/05	Absolute Last day to drop class
5/17/05	Last day of classes
5/19/05	Final Exam