Vector Calculus
Math 241
Spring 1997

Instructor Information:

Professor: Bob Sharpley
Office: 313D LeConte
Office Hours: MWF 10:00-11:00 a.m. or by appointment.

Prerequisite: A grade of C or better in Math 142 or an equivalent course.

Text:

Calculus with Analytic Geometry, by D. Varberg and E.J. Purcell, 6-th ed., Prentice-Hall, Englewood Cliffs, New Jersey, 1992.

Grading:

The course grade is computed from 3 Test grades (20% each), Homework (10%) and the Final Exam (30%).

Course Content:

The course will cover Chapters 14-17 of the text and includes topics of vector algebra and geometry, including space curves, velocity and acceleration, different coordinate systems; multivariate differentiation including gradients, directional derivatives, the chain rule, Max/Min theory, and Lagrange multipliers; Double and triple integrals, change of variables to polar, cylindrical, and spherical coordinates, applications; Vector calculus including vector fields, line integrals, and Green's theorem in the plane.
Exams will be over the lectures and attendence is therefore required according to standard University policy.

Make-up Policy:

Make-up exams are not normally given.

Important Dates:

Classes Begin	Monday	Jan. 13
Last Drop Date (no record)	Friday	Jan. 17
Test 1	**Friday**	**Feb. 14**
Last Drop Date (without penalty) ...	Friday	Feb. 21
Spring Break	Mon.-Friday.	March 9-14
Test 2	**Friday**	**March 21**
Easter (no classes)	Monday	March 31
Test 3	**Friday**	**April 18**
Last Day of Classes	Monday	April 28
Reading Day	Tuesday	April 29
Final Exam	**Wednesday** [9 AM]	**April 30**