Syllabus for Maths 264: Unified Calculus & Analytic geometry IV

Spring 2016

Instructor: Dr. Martial Longla . Office: Hume Hall 308

Office hours: Tu, Th: 10:00 - 12:00, or by appointment

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Course Information


Course Description

This course covers topics of multivariable calculus, including partial derivatives, multiple integrals and vector calculus (chapters 12, 13, and 14). One of the goals of this course is to enhance students’ critical thinking and analytical reasoning abilities. Students who successfully complete this class will be able to undertake the main courses related to their majors with full command of the required mathematical tools and to apply concepts and theories learned in class to solve some real application problems. Additionally, mathematics majors should be adequately prepared to continue their education in higher level courses where the concepts of calculus are examined in abstract form with full precision.

LEARNING OBJECTIVES:

The course is a culmination of the sequence of Calculus and addresses the main topics of the Calculus: the Derivative and the Integral, in the case of functions of several variables. The students who complete the course successfully should be able to undertake the main courses of their chosen major with the full command of the required mathematical tools. Additionally, Mathematics majors should be adequately prepared to continue their education in higher level courses where the concepts of Calculus are examined in abstract form with full precision.

TESTING INFORMATION:

. Class attendance – Attendance is mandatory.

. Homework – There are online assignments worth 100pts of your final grade. One homework per week due at Midnight. Homeworks will be due on Tuesday.

. Tests – There are 3 Tests each counting for 100pts and a final exam counting for 200pts. The test dates are listed below. No make-up tests will be given except in cases of verified emergencies. Each of the tests will have two portions: An online portion and an in class portion.

. There will be quizzes online every Tuesday due Thursday at 10AM based on the current material. The quizzes will count for 50pts of your final grade. (Quizzes are the best tools to assess your progress in this class. They prepare you for the tests.)
The first test is at the end of February, the second test is at the end of March and the third test is at the end of April. Each of the exams will consist of 2 parts. Questions will have two formats: Exact solved in class problems and problems similar to homework problems. No surprise to expect, if You learn.

These dates are subject to change with a two weeks notice.

The final Exam is by the registrar’s schedule. Don't miss it.

Grade letters and scores

A: 580-650 (includes A and A-), B: 520-579 (Includes B-, B and B+), C: 460-519 (includes C-, C and C+), D: 400-459, F: 000-399. I reserve the right to make the grading scale easier.

Calculator Policy

An inexpensive scientific calculator is sufficient in Math 264 but is not necessary. Calculators will NOT be allowed during exams or quizzes. While I cannot stop you from using a calculator at home, I encourage you to do the homework without a calculator. Calculators, cell phones, ipods, and other electronic equipment are prohibited during exams.

Additional Policies

1. Any person who must miss a scheduled mid-term exam or quiz because of an official university function must reschedule with the instructor to take the test at a time before the test is scheduled to be given. No other rescheduling will be allowed. If asked for by the instructor, official documentation must be provided.

2. A student who wishes to discuss the grading policy and/or testing policy, or wishes to have a conversation out of class topics must arrange to meet in my his office. We have barely enough time for the class.

3. An _I_ grade will not be given without the permission of the Department of Mathematics.

4. Any student having three or more final exams scheduled for the same day may arrange with the instructor to take the exam at another time. This is the only reason that a final exam may be rescheduled.

5. Every student must take each exam at the time scheduled. The only exceptions are those students affected by (1) or (4) above.

Course Withdrawal

The withdrawal deadline is March 4rd 2016. After the Course Withdrawal Deadline, courses dropped will be recorded on University records and the W grade will be recorded if the student is not failing the course at the time of withdrawal; otherwise the grade recorded will be F. After the course withdrawal deadline, a student may drop a course only in cases of extreme and unavoidable emergency as
determined by the academic dean; dropping a course after the deadline will not be permitted because of dissatisfaction over an expected grade or because the student is changing his/her major.

**Academic Needs**

It is the responsibility of any student with a disability who requests a reasonable accommodation to contact the Office of Student Disability Services (915-7128). That office through the student will then make contact with the instructor of this class. The instructor will then work with the student so that a reasonable accommodation of any disability can be made.

**Academic Honesty**

Cheating: The following statement is the policy of the Department of Mathematics regarding cheating:

Offenses: Cheating on any exam or quiz, theft or attempted theft of exam questions, possession of exam questions prior to the time for examination, or the use of an illegal calculator on tests or quizzes shall all be offenses subject to appropriate penalties.

Penalties: The penalty for commission of any offense set out above is failure in the course and, subject to the approval of the Chancellor, dismissal or suspension from the University.

Plan:

- Week 1-4: Chapter 12
- Week 5-8: Exam 1, Chapter 13
- Week 9-13: Exam 2, Chapter 14
- Week 13,14,15: Somewhere spring break 😊
- Week 15: Exam 3, Review
- Week 16: Final Exam