MATH 211 — Calculus I

Fall, 2003

Instructor:
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Office Hours: TU 12:00N-1:00pm, WED 2:30pm-3:30pm, TH 1:30pm-2:30pm,
FRI 9:45am-10:45am, and by appointment.


Homework: Homework will be collected daily and graded periodically. Students are allowed to consult with one another provided everyone does their share.

Reading Assignments: An important key to success in this course is to prepare for class before coming to class. Primarily, this means reading the textbook. From the Course Schedule, you will always know which text sections we will be discussing during each class period. You will be expected to read each class day’s material ahead of time, so that you will get more out of our time together. Each reading assignment will include a small number of questions for you to answer, to help you test your understanding of what you have read. The due dates for these assignments are given on the Course Schedule. For detailed instructions, read Guidelines for Reading Assignments on my “Teaching Information” webpage, at the URL given above.

In-Class Work: There will be a number of in-class assignments, many of which will be group assignments.

Mini-Projects: The course will include a number of extended, out-of-class assignments.

Computer Assignments: A number of assignments will involve the use of the computer software package Mathematica. No special knowledge of computers is necessary for the course.

Exams: There will be three in-class exams and a (comprehensive) final exam. The exams will be given on the following dates:

- Exam 1: Wednesday, September 24.
- Exam 2: Monday, October 27.
- Exam 3: Monday, November 24.
- Final Exam: Thursday, December 11, 9am-12N.

Grading Policy:
Exam 1: 15% Homework/Mini-Projects: 19%
Exam 2: 15% Class Participation/Reading Assignments: 5%
Exam 3: 15% Computer Assignments: 8%
Final Exam: 23%
**Attendance:** Students are expected to attend all class meetings. If an absence is unavoidable, you are still responsible for all material covered and assignments made. *THERE ARE NO MAKE-UP EXAMS.* If an exam is missed, and the excuse is offered within 24 hours, and the excuse is allowed, then the grade on the Final Exam will replace the exam grade. A student who must miss an exam because of a University-sponsored activity should notify me as soon as possible, as you may be able to arrange to take the exam early (but not late).

**Academic Honesty:** Students are to abide by the official University policy on academic honesty. Each student will be required to sign their exam papers, thereby signifying their compliance with the University Honor Pledge.

**Symbolic Reasoning Field-of-Study Statement:** MATH 211 is an introduction to calculus, the mathematical language of change. Calculus is used to model phenomena in a surprisingly wide variety of applications, in such areas as the physical and biological sciences, economics, epidemiology, and personal finance.

Students in MATH 211 will be expected to develop skills in formulating problems, solving them, and communicating their solutions to others (usually in written form). Successful formulation of a problem often requires that the student recognize how the basic concepts of calculus are involved in the problem at hand, and be able to translate the problem into appropriate symbolic form. This process of formulation and solution helps students to develop analytical skills applicable to a wide variety of situations. Some problems are designed to have students construct and analyze mathematical models of real world phenomena, while other problems help students make conceptual leaps from specific examples to general principles.