

Department of Mathematics and Statistics
MATH 3031
(CRN 11702)
Abstract Algebra I
Fall 2018

1 General information

Lectures: MWF 10:35 – 11:25 Studley LSC – Common Area C220
Instructor: Neil J. Ross neil.jr.ross@dal.ca
Office hours: MW 15:00 – 16:30 Chase building room 213

2 Course description

Groups, subgroups, permutation groups, cosets, direct products, fundamental theorem of finitely generated abelian groups, simple groups, group homomorphisms, factor groups, isomorphism theorems of groups, series of groups, Sylow theorems and applications. Additional topics may include free groups, group actions, and groups in Topology.

3 Prerequisites

MATH 2040 or MATH 2135.

4 Course materials

- *A First Course in Abstract Algebra* by John B. Fraleigh.

5 Course assessment

5.1 Assignments

Weekly assignments will be posted on BrightSpace.

5.2 Examinations

The midterm will take place in class on Friday October 26th 2018. The final examination will last 3 hours. It will be held during the exam period and will be scheduled by the registrar. Textbooks, course notes, and calculators are not permitted during exams.

5.3 Grading scheme

The final grade will be computed according to the grading scheme below.

Assignements	25%
Midterm	25%
Final	50%

The conversion of numerical grades to Final Letter Grades follows the Dalhousie Common Grade Scale given below.

$A+$	(90-100)	$B+$	(77-79)	$C+$	(65-69)	D	(50-54)
A	(85-89)	B	(73-76)	C	(60-64)	F	(<50)
$A-$	(80-84)	$B-$	(70-72)	$C-$	(55-59)		

6 Policies and Resources

6.1 Policy on assignments and exams

Assignments must be handed in at the *beginning* of class on the due date. Late assignments will not be accepted unless a prior arrangement was made. Similarly, missed exams will be given a failing grade unless a prior arrangement was made.

6.2 Further policies and resources

A document containing Dalhousies policies on plagiarism, accessibility, and a number of other important issues has been posted to BrightSpace.

7 Course content

The course will cover chapters I, II, III, and VII of the textbook.