M 111-7: Calculus I

Fall, 1993

M 1:00-1:50 and TR 9:30-10:50   Jones 306

Instructor: Larry Leemis
Office: Jones 124 (Phone: 221-2034)
Office hours: Monday, Tuesday and Thursday 2:00 - 3:00

Purpose:

A student completing this course should understand the concepts and applications of derivatives and integrals. The first five chapters in the textbook will be covered. The computational algebra language *Maple* will be used for computational and graphics support.

Prerequisites:

Students should have a working knowledge of algebra, trigonometry and analytic geometry.

Text:

Hughes-Hallett, Gleason et al. (1992), *Calculus, Preliminary Edition,* John Wiley and Sons.

Grades:

Course grades will be determined by these weights:

Homework/Quizzes	25%
Exam 1	10%
Exam 2	10%
Exam 3	10%
Exam 4	10%
Final exam	35%

The final exam is on Friday, December 10 from 8:30-11:30 AM (location TBA). The grading scale for the course will be:

90 - 100 %	A
80 - 90 %	B
70 - 80 %	C
60 - 70 %	D
0 - 60 %	F

Homework:

A homework set will be assigned every Tuesday and Thursday. The homework set is due at the beginning of the next class period. The lowest two homework/quiz grades of the semester will be dropped.

Course outline:
1. Functions
2. Derivatives
3. Integrals
4. Differentiation short-cuts
5. Applications of the derivative