

**UNIVERSITY OF NOTRE DAME**  
**DEPARTMENT OF MATHEMATICS**  
**MATHEMATICS 105 - ELEMENTS OF CALCULUS I**  
Spring Semester, 1993

**TEXT:**

Calculus and its Applications (Edition 5), Goldstein, Lay and Schneider

**TEACHERS:**

Professors Dariusz Wilczynski, Mark Alber and Hong Ming Yin

**EXAMINATIONS:**

There will be three Departmental Exams and a Final Departmental Exam. The Final will cover all the material of the semester. You will receive two grades for each Departmental, the first numerical, the second a letter grade giving your exact standing in the exam. Cutoffs for grades tend to fluctuate from exam to exam, depending on the kind of material that is covered. The cutoffs for course grades will be determined by adding all the cutoffs for the individual examinations. Beginning with the first exam, the letter grade is an accurate reflection of the student's standing in the exam.

**NATURE OF EXAMINATIONS:**

All exams will be conducted under the Honor Code. An instructor will be present at each exam to answer questions. You may not have notes, papers, books, calculators, etc., near your seat during an exam unless otherwise instructed.

**EXAMINATION ATTENDANCE:**

You will receive a zero for any missed departmental exam unless you have an official excuse from the Associate Vice President for Residence Life, in which case, a make-up will be given. In any case, if you miss an exam contact your instructor before noon of the day of the examination.

**CLASS ATTENDANCE:**

A freshman may be given an F if he accumulates more than 3 unexcused absences. Before assigning this grade, the instructor must give one warning in writing, with a copy to the Freshman Year Dean's office, that any further non-excused absence may result in a grade of F. Because of the size of these classes it is imperative that students refrain from conversing during class. In this way all students will be able to hear the lectures.

**HOMEWORK:**

Homework and classwork will be an integral part of the course. They will be used to determine borderline grades at the end of the course. An instructor need not accept any assignment that is late.

### **TIMES OF DEPARTMENTAL EXAMS:**

Tuesday, February 2	8:15-9:15 a.m. (100 points)
Thursday, March 4	8:15-9:15 a.m. (100 points)
Tuesday, April 13	8:15-9:15 a.m. (100 points)
Final, May 7	1:45-3:45 p.m. (150 points)

The course grade will be based on the sum of all the test scores with 450 points the highest possible total. It is the responsibility of every student to observe the dates of the examinations, and to keep them in mind when making travel plans for breaks. Under no circumstances will any exam be given earlier than scheduled.

### **EXTRA HELP SESSIONS:**

We are trying to arrange for some extra help sessions this semester. You will be notified in class of the times and places of the sessions.

### **COURSE SYLLABUS:**

The present plan is to cover the following sections of the text. However it may be necessary to make changes in the syllabus. Your instructor will announce any syllabus changes in class.

0.1, 0.2, 0.3, 0.4, 0.5  
1.1, 1.2, 1.3, 1.4, 1.6, 1.7, 1.8  
2.1, 2.2, 2.3, 2.4, 2.5, 2.6  
3.1, 3.2  
4.1, 4.2, 4.3, 4.4, 4.5, 4.6  
5.1, 5.2  
6.1, 6.2, 6.3