

**MULTIVARIABLE CALCULUS****SPRING 2008****SYLLABUS**

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Office hours: Tues. and Thurs. 1345-1400 (GC276); 17:15-18:00 (DM410C).

**TEXTS** (required): Calculus Multivariable

By Howard Anton, Irl Bivins, Stephen Davis : Eighth Edition

**COURSE OUTLINE:**

An introduction to the differential and integral calculus of vector-valued functions, functions of several variables, and vector fields.

Text Sections: 12.1-12.7, 14.1-14.8, 13.1-13.6, 15.1-15.3, 15.5, 12.8, 15.7, 16.1-16.4, 15.4, 16.6-16.8.

**I. REQUIREMENTS:**

1. **Prerequisites:** **MAC 2312** with a grade of **C or better** is **required**. Students who do not show that they have the prerequisite are subject to assignment of an F0 or to administrative drop.

2. **Attendance:** Attendance at all classes is expected. You need to be on time and remain the entire period. You are responsible for all material covered during class and assigned in the text. If you are absent from class, then it is your responsibility to obtain the notes from a fellow student. Please bring the text with you to class.

**Cell phones and beepers must be turned off before entering class.**

3. **Exams:** There will be 2 midterm exams and a final exam. **No make up exams** will be given. Tentative exam schedule: 2/5, 3/6, Final exam on 4/22 from 13:30-15:30. The dates will be finalized and confirmed at least 2 class periods before each exam.

All exams will be closed book. Formula sheets, calculators, cell phones and beepers are **not** allowed. Exams will be based on lectures, text assignments, problems similar to assigned homework. The final exam is cumulative.

4. **Quizzes:** There will be 2 quizzes consisting of problems taken from the homework assignments. The quizzes will be closed book. Formula sheets, calculators, computers, cell phones and beepers and any other electronic memory-accessible or communication device will **not** be allowed. Tentative quiz schedule: 1/24, 4/17. The dates will be finalized and confirmed at least 2 class periods before each quiz.

**II. POLICIES:****1. NO MAKE UP EXAMS WILL BE GIVEN.**

2. The performance measures are your exam and quiz grades. The approximate weight given to each exam is 31% and to each quiz is 3½%. Grades, for those correctly enrolled with required prerequisites, will be based on individual academic achievement assessed by performance on exams and quizzes. All requests for special consideration in grade determination will be denied.

MINIMAL GRADE SCALE: 90-100 % A; 77-89 %B; 63-76%C; 51-62%D; below 51% F (Pluses and minuses may be used).

At the end of the course, grades will be posted using Panthersoft on the FIU website .

3. Cheating, plagiarism, and academic misconduct will not be tolerated. Students will not be allowed to leave the room during an exam. Exams which have been disassembled will not be accepted. Students must not sit near study partners. You must eliminate formulas or other aids from your possible field of vision before accepting an

examination. There must be no talking during exams .

**4. Excused absences for exams may be given only for certain documented emergencies (primarily medical). They will not be given for attendance at scheduled activities, whether University sponsored or not, to attend other classes or for family or business trips.**

**To apply for an excused absence, you must submit a letter from an appropriate professional (not related to you) on letterhead with legible signature and telephone number including the following 3 statements : 1) it was not possible for the student to take a test on the specific date, 2) the absence was required by a medical problem verified by the professional and 3) this absence was beyond the control of the student. No excused absence will be given for an elective procedure scheduled to conflict with an exam. Letters requesting that a student be excused which do not contain the required 3 elements will not be accepted.**

Excused absences will result in the student's grade being calculated without the excused activity present. No makeup exams will be given.

**III. SKILL PREREQUISITES:** (You will need to use the following techniques which are in the FIU course syllabus for Calculus I and II without further instruction):

Trigonometry

Limits of Functions

Differentiation including Exponential, Logarithmic, Trig. and Inverse Trig. Functions

Implicit Differentiation

Integration by parts, partial fractions, trigonometric substitution

Mean Value Theorem

Riemann Integration: definitions and applications

Fundamental Theorem of Calculus.

Polar coordinates

Parametric equations

**IV. Additional sources of help:**

1 Learning Center for Mathematics (phone 305-348-2180). Call them 10-4, Monday-Friday, for schedule of the math tutors.

2 There are also tutors available at Multicultural Programs (available to all students), their hours are sometimes more flexible. Located in GC 216, phone 305-348-2436.

3 AAA Tutorial Office GC 331 A 305-348-4109

4 Math Dept.Tutoring Lab: For schedule, call Math Department (phone 305-348-2743).

**Please note:** Mar. 11 is the last date to drop the course with a DR grade. It is of great importance that you accurately assess your course performance prior to this date.