**Syllabus**
**Math 430/630: Matrix Analysis**
**Fall 2000, Tu/Th 5:30–6:45pm, SS 209**

**Instructor: Sue Minkoff**
Office: 440 Math and Statistics (MP)
Phone: 410–455–3029
Email: sminkoff@math.umbc.edu
**Office Hours:** MW 4:00–5:00 pm or by appointment.

**Prerequisite:** For Math 430 students: Math 251, 301 and a working knowledge of a high-level programming language such as C or Fortran.

**Text:** *Numerical Linear Algebra* by Trefethen and Bau. Publisher: SIAM, 1997.

**Additional References:** *Matrix Computations* by Golub and Van Loan. Publisher: The Johns Hopkins University Press.

## Grades:

| | |
|---|---|
| Homework | 20% |
| Computer Projects | 30% |
| Midterm | 20% |
| Final Exam | 30% |
| Total | 100% |

**Homework:** The homework problems will focus on the class theory. Late homework will not be accepted. I encourage you to discuss the homework problems with other students in the class. However, I expect the homework you submit for grading to be written up by you alone. Points will be deducted for identical papers or problems.

**Computer Projects:** There will be 2 or 3 computer projects which will serve to illustrate the algorithms covered in class. The computer codes must be written in Matlab for you to receive credit. No other languages will be accepted. You will only receive full credit for the computer labs if they are included in a well-structured and well-written writeup (details to be provided with the computer lab assignments).

**Tests:** No make-up midterm 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 (Tuesday, December 19, 6–8 pm SS 209).

## 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 or computer assignments. You will be asked to sign an "honor statement" on each exam and computer lab stating the following:

"On my honor I pledge that I have neither given nor received any aid on this exam/computer lab"

## Important Dates:

| Date | Notes |
|---|---|
| 8/31/00 | First day of class |
| 9/12/00 | Hand out Computer Project 1 |
| 9/14/00 | Last day to register |
| 9/28/00 | Last day to drop class (without "W" on transcript) |
| 9/28/00 | Computer Project 1 due |
| 10/17/00 | Midterm |
| 10/17/00 | Hand out Computer Project 2 |
| 10/31/00 | Computer Project 2 due |
| 11/9/00 | Last day to drop class |
| 11/14/00 | Hand out Computer Project 3 |
| 11/30/00 | Computer Project 3 due |
| 12/13/00 | Last day of classes |
| 12/19/00 | Final Exam |

*For an expanded schedule and other information see my web page for this class: http://www.math.umbc.edu/Faculty/minkoff.html*