

Math 402-01

Modern Algebra II

Spring 2020

MWF 09:40 - 10:40 CW 209, T: 08:30 - 09:55 CW 209

Instructor: Dr. Hung P. Tong-Viet
Office: WH 108
Office Hours: MF 11 : 00 – 12 : 30 pm
T 4 : 15 – 5 : 15 pm and by appointment.
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Textbook Algebra in action. A course in groups, rings, and fields by S. Shahriari. Pure and Applied Undergraduate Texts, 27. American Mathematical Society, Providence, RI, 2017.

Prerequisite C or better in MATH 401.

Course Content We will cover some basic ring theory, polynomial rings, field theory, and Galois theory.

Course Expectation

This course is a 4-credit course, which means that in addition to the scheduled lectures/discussions, students are expected to do at least 9.5 hours of course-related work each week during the semester. This includes things like: completing assigned readings, participating in lab sessions, studying for tests and examinations, preparing written assignments, completing internship or clinical placement requirements, and other tasks that must be completed to earn credit in the course.

Course Description Rings, polynomial rings, fields and Galois theory.

Exams There will be **3** exams and one final exam. The exams are tentatively scheduled for

February 25, March 24 and April 28

Date and time for the final exam will be announced when it is available. Please check the official Final Exam Schedule.

Exam Make-up Policy If you miss an exam because of an approved university absence, you may place the weight of the exam on the final exam or you may take a make-up exam. All other absences will result in a zero score. Exams should be made up within one week.

Homework Homework will be assigned on a weekly basis and will be collected on **Wednesdays**. You are allowed to collaborate with others but you must turn in your own work. Collaborative work should be explicitly acknowledged in the handed-in homework. No late homework will be accepted. Outside references for material used in the solution of homework should be fully disclosed. References to results from the textbook and/or class

notes should also be included. Students will be expected to put homework problems up on the board on a regular basis.

Quizzes Several short quizzes will be given throughout the semester, mostly on Friday. There is no make-up quiz but I will drop some of your lowest score quizzes at the end of the semester.

Attendance and Class Participation You are expected to be in class each day. If missing a class is unavoidable, you are responsible for all material covered and all announcement and assignments made during your absence. Excessive absences will lower your course grade.

Students are also expected to complete assigned reading and to participate in class discussions.

Cellphones All cellphones, pagers and other noise-making devices are required to be turned off before the start of class.

Grading Scheme

Exam 1	100 points
Exam 2	100 points
Exam 3	100 points
Homework/presentations	100 points
Quizzes	50 points
Final exam	150 points
Total	600 points

Academic Honesty Cheating of any kind will not be tolerated. If you are caught cheating you will receive a zero on the assignment or exams. Additionally, depending on the severity of the cheating, you may receive an F in the course. Furthermore, you will be subject to the University's disciplinary action.

Important Dates

- Add/Drop deadline: **Monday, February 3, 2020**
- Withdrawal deadline: **Tuesday, March 31, 2020**

Disability-related Equal Access Accommodations

Students needing accommodations to ensure their equitable access and participation in this course should register with Services for Students with Disabilities (SSD) office as soon as they're aware of their need for such arrangements. Please visit the SSD website (www.binghamton.edu/ssd) for more detailed information. The office is located in the University Union, room 119.

For students already registered with SSD, please make an appointment to meet and discuss the implementation of your authorized accommodations.