COURSE: MATH ANALYSIS III (MATH 6) SEMESTER: FALL 1999

INSTRUCTOR: C. L. Glaves
OFFICE: FEM-4D
PHONE: 638-3641 ext. 3215

OFFICE HOURS: M W F 9:00 - 9:50 AM
~~M 2:40 - 3:30 PM~~ CG.
or by appointment

TEXT: Calculus With Analytic Geometry, Volume Three, Sixth Edition, Howard Anton.

OBJECTIVES: This is a course in Vector Analysis and Calculus for functions of more than one variable. The student will learn three dimensional representations of vectors, lines and planes; the calculus of vector-valued functions; partial differentiation and applications; and multiple integration and applications. The course will end with several topics from vector calculus: fields, line integrals, Green's and Stokes' Theorems.

EXAMS: Four or five exams plus a final exam, all exams equally weighted. The lowest of the exam scores will be dropped. There will be no make-up exams without prior approval.

HOMEWORK: Homework will be assigned every day. It is crucial to your success in the class that you do the homework. Homework will be collected on a random schedule. Late homework will not receive a grade.

GRADING: Based on exam scores (lowest dropped) and homework. Homework for the semester is worth 10% of the grade, exam scores 90%.

Scale: 87% A
77% B
65% C
50% D

ATTENDANCE: In accordance with RC policy, attendance is mandatory. A student may be dropped after eight absences unless special arrangements have been made.

DROP DATE: Friday, October 15, is the last day to drop this class and not receive a letter grade.

HOLIDAYS: Monday, Sept. 6, Labor Day
Thursday - Friday, Nov. 25-26, Thanksgiving Holidays

FINAL: Wednesday, Dec. 15, 8:00 - 10:00 AM

Assignments (Anton 6/E)

CHAPTER 13

13.1 3,5,7,11,13,15,21,25,27,29,40
13.2 1,3,5,7,9,11,13,15acf,17,23,29
13.3 1,4,8,10,13,15,22,23,33,34,35
13.4 3,5,7,9,11,13,15,17,21,25,31
13.5 3,5,9,12,15,19,23,25,27,29,31,37,39,45,47(hard)
13.6 3,5,11,15,17,19,20,23,25,35,37,39,41,43

CHAPTER 14

14.1 3,7,11,16,40,43,47
14.2 5,11,17,18,20b,23,25,29,31,41,42,43,44,51,53
14.3 3,5,9,12,39
14.4 3,4,5,7,9,15
14.5 5,7,11,17,21,33,39,41,48
14.6 3,7,11,16,17,25,29,31,35,43,55,59,62

CHAPTER 15

15.1 1,3,7,15,18,19,23,27,37
15.2 15,20,23,25,27
15.3 7,10,11,17,21,25,30,39,43,47,51,83
15.4 1,3,8,11,13,21,25,27
15.5 1,5,7,17,19,21
15.6 5,7,9,11,13,17,27,29,35,40,43,45
15.7 3,7,13,17,24,27,31,41,53a,c,e,55,57,59,64
15.8 11,13,15,21,27,29,31,39,44(hard)
15.9 5,9,1,18,23,28

CHAPTER 16

16.1 3,7,11,15,21,24
16.2 3,7,11,13,17,35,41,43,47,55
16.3 13,15,21,25,34,35
16.4 -
16.5 5,6,11,15,16,17,22,23a
16.6 7,9,18,19,23
Intro to cylindrical and spherical coordinates
16.7 7,9,12,25

CHAPTER 17

17.1 1,5,7,11,13,16,
17.2 7,10,11,12,25,26
17.3 4,5,11,12,18