

MWF 09:40 - 10:40 WH G002, T: 8:30 - 9:55 WH G002/ DL

Instructor: Dr. Hung P. Tong-Viet
Office: WH 108
Office Hours: T 4 : 30 – 05 : 30 pm and W 2 : 00 – 04 : 00 pm
and by appointment.
E-mail: htongvie@binghamton.edu
Course webpage: <http://people.math.binghamton.edu/tongviet/Math402.html>

Lectures and office hours For lectures on MWF, we will meet in person in Whitney Hall, room G002, from 9:40-10:40 am. For Tuesdays, we will meet online via zoom, from 8:30-9:55, for practice. We will also use Tuesdays for in person exams.

Office hours will be held online via zoom. You can also contact me via email to setup a conference call using zoom if needed.

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 two tests and one final exam. The tests are tentatively scheduled for

March 9 and April 13

The tests will be proctored via zoom for remote learners and in person for other students. Students are required to turn on their webcams during the online exams and they may be asked to explain their answers via zoom.

The final exam will be held in-person in the exam period (5/19 – 5/21). Date and time for the final exam will be announced when it is available. Please check the official Final Exam Schedule. Note that students who live on campus or students who do not live on campus, but are enrolled in at least one in-person class are required to take in-person exams.

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.

I will create a shared folder on BMail Drive (available in mybinghamton.edu) for each student. Students are required to scan their work using any scanning softwares or use Tex/Latex to produce a pdf file and upload to the shared drive. **All files must be uploaded in pdf with the file name: LastName – Assignment – Number.pdf.** (For example, Tongviet – Homework – 1.pdf.)

Quizzes There will be pop-up quizzes. 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 either online or in person. 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. Students may be expected to put homework problems up on the board on a regular basis.

Students should arrive for class at the start of the classes, not before, to reduce population density.

For in-person classes, face masks that cover the nose and mouth tightly are **REQUIRED AT ALL TIMES** during classes. Thus no food nor drink is allowed during in-person classes.

Grading Scheme

Test 1	20%
Test 2	20%
Homework	20%
Quizzes	15%
Final exam	25%

Academic Honesty The shift to remote and hybrid teaching due to the COVID-19 pandemic has required that both instructors and students make changes to their normal working protocols for courses. Students are asked to practice extra care and attention in regard to academic honesty, with the understanding that all cases of plagiarism, cheating, multiple submission, and unauthorized collaboration are subject to penalty. Students must properly cite and attribute all sources used for papers and assignments. Students may not collaborate on exams or assignments, directly or through virtual consultation, unless

the instructor gives specific permission to do so. **Posting an exam, assignment, or answers to them on an online forum (before, during, or after the due date), in addition to consulting posted materials, constitutes a violation of the university's Honesty policy. Likewise, unauthorized use of live assistance websites, including seeking "expert" help for specific questions during an exam, can be construed as a violation of the honesty policy.** All students should be familiar with the University's Student Academic Honesty Code

Important Dates

- Add/Drop deadline: **Wednesday, February 24, 2021** at 11:59 pm
- Grade option change deadline: **Tuesday, April 13, 2021** at 4:30 pm
- Withdrawal deadline: **Tuesday, May 18, 2021** at 4:30 pm

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.

University policies concerning in-person classes

- **Face covering and physical spacing:**
 - For in-person courses, current rules require everyone to wear a face covering correctly so that it completely covers both the nose and mouth tightly at all times in the classroom, and to maintain 6-foot spacing in classroom seating. A face shield is not an acceptable substitute. (If you forget your face covering or it does not meet these requirements, you will be asked to leave the room immediately. You may not return until you meet the requirement.)
 - If the student misses a graded assessment due to being asked to leave the classroom for not having a proper face covering. The student will receive a zero on the assignment.
 - If students are not seated in a manner that meets the necessary spacing requirements, the instructor will reseat one or more students to comply with the requirements. It is at the instructor's discretion whom to reseat.
 - Failure to comply with these requirements constitutes a public health risk to everyone in the learning environment and disrupts the class.
 - If a student does not comply with the requirements and refuses to wear their face covering properly or to leave the classroom when directed, or to follow instructions for reseating when directed by the instructor, the instructor will immediately cancel the remainder of the class session and inform the dean's office, which will work with the Student Records office to issue a failing grade (F) for the course regardless of when in the semester the incident occurs. The dean's office will also inform the Office of Student Conduct. This penalty,

along with other policies that affect grading, should be explicitly stated in the syllabus.

- If a student's refusal to comply is a second offense, the Office of Student Conduct may recommend dismissal from the University.
 - If the rules for health and safety measures change, the campus will be notified and the new requirements will take effect.
- **Student Illness**

If you become ill or are asked to go into quarantine/isolation, you are not allowed to attend class in person. You should immediately notify the instructor and plan to participate online if you are able to do so while following instructions from health providers and/or health authorities. Further information on COVID-19 symptoms and next steps are available here: [Health](#). Students who exhibit symptoms should call the Decker Student Health Services Center at 607 – 777 – 2221 first.