

Syllabus

MAT 375 - M004

Spring, 2018

Time: Monday and Wednesday, 2:15-3:35

Place: Room 100, Carnegie

Instructor: Will Wylie

Office: 206C Carnegie

Office hours: M 3:45-4:45, W 10-12 or by appointment.

Campus Phone: 315-443-1556.

Email: wwylie@syr.edu.

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

Prerequisites: MAT 295

Restrictions: Credit can not be given for both CIS 375 and MAT 375.

Description: In this course we introduce some of the fundamental principles underlying abstract mathematics including logic, set theory, mathematical induction, functions, and cardinality. The main activity of this course will be reading and writing proofs as opposed to calculation. Thus, you will probably find this class quite different from other lower-division math classes.

It will also be very hard to catch up if you miss class. I will not always follow the book or cover all of the material in the book. If you miss class, you must get the notes from another student - I will not provide notes for missed lectures.

Homework, Quizzes, and Worksheets: There will be homework sets collected weekly and weekly quizzes usually given on Wednesday at the beginning of class. We will also spend class time on worksheets which will be collected and graded. The lowest quiz score will be dropped. You may collaborate on homework but you must write up and hand in your own solutions. You may give each other hints, but collaboration does not include letting someone else copy your solution. If you get stuck on a problem, you should seek out help from me or from other students in the class.

A common comment of teaching evaluations of this course is "The homework was difficult because the lecture didn't provide examples that were similar to the homework." The main learning outcome of this course is to develop proof-writing skills. The only way to do this is to encounter many

different kinds of proofs. Since proof-writing will be a new skill for many students, this will sometimes be difficult. It will also involve more creative thought than math homework in other lower division courses.

Exams: There will be two midterm exams and a comprehensive final exam. The midterm exams are tentatively scheduled for

Exam 1 Wednesday, February 21
Exam 2 Wednesday, April 11

There are no calculators or electronic devices of any kind allowed during the exam. There will be no makeup exams. Any exam missed with a legitimate written excuse will be made up by giving extra weight to the final exam.

The Final Exam: Thursday, May 3 from 12:45 to 2:05pm.

All students must take the final exam at this time to pass the course.

Grading: Your grade will be calculated as follows:

<i>Category</i>	<i>Weight</i>
Homework/Worksheets	10%
Quizzes	20%
2 Exams (20% each)	40%
Final Exam*	30%

*The final exam may be given more weight if it demonstrates improved understanding.

Blackboard: Course materials and grades will be posted on Blackboard. Please check your grades on Blackboard regularly to ensure they have been recorded correctly.

Students with disabilities: If you believe that you need academic adjustments (accommodations) for a disability, please contact the Office of Disability Services (ODS), located in Room 309 of 804 University Avenue, visit the ODS website- <http://disabilityservices.syr.edu>, or call (315) 443-4498 or TDD: (315) 443-1371 for an appointment to discuss your needs and the process for requesting academic adjustments. ODS is responsible for coordinating disability-related academic adjustments and will issue students with documented Disabilities Accommodation Authorization Letters, as appropriate. Since academic adjustments may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

Syracuse University values diversity and inclusion; we are committed to a climate of mutual respect and full participation. My goal is to create learning environments that are useable, equitable, inclusive and welcoming. If there are aspects of the instruction or design of this course that result in barriers to your inclusion or accurate assessment or achievement, I invite any student to meet with me to discuss additional strategies beyond academic adjustments that may be helpful to your success.

Religious observances policy: Syracuse University's 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 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 no later than the end of the second week of classes** for regular session classes and by the submission deadline for flexibly formatted classes. Student deadlines are posted in MySlice under Student Services/Enrollment/My Religious Observances/Add a Notification.

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 holds students accountable for the integrity of all 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 pre-term check-in on MySlice. <http://academicintegrity.syr.edu>.

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 in this course may result in course failure regardless of violation level.

Copying homework solutions from any source, including the Internet, is plagiarism and is considered a violation.

Ally Statement: I have participated in the safer spaces training program through the LGBT center at Syracuse University. Please let me know if you use a different name than the one that shows up on my roster, and also let me know the pronouns that you use. I strive to use gender-neutral language in the classroom (e.g. your classmate, singular they), but I have old habits and I am not always successful. Feel free to correct me if I make a mistake.