MAT 275
FALL 2011

INTRODUCTION TO ABSTRACT MATHEMATICS

Course Description: This course teaches you how to think logically and rigorously. It will change the way you read and analyze statements, and the way you construct arguments. And for those of you considering a major in mathematics, you will for the first time see mathematics as mathematicians do: not as a tool but as a rich and beautiful subject. All of this will be accomplished largely by studying how to read and write mathematical proofs.

The course will broadly follow the assigned text, but the lecture notes will form the main body of material. They are at least as important as the text book. For this reason it will be very hard to catch up if you miss class. If you do miss a class, you will need to get the notes from another student, as I will not be providing notes for lectures that are missed.

The emphasis of the course is mastery of the material and methods rather than covering a specific list of topics. Thus there is no set daily schedule for the course. We will proceed at the necessary pace to master the essential ideas. The work you do for the course will include solving problems and writing proofs of claims.

Mathematics Requirements: MAT 295 must be successfully completed, or you must obtain my permission.

Text: *Passage to Abstract Mathematics*, by Mark E. Watkins and Jeffrey L. Meyer, Addison-Wesley.

Calculator: A calculator is not necessary for this course.

Course Format: The course meets two times per week, every Monday and Wednesday.

Final Examination: The final exam is comprehensive. Your final examination will take place on Friday, 16ʰ December. The time and location will be announced in class during the semester. You are required to take the final examination during the appointed examination block and, in the absence of an exam conflict, at the scheduled time. DO NOT MAKE PLANS TO LEAVE CAMPUS BEFORE 2:30 P.M. on December 16th, 2011.

Important dates:
　　Add Deadline: 6th September 2011
　　Academic Drop Deadline: 25th October 2011
　　Withdrawal Deadline: 18th November 2011
　　First in-class exam: 5th October (tentative)
　　Second in-class exam: 14th November (tentative)
　　Final Exam: 16th December 2011

Grades: Your semester average will be based on your performance in the final exam, the two one-hour exams, and some combination of homework and quizzes. These components will be weighted as

follows:

Final exam	25% total
2 one-hour tests	25% each
Quizzes, homework, corrections	25% total

Your semester course grade will be determined from your semester average as follows:

93-100	A		77-79	C+
90-92	A-		73-76	C
87-89	B+		70-72	C-
83-86	B		60-69	D
80-82	B-		Below 60	F

Examinations: There will be two in-class examinations, each lasting one hour. There will be NO MAKE- UP EXAMS, even in the case of an emergency. A missed quiz or examination counts as a zero unless the student presents a valid excuse from a physician or his or her dean's office. With the written excuse, your score on the relevant portion of the final exam may be used to replace the missed quiz or exam.

Students with Disabilities: Students who may need academic accommodations due to a disability are encouraged to discuss their needs with me at the beginning of the semester. In order to obtain authorized accommodations, students must be registered with the Office of Disability Services (ODS), 804 University Avenue, Room 309, 315-443- 4498, and have an updated accommodation letter for the instructor. Accommodations and related support services such as exam administration are not provided retroactively and must be requested in advance.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see http://academicintegrity.syr.edu.

Dr Simon Smith
smsmit13@syr.edu
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