

MAT 534 – INTRODUCTION TO ABSTRACT ALGEBRA - SPRING 2018

Instructor: Prof. D. Quinn, 306A Carnegie Hall. Phone: 443-1484 Email: dpquinn@syr.edu

Office Hours: Monday 12:45pm – 1:40pm, Wednesday 2:00pm – 3:00pm and Friday 11:40am – 12:35pm and by appointment. (Any changes will be announced in class and via email.) Please use these! Help is available and you can ask about anything you wish, not just the current material.

Course Description: Theory of groups, rings, and fields, including integers and polynomial rings. You will be writing proofs, and solving problems using the material.

Text: Contemporary Abstract Algebra, 8th ed., by Joseph A. Gallian, Cengage, 2012.

Mathematics Prerequisites: Mat 531.

Grading: Grades for the course will be determined by the total number of points accumulated on quizzes, homework, two midterm tests and a comprehensive final exam. Each midterm test will count 20%, the final 30%, homework 15% and quizzes 15%, toward your grade. The dates for exams are listed below.

Homework: Assignments will be given in class or via email. It is imperative that you attempt all assigned problems promptly – this is the best way to learn the material. Time will be spent at the beginning of each class period answering questions. Some problems (announced either in class or via email) for handing in and these will be graded. You are encouraged to work together on homework, but each student **must write up a solution independently**. Homework is due in class on the date given. No late homework will be accepted! Solutions will appear on blackboard.syr.edu soon after homework is collected.

Class Attendance: It is important to attend class and participate. In particular this means that you must disconnect from any electronic device that causes distractions! Research shows that humans do not do well when they try to multitask! If you miss class, you should get the notes from another student and make sure that you find out about any announcements made in class. **Cell Phones must be silenced and put away during class.**

Quizzes: There will be approximately 8 short quizzes on Fridays during the semester. Quizzes will be based on the material and homework since the most recent quiz or exam. To allow for emergencies, you may miss up to two quizzes during the semester. If you take more than the minimum required your lowest score(s) will be dropped.

Exams: The dates for exams are as follows

Exam I	Friday, February 22 nd
Exam II	Friday, April 12 th
Final Exam	Friday, May 3 rd 8:00 am – 10.00 am

There will be no make-ups for midterm exams. If you have an excused absence, the missing score will be made up from the corresponding portion of the final exam. For an absence to be excused, you must let your instructor know as soon as possible, preferably before the test. Upon returning to class you need to provide evidence that the absence was unavoidable – for example a doctor's note if you are sick, or a letter from a Syracuse University coach if you have a team commitment.

Course Learning Outcomes: Learn elementary facts about algebraic structures on sets and their properties. Be able to read and write proofs, applying the rules of mathematical logic. Connect the material to real world problems.

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.

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. For more information and the complete policy, see <http://class.syr.edu/academic-integrity/>

Students with disabilities. If you believe that you need academic adjustments (accommodations) for a disability, please contact the Office of Disability Services (ODS), <http://disabilityservices.syr.edu>, located in Room 309 of 804 University Avenue, 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.

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 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.