

Syllabus for Maths 555: Advanced Calculus I Spring 2014

Instructor: Dr. Martial Longla

Office: 308 Hume Hall

Office hours: Monday, Wednesday 11:20 - 12:35, or by appointment

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Course Information

Textbook: Advanced Calculus I by Richard R. Goldberg University Communications (University Printing) will be selling the Course-packs for this course. Printing services offers this services to many departments and they can be purchased for \$12.00 at the front desk.

Time/Place: Monday, Wednesday 2:30- 3:45PM/Hume Hall Room 331

Course Description

What we are calling “Advanced Calculus” will look familiar to you. It is elementary calculus. We perhaps call it “Advanced” because we prove everything. This is a theory course, not a problem-solving course. We will continue to topics introduced in the course Math 305 and go deep into the proof of several rules that are used in calculus. Everything will look familiar, but the questions will be new. Exam problems are not supposed to be copies of in class problems. They will reflect the concepts that are studied in the the course and your homework is suppose to give You a better understanding of the topics.

Topics The course includes, but is not limited to the following:

- Sets
 1. Operations on sets and the associated laws
 2. The power set Cardinality
- Relations
 1. Equivalence relations
- Sequences and Series
 1. convergence of sequences
 2. convergence of Series

Homework and Quizzes

A homework assignment will be given after every class. There will be a 10-minute quiz in class every **Monday** consisting of two of the previously assigned homework exercises.

Mid-terms and Final Exam

Three in-class mid-term exams will be given, on the following days: **February 24th, April 7th, and April 28th**. The final exam will be given on **Wednesday, May 7th**. The final exam will be comprehensive. Students must show all work for each exam question in order to receive full credit. The lowest score of the three mid-term grades will be replaced by the final exam percentage (provided the final exam percentage is higher).

Grade letters and scores

Grading The course grade will be calculated out of a total of 600 points, with each mid-term being worth 100 points, the final exam worth 200 points, and the homework/quizzes worth 100 points.

The grading scale is: A: 540-600, B: 480-539, C: 420-479, D: 360-419, F: 000-359. I reserve the right to make the grading scale easier.

Calculator Policy

An inexpensive scientific calculator is sufficient in Math 305 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 regarding the instructor of the course should make an appointment with the course supervisor in the Department of Mathematics.
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.

Important Dates

March 10th - March 14th: Spring break
March 4th: Last day to drop
May 5th - 9th: Final exam week

Course Withdrawal

The withdrawal deadline is March 4th 2014. 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). Contact will then be made by that office through the student to 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

