

MATHEMATICS 3P13 (Winter 2019)

ABSTRACT ALGEBRA

Professor: Dr. Yuanlin Li
Room: MC J422
Email: yli@brocku.ca
Home Page: <http://spartan.ac.brocku.ca/~yli/3P13/3p13w19.html>

Lectures: T: 9:30 - 11:00 am (WH311); R: 11:30 - 13:00 (WH311)
Tutorials: Friday:11:00 - 12:00 (MCJ404) (Start from second week)

Office Hours: Tuesday 1:40 - 2:30 pm and Thursday: 10:30 - 11:20 am or by appointment

Textbook: *Contemporary Abstract Algebra*, 9th Edition, by J.A. Gallian, Brooks/Cole Cengage Learning, New York, 2015

Prerequisite: MATH 3P12

Marking Scheme:

Four Assignments:	30%
Midterm exam:	30%
Final exam:	40%

Course Content: This is a course of abstract algebra and it covers the following topics:

Further topics in group theory: homomorphisms and isomorphism theorems, structure of finite Abelian groups. Rings and ideals; polynomial rings; quotient rings. Division rings and fields; field extensions; finite fields.

Exams and Assignments:

Exam	Date	Mark
Midterm	Tuesday, Mar. 5	30%
Final	TBA	40%

Assignment #	Due Date	Mark
1	Friday, Jan. 25	7.5%
2	Friday, Feb. 15	7.5%
3	Friday, Mar. 15	7.5%
4	Friday, Apr. 5	7.5%

Notes:

(1) The midterm exam will be of 60 minutes duration and held during the regular lecture time in our classroom. The final exam will be of 2.5 hours duration. **No make up midterm will be arranged.** If a student misses the midterm exam for a very good reason (proof required), the weight will be added to the final exam. To provide a medical certificate, a student should go to “http://www.brocku.ca/webfm_send/1423”, download a copy of the medical form and fill out it properly.

(2) To pass the course both a passing mark and a score of at least 30 % on the final are required.

(3) The assignments are due in the assignment box (outside Room J434) at **4 pm on the due dates. No late assignments will be accepted.** The solution to each assignment will be placed on reserve in the library shortly after the due date. Please attach a cover page to each of your assignments. This should bear **course name and number, student name, student number and assignment number.** A sample cover page is posted on the course web page.

(4) **On Plagiarism:** You may discuss the assignment problems with other students. However, **your final submitted work must be your own.** Any evidence of copying will result in a mark of 0.

(5) **Withdrawal Date:** Friday, March 8, 2015 is the **last date** for withdrawal from the course **without academic penalty.**

(6) **Reading Week – No Classes:** Feb. 18–22.