

MAT 375-M002 Introduction to Abstract Mathematics, Fall 2014, page 1

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Office Hours: Tuesday 11:15-12:00 noon, Wednesday 2:30-3:30 pm, Thursday 2:15-3:00 pm or by appointment.

Text: Passage to Abstract Mathematics, by Watkins and Meyer.

Course Description - Learning Outcomes: After successfully completing this course students will:

- know how to compose, write, read and understand mathematical proofs
- understand basic mathematical logic and set theory
- be able to understand and produce proofs by mathematical induction
- know how to work with the concept of infinity and be aware that some infinities are bigger than others.

Prerequisites: MAT 295.

Credit Restrictions: Credit cannot be given for both CIS 275 and MAT 375.

Homework: Some homework will be designated as "For your practice" other homework will be designated as "To be handed in". "To be handed in" homework is due at the beginning of class on Thursday after it is assigned. It will be graded and count towards your grade for the course. Students are allowed to collaborate on the "To be handed in" homework, but each student must hand in her or his own separate assignments. Collaboration includes working on the problem together or giving hints to other students after you have solved it yourself. It does not include letting someone else simply copy your solution. On the "For your practice" homework students may do whatever they want.

Quizzes: On most Thursdays there will be a quiz near the beginning of class. These will be graded and count toward your grade for the course. There will be no make up quizzes, but the four lowest quiz scores will be dropped.

Exams During the Term: Tuesday, September 30, Thursday, November 13, all during regular class time. Except in very very exceptional circumstances no make up exams will be given. In most cases, instead, the final exam will count extra. Even for that a very good reason for missing the exam is required.

Final Exam: Thursday, December 11, 2014 5:15-7:15 pm.

All exams and quizzes are closed book. No books notes or calculators are allowed.

Calculation of Course Grade: Two exams during the term 20% each, quizzes 20%, homework 10%, final exam 30%.

**Students with Disabilities:** If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), <http://disabilityservices.syr.edu>, located in Room 303 of 804 University Avenue, or call 315-443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations.

**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 is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy 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>

**Religious observances policy.** SU religious observances policy recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to are religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through MySlice (Student Services -> Enrollment -> My Religious Observances) from the first day of class until the end of the second week of class.