

COURSE INFORMATION

Course name and section: Math 555/Advanced Calculus I

Hours and location: 9:00pm-9:50pm MWF in Hume Hall 201

Instructor: Sandra Spiroff

Office address: Hume Hall 335

Office hours: M: 10am-11am, W: 11am-noon & 2pm-3pm, and by appointment

Office telephone number: (662) 915-5646

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Webpage: <http://home.olemiss.edu/~spiroff/Math555F09.html>

Text for the course: Course packet *Advanced Calculus, Second Edition*, by R. Goldberg.

Prerequisites: The prerequisite for this course is at least a C in Math 305.

Course Goals: Students will undertake a rigorous treatment of basic material on the fundamental concepts and tools of analysis—functions, limits, continuity, derivatives and integrals, sequences, and series. Difficult points usually glossed over in elementary courses are dealt with in detail, as well as more advanced topics, including metric spaces.

Syllabus:

CHAPTER	SECTIONS	TOPICS
Chapter 1	Review	Sets and Functions
Chapter 2	2.1-2.12	Sequences of Real Numbers
Chapter 3	3.1-3.12	Series of Real Numbers
Chapter 4	4.1-4.3	Limits and Metric Spaces

Calculator policy: Use of any electronic equipment not approved of by your instructor while taking a test will be considered cheating and appropriate action will be taken. All cellular phones, pagers, and other electronic equipment should be turned off and put away during the class period.

Examination policies: There will be three in-class exams. **Dates:** Wednesday, September 30th, Friday, October 30th, and Wednesday, December 2nd.

Homework policies: There will be regular homework assignments, due weekly. The homework content is the basis for the tests.

Grading policies:

- **Undergraduate:** Homework: 20%, Tests: 20% ea., Final: 20%.
- **Graduate:** Homework: 10%, Presentation: 10%, Tests: 20% ea., Final: 20%.

NO MAKE-UP EXAMS WILL BE GIVEN, but your lowest test score will be replaced by the final exam score. Grades will be determined on a straight scale of 100% - 90% for A, 89%-80% for B, 79% - 70% for C, 69%-60% for D, and 59% - 0% for an F.

Final exam date: Wednesday, December 9th from 8am-noon.

Holistic grade view:

- An **A** is earned by an individual who has synthesized the course material, has demonstrated his/her knowledge, and has given full support to any claims made.
- A **B** is earned by an individual who has understood the majority of the topics and has presented the work correctly and in a clear manner.
- A **C** is earned by an individual who has understood just the basics and essentially does the minimum required.
- A **D** is earned by an individual whose work, to some extent, misses the point of the course or is poorly presented. Work that totally misses the point, in either understanding or presentation, earns an **F**.

Very Important:

- (1) Any person who must miss a scheduled test because of an official university function must reschedule with the instructor to take the exam at a time BEFORE the exam is scheduled to be given. NO OTHER rescheduling will be allowed. Official documentation must be provided.
- (2) If a test is missed for any reason, a grade of 0 will be given.
- (3) Students must show all work in order to receive credit. Work shown must support answer.
- (4) No late homework will be accepted.
- (5) There will be no extra credit.
- (6) Each student is responsible for all work missed due to absences.
- (7) An "I" grade will not be given without the permission of the Department of Mathematics.
- (8) Any student having three or more final exams scheduled for the same day may arrange with the instructor to take either the 12:00 noon or 7:30pm exam at another time. This the only reason that a final exam may be rescheduled. The student is required to take the final exam at the time scheduled.

Withdrawals: The deadline for withdrawal is Monday, October 5th. After the course withdrawal deadline, courses 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 an F. After the course withdrawal deadline a student may drop a course only in cases of extreme and unavoidable emergency as determined by the student's academic dean. Dropping the course after the deadline will not be permitted because of dissatisfaction over an expected grade or because of a change of 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). Documentation from that office with the accommodation request must be provided to the instructor at least three working days prior to the date of the requested accommodation.

Academic Honesty:

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

Offenses: Cheating on any exam, quiz, class work, or homework, theft of exam questions, or possession of exam questions prior to the time for the exam shall all be offenses subject to the 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.