

MAT 375-001
Introduction to Abstract Mathematics
Fall 2018

Instructor: Professor Loredana Lanzani
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Office Hours: Mondays 10:30-11:20am
Wednesdays 11:30am-12:20pm

Class Time and Room: MW 12:45-2:05pm, CARN 219

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

Course Content: Principles of symbolic logic, set theory, basic function theory, relations and cardinality. Mastering of all methods of proof, including induction. Emphasis is on developing proof-writing skills. **Credit cannot be given for both MAT 375 and CIS 375.**

About this course: besides learning new mathematics that will be relevant in later classes, the main goal of this course is to learn how to write and understand mathematical proofs. MAT 375 covers at least some parts of Chapters 1-7 in the textbook. Additional topics may be presented by the instructor. Thus, your notes from lecture will be at least as important as the textbook. Please do understand that in this course it will be especially hard to catch up missed classes.

Instructors for MAT375 do not provide notes for missed lectures. If you must miss a class you will need to get notes from a classmate.

The emphasis of MAT 375 is mastery of the material and methods rather than covering a specific list of topics. There is no set daily schedule for this course. We will proceed at the necessary pace to master the essential ideas. The work you will do for this course will include writing your own proofs of claims (“claim” = theorem; lemma; etc.) and solving problems with applications from the material we will cover in class.

Course Grade: Your course grade will be based on the following.

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| Two in-class exams: | 50% (= 25% + 25%) |
| Comprehensive, two-hour final exam: | 25% |
| Quizzes: | 20% |
| Homework: | 5% |

Exam Dates: **Exam 1:** Wednesday October 3, 2018
 Exam 2: Wednesday November 14, 2018

Final Exam: Friday December 14, 10:15-12:15pm

Make-up policy: As per Mathematics Department policy, **there are no make-up exams or quizzes.** If you must miss an exam it will be made up with the relevant portion of the final exam. I will drop one of your lowest quiz scores.

Electronic devices: Phones, laptops and tablets are **not allowed to be out during class. Silence your electronic devices prior to coming to class.** Students who repeatedly violate this policy will be asked to leave the classroom.

Academic Integrity: Syracuse University's Academic Integrity Policy reflects the high value that we, as a university community, place on honesty in academic work. The policy defines our expectations for academic honesty and hold students accountable for the integrity of all the work they submit, Students should understand that it is their responsibility to learn about course-specific expectations, as well as about university-wide academic integrity expectations. The policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same work in more than one class without receiving written authorization in advance from both instructors. Under the policy, students found in violation are subject to grade sanctions determined by the course instructor and non-grade sanctions determined by the School or College where the course is offered, as described in the Violation and Sanction Classification Rubric. SU students are required to read an online summary of the University's academic integrity expectations and provide an electronic signature agreeing to abide by them twice a year during the pre-term check-in on MySlice. The Violation and Sanction Classification Rubric establishes recommended guidelines for the

determination of grade penalties by faculty and instructors, while also giving them discretion to select the grade penalty they believe most suitable, including course failure, regardless of violation level. Any established violation of this course may result in course failure regardless of violation level. **The use or availability of any electronic device during a midterm exam or final exam is a violation of the Academic Integrity Policy.** For more information about the policy, see: <http://academicintegrity.syr.edu>

Religious Observances Policy: Syracuse University's religious observances policy, found at http://supolicies.syr.edu/emp_ben/religious_observance.htm, recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty and staff to observe religious holy days 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 a 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 of class until the end of the second week of class.

Students with Disabilities: If you need accommodations for a disability, please contact the Office of Disability Services (ODS), <http://disabilityservices.syr.edu>, located in Room 309 of 804 University Ave., or call (315) 443-4498 for an

appointment to discuss your needs and the process of requesting accommodations. ODS is responsible for 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, **if you have a disability it is your responsibility to contact ODS as soon as possible.**

Inclement weather: In the event of extreme weather emergency conditions, instructions will be communicated to the University community: the entire university community is required to abide by such instructions.

Deadlines:

Add Deadline: Tuesday Sept. 4, 2018

Pass/Fail, or Audit Deadline: Monday, Sept. 10, 2018

Financial Academic/Drop Deadline: Monday, Sept. 17
(100% tuition adjustment)

Withdrawal Deadline: Friday, Nov. 16 (“WD” posts to transcripts)

