



Mathematics 230 Modern Algebra Winter 2010

Instructor: Kseniya Garaschuk
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Timetable:

<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>
Math 230 2:30-4:10pm Y219	Math 230 2:30-4:10pm Y219	Math 230 2:30-4:10pm Y219
Office hour 4:30-5:45pm Ewing258		Office hour 4:30-5:45pm Ewing258
Math 109 6:00-8:20pm Y201		Math 109 6:00-8:20pm Y201

Important Dates:

January 6	First day of class
January 20	Tuition fee deadline
February 18-19	Reading Break (no class)
March 10	Withdrawal date deadline
April 2	Good Friday (no class)
April 5	Easter Monday (no exams)
April 10	Last day of class
April 12-17, 19-20	Final Exam Period

Calendar Description: A first course in proofs and theoretical mathematics for mathematics, physics and computer science students. Topics include: sets, mappings, integers including postulates, induction, factorization and congruencies, groups including permutations, rings, integral domains, fields and polynomials and their factorization. [4 Credits]

*(Source: Camosun College 2008-2009 Calendar
www.camosun.bc.ca/learn/calendar/current/web/math.html)*

Prerequisites: B+ in MATH 110 or MATH 126.

UVic Transfer: A passing grade (D or higher) in this course will earn you transfer credit for UVic's MATH 233C "Introduction to Algebra" course.

Required Textbook: *Modern Algebra* by Clive Reis, Camosun College Printshop, 2009.

Course Content:
Chapter 1 Logic and Proofs
Chapter 2 Set Theory
Chapter 3 Cartesian Products, Relations, Maps, and Binary Operations
Chapter 4 The Integers
Chapter 5 Elementary Properties of Groups
Chapter 6 Further Properties of Groups
Chapter 7 The Symmetric Groups
Chapter 8 Rings, Integral Domains, and Fields
Chapter 9 Polynomial Rings

Math Labs: Ewing 224 & 342: These drop-in centres are freely available for your use to work on math homework and to seek help from the tutor on staff (see hours posted on door).

Calculator Policy: As per Math Department policy, the only calculator permitted for use on tests and the final exam is the Sharp EL-531W scientific calculator. No other make/model of calculator is permitted, nor are other electronic devices such as cell phones, PDAs, laptop computers, MP3 players, electronic translators, etc.



Assignments: There will be several assignments to be handed in for marking. Talk to your instructor if you cannot hand an assignment in on its due date.

Tests: There will be two term tests, Test 1 covering ch. 1-4 and Test 2 covering ch. 5-7. There will be no make up tests. If you miss a test, talk to your instructor.

Final Exam: A comprehensive final exam covering ch. 1-9 will take place during the final exam period of April 12-17, 19-20. The specific date, time, and location will be announced sometime in February. You must write the final exam at this time as per Camosun College's policy on final examinations. See www.camosun.bc.ca/learn/calendar/current/pdf/academic.pdf.

Grade Calculation: The final grade will be calculated according to the following breakdown:

Assignments:	25%
Two Term Tests:	25%
Final Exam:	50%

Alternatively, you have a 30% term and 70% final option if your term work is satisfactory.

Grade Scale: Final letter grades are assigned as follows:

0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100
F	D	C	C+	B-	B	B+	A-	A	A+

For information on Camosun College's grading policy, see Sec E-1.5 on the policy webpage www.camosun.bc.ca/policies/policies.html.