

Math 340 – Syllabus – Fall 2003

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Office Hours: Monday 11-12 am, Friday 11:00 -11:30 am, 2-3 pm, or by appointment.

Course: Multivariable Calculus, Linear Algebra, and Differential Equations I (Honors), MF 10:00-10:50 am, W 10:00 -11:50 am, in MTH 0306. Section 0101.

Main Text: J. Hubbard and B. Hubbard, *Vector Calculus, Linear Algebra, and Differential Forms: A Unified Approach*, Second edition; Prentice-Hall (2002) ISBN 0130414085.

Linear algebra supplemental text: C. Cullen, *Matrices and Linear Transformations*, Second Edition; Dover Publications (1990) ISBN 0486663280.

This course covers the essentials of multivariable calculus. Linear algebra is covered mainly as needed to aid in the study of calculus. Differential equations will not make an appearance until next term (Math 341). We will begin with a brief review of the main theorems of calculus of a single variable. Then we will proceed to cover most of Chapters 1 to 4 from the main text. (The supplemental text will be referred to as needed, especially while we discuss Chapters 2 and 3). We will only cover selected parts of Chapters 5 and 6.

Homework: Homework problems will be assigned weekly on Fridays, and collected the following Friday. Exceptions may occur near the exam dates. Late homework will not be accepted unless there are extenuating circumstances (you will need to contact me and possibly provide documentation).

You are encouraged to work together on homework problems, but you must write up and turn in your own solutions. See the Honor Pledge link on the course web-site.

Your lowest three homework scores will be dropped in the calculation of your homework grade.

IMPORTANT: All assignments will be made on the course web-site. You are responsible for checking the course web-site regularly for those assignments and for other important announcements. See <http://www.math.umd.edu/~tjh>.

Exams: Tentative dates for in-class exams:

Exam I: Friday, October 10.

Exam II: Friday, November 14.

The final exam will be Saturday Dec. 20, 8:00-10:00 am. (Location TBA.)

Grading: Your final grade will be calculated according to the following scheme:

Exams I and II: 25% each
Homework: 12.5%
Final Exam: 37.5%.

Other:

- Make-ups for in-class exams will only be given for *compelling* and *documented* reasons.
- It is your responsibility to contact me promptly if any legitimate circumstance (e.g., a religious holiday, a family emergency, etc.) presents a problem for you in connection to this course (e.g. a serious conflict with one of the scheduled exam dates). Don't worry, I will be reasonable about such things, and we will make the appropriate arrangements.
- The last date to drop this course and receive a "W" is approximately November 22.