

MAT 313 ABSTRACT ALGEBRA

FALL 2015

1.

Instructor: Lisa Berger

Office: Math 4-105

Email: lbrgr@math.sunysb.edu

Web page: <http://www.math.sunysb.edu/~lbrgr/>

Current Office Hours:

Tuesdays: 10:15-11:15 in 4-105

Thursdays: 10:00-11:00 in P-143

Thursdays: 1:00-2:00 in 4-105

By appointment. Please send email to schedule.

Office hours may be adjusted to accommodate the instructor's schedule and/or student needs. Students unable to meet during scheduled office hours are encouraged to schedule an appointment with the instructor.

Grader: Erik Gallegos Baños

Email: erik.gallegosbanos@stonybrook.edu

2.

2.1. General Information. This is an introductory course in algebra, a requisite tool in advanced mathematics and a beautiful field of its own. We will study the theory of groups, rings and fields, focusing primarily on the material in Parts 2 through 4 of the textbook. A primary emphasis of this course will be on understanding definitions, proof and writing mathematics. You should be prepared to work through a lot of problems, prove your results and write your work clearly and accurately. Course information will be posted regularly to the course web page: <http://www.math.sunysb.edu/~lbrgr/MAT313Fall12015.html>. Students are expected to attend class regularly and are responsible for all announcements made in class or posted to the course page.

2.2. Pre-requisites. A *minimum* pre-requisite for this course is completion of MAT 200 and at least one upper-division mathematics course involving proof. In particular, mastery of the material in Section 0 of the textbook is assumed.

2.3. Textbook.

We will be using the eighth edition of *Contemporary Abstract Algebra* by Joseph Gallian. You may be able to find some supplemental on-line material, such as practice quizzes, on Gallian's home page.

2.4. Homework/Class Work/Quizzes.

Homework is an essential component of the course. Homework will be assigned and collected regularly, and selected problems will be graded. Homework is due at the beginning of the class period, and late homework will not be accepted. Announced and/or unannounced quizzes may be given, and there may be assignments completed and collected during class. Students are expected to be present for class, and missed quizzes or

classwork may not be completed for credit. The lowest 2 scores in the homework/classwork/quiz category will be dropped.

A significant part of doing mathematics is *communicating* mathematics. Homework is expected to be clear and grammatically correct, in addition to mathematically accurate. Homework not meeting this criteria may be returned ungraded.

You are encouraged to work together, but submitted written assignments must be your own writing and represent your own understanding. If you consult any outside sources, these must be cited. If you need clarification on these statements, please ask.

2.5. Exams.

There will be two midterms exams and a final exam. Exam 1 is *tentatively* scheduled for Tuesday, September 29. Exam 2 is *tentatively* scheduled for Tuesday, November 3. The **final exam** is as scheduled by the University: Wednesday, December 9, 5:30 - 8:00 pm.

2.6. **Final Grades.** Your final grades will be based on the following:

- (1) Exam 1: 20%
- (2) Exam 2: 20%
- (3) Homework/Quizzes/Classwork: 30%
- (4) Final Exam: 30%

2.7. Academic Integrity.

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instance of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html. If you do not understand the policy on academic integrity, please ask for clarification.

2.8. **Disability Support Services.** If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, room 128, (631) 632 – 6748 or <http://studentaffairs.stonybrook.edu/dss/>. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website: <http://www.stonybrook.edu/ehs/fire/disabilities/>

2.9. **Critical Incident Management.** Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students' ability to learn.