Mathematics 230 Modern Algebra Winter, 2005

Instructor: Office: E-mail: Website: Telephone: Schedule: George Ballinger Ewing 256 <u>ballinger@camosun.bc.ca</u> <u>www.camosun.bc.ca/~ballinge/</u> 370-3116

(click the Math 230 link for course information)

Time	Monday	Tuesday Wednesday		Thursday	Friday	
10:30 am - 11:20 am	Math 072-01 E346					
11:30 am - 11:50 am	Lunch	Lunch Lunch		Lunch	Lunch	
11:50 am - 12:20 pm	Office	fice Office Offic		Office	Office	
12:30 pm - 1:20 pm	Math 072-02 E346					
1:30 pm - 2:20 pm	Office	Office		Office		
2:30 pm - 3:20 pm	Math 230	Math 230		Math 230		
3:30 pm - 4:20 pm	1217	1217		1217		

Important Dates:	January 10	First day of class					
	January 24	Tuition fees due date					
	February 10	Reading Break (no class)					
	March 14	Withdrawal date deadline					
	March 28	Easter Monday (no class)					
	April 14	Last day of class					
	April 18-26	Final Exam Period (specific date, time, and location TBA in Febr					
Calendar Description:	A first course in proofs and theoretical mathematics for mathematics, physics and computer science students. Topics: sets, mappings, integers including postulates, induction, factorization and congruencies, groups including permutations, rings, integral domains, fields and polynomials and their factorization. [4 Credits] (<i>Source:</i> Camosun College 2004-2005 Calendar)						
Prerequisites:	A– in MATH 110 or B in MATH 111 or C+ in MATH 220.						
Required Textbook:	Modern Algebra by Clive Reis, Camosun College Printshop, 2005.						

Course Content:	Chapter 1 Logic and Proofs									
	Chapter 2	2 Set Theory								
	Chapter 3	ter 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									
	Chapter 10 Rational, Real, and Complex Numbers									
	Chapter 1	1 Lati	n Squares	S						
Assignments:	Periodic assignments will be given for homework to be handed in. Notices of									
	assignments and due dates will be posted on the course website.									
Study Time:	It is recommended that approximately 8-10 hours per week be spent studying for this									
	course outside of class time.									
Math Lab:	b: Ewing 224: This drop-in centre is freely available for your use to work on math homework and to seek help from the tutor on staff.								l	
Calculator Policy:	Calculators are not permitted on term tests or the final exam, nor are electronic devices									
	such as cell phones, PDAs, laptops, electronic translators, etc.									
Grade Calculation:	The final grade will be calculated according to the following breakdown:									
	Assignments: 20%									
	Two Term Tests: 30%									
	Comprehensive Final Exam: 50%									
Grade Scale:	Final letter grades are assigned as follows:									
		-								
	0-49	50-59	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-100
	F	D	С	C+	B-	В	B+	A–	А	A+