DEPARTMENT: MATHEMATICS

<table>
<thead>
<tr>
<th>COURSE #: MAC 2313, 5 credits</th>
<th>COURSE TITLE: Calculus with Analytic Geometry III</th>
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<tbody>
<tr>
<td>TYPE COURSE: Required</td>
<td>TERMS OFFERED: Fall, Spring, Summer</td>
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<td>CATALOG DESCRIPTION: Functions of several variables and their graphical representations; vectors; partial derivatives and gradients; optimization; multiple integration; polar spherical, and cylindrical coordinate systems; curves; vector fields; line integrals; flux integrals; divergence theorem and Stokes’ theorem. This course must be taken for reduced credit by students with prior credit for some of the content.</td>
<td>PREREQUISITES: MAC 2312, Calculus with Analytic Geometry II</td>
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Spring 2008: MAC 2313 - Calculus III, Section 04 Syllabus
http://www.math.fsu.edu/~mhurdal/teaching/mac2313/syllabus.html

Section 04
213 HCB
MW 12:20pm - 1:10pm
TR 12:30pm - 1:45pm

MAC 2313 - Calculus III
Spring 2008 - Course Syllabus
http://www.math.fsu.edu/~mhurdal/
Dr. Monica K. Hurdal
002-A Love Building
Office Hours:
TR 3:00pm - 4:00pm or by appointment

Instructor Dr. Monica K. Hurdal
Contact me Office: 002-A Love Building
Phone: 644-7183 (office); 644-2202 (dept. front desk)
Email: mhurdal@math.fsu.edu
Webpage: http://www.math.fsu.edu/~mhurdal/
Office hours TR 3:00pm - 4:00pm or by appointment.

Eligibility You must have the course prerequisites listed below and must never have completed with a grade of C- or better a course for which MAC 2313 is a (stated or implied) prerequisite. Students with more than eight hours of prior credit in college calculus are required to reduce the credit for MAC 2313 accordingly. It is the student's responsibility to check and prove eligibility.

Prerequisites You must have passed MAC 2312 (Calculus II) with a grade of C- or better or have satisfactorily completed at least eight hours of calculus courses equivalent to MAC 2311 and MAC 2312.

Text Calculus, 5th edition, J. Stewart

Course Content
This course covers chapters 12-16 from the text:
    Vectors and the Geometry of Space - Chapter 12
    Vectors Functions - Chapter 13
    Partial Derivatives - Chapter 14
    Multiple Integrals - Chapter 15
    Vector Calculus - Chapter 16
Course Objectives
This course is designed to introduce students to more advanced topics in calculus and some of their applications. The material in this course should be mastered before the student proceeds to courses for which it is a prerequisite. The purpose of this course is:
- to teach students advanced techniques and concepts in calculus,
- to demonstrate its usefulness in selected applications.
In addition to these course content objectives, my objectives are:
- to have students become aware of where mathematics is used around them and how mathematics can be useful,
- to encourage students to have practice writing mathematically. It is not only important to be able to do mathematics, but you also need to be able to convey your results to others.

Calculators A programmable graphing calculator is optional. However, you are likely to be at a disadvantage if you do not have one. Use of graphing or scientific calculators and computers for homework is encouraged.

Courtesy I expect you to get to class on time and not to leave class until I have dismissed it. If you must leave class early, please let me know before class begins.

Attendance I expect you to attend class regularly. Studies show that students who attend class get higher grades than those who skip classes. A student absent from class bears the full responsibility for all subject matter and procedural information discussed in class.

Class Participation
I will encourage and expect you to participate in class. I will ask questions in class and encourage you to try to answer questions, or ask questions if you do not understand something. I will also encourage class discussion about certain topics. Students are encouraged to work together on homework problems and assignments.

Grading There will be four unit tests and a cumulative final exam. There will also be short quizzes, graded homework and other assignments. Numerical course grades will be determined by 40%U+15%Q+15%H+30%E where U = unit test average, Q = quiz average, H = homework average, and E = final exam grade. Letter grades will be determined from numerical grades as follows. A: 90-100; B: 80-89; C: 70-79; D: 60-69; F: 0-59. Plus or minus grades may be assigned in a manner consistent with standard University practice. A grade of I will not be given to avoid a grade of F or to give additional study time. Failure to process a course drop will result in a course grade of F.

Exam Policy Makeup tests or quizzes will not be given. Late homework will not be accepted. A missed test, quiz or homework assignment may be excused if the student presents sufficient verifiable evidence of acceptable extenuating circumstances. If a test absence is excused, then the final exam will be used for the missing test grade. If a quiz or missed homework assignment is excused, then the missing grade will not be included when calculating the final grade. An unexcused absence from a unit test, quiz, or an unexcused missed homework assignment will result in a grade of zero. Absences from tests, quizzes or homework due to family social events will not be excused. Acceptable medical excuses must state explicitly that the student should be excused from class. Students must take the final examination at the scheduled time. Students must bring FSU ID cards to all tests.

Practice Homework
Homework assignments will be given in class and will be listed on the course web page. Students are expected to have done (at a minimum) the assigned homework as we will spend time in class discussing some of the homework. Students are encouraged to work problems not specifically assigned.

Quizzes and Graded Homework
There will be quizzes, based on the homework on Thursdays. There will be about 5 quizzes which will form your quiz grade. Your worst quiz grade will be dropped from your quiz average. A missed quiz will act as your worst quiz. There will be about 5 other graded assignments with specified due dates which will form your homework grade. Practice homework discussed in class will also form part of your homework grade.

Test Dates Tentative test dates:
- Test 1 ............................................... Thursday January 24
- Test 2 ............................................... Thursday February 14
- Test 3 ............................................... Thursday March 6
- Test 4 ............................................... Thursday April 3
- Final Exam ..................................... Tuesday April 21, 10:00 am - 12:00 noon

Math Help Center
The Math Help Center is located in 110 MCH (Milton Carothers Hall) next door to the Love Building. The hours of operation will be announced when they are available.

**Honor code** A copy of the University Academic Honor Code can be found in the current Student Handbook. You are bound by this in all of your academic work. It is based on the premise that each student has the responsibility 1) to uphold the highest standards of academic integrity in the student’s own work, 2) to refuse to tolerate violations of academic integrity in the University community, and 3) to foster a high sense of integrity and social responsibility on the part of the University community. Specifically, incidents of plagiarism of any type or referring to any unauthorized material during examinations will be rigorously pursued. Before submitting any work for this class, please read the “Academic Honor System” in its entirety (as found in the FSU General Bulletin and in the FSU Student Handbook) and ask me to clarify any of its expectations that you do not understand. You have successfully completed many mathematics courses and know that on a "test" you may not give or receive any help from a person or written material except as specifically designed acceptable. Out of class you are encouraged to work together on assignments but plagiarizing the work of others or study manuals is academically dishonest.

**ADA statement**

Students with disabilities needing academic accommodations should: 1) register with and provide documentation to the Student Disability Resource Center (SDRC); 2) bring a letter to the instructor from SDRC indicating you need academic accommodations. This should be done within the first week of class. This and other class materials are available in alternative format upon request.

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