CAMOSUN COLLEGE
MATHEMATICS 113
WINTER 2005

INSTRUCTOR: (Mrs.) Jill Britton

OFFICE: E246

OFFICE HOURS: 10:30-1:20 *(daily)*

TEXTS: FINITE MATHEMATICS, 7th Edition (S. T. Tan)
Camosun Bookstore: $110.00

SUPPLEMENTARY MATERIAL (PART 2) TO ACCOMPANY FINITE MATHEMATICS, 7th Edition (Jill Britton)
Camosun Bookstore: $17.75

MATERIALS: Compulsory Materials for AInvestigating Patterns@ - Camosun Bookstore: $36
CARD MUST BE PURCHASED & SUBMITTED TO YOUR INSTRUCTOR BY JAN 21

COMPUTER LAB: Each student is required to have a Camosun account to access the General Purpose Labs. An account can be created while applying for a Student ID Card in the Library or in the General Purpose Labs. Accounts take 24 hours to fully activate.

EVALUATION: Term Mark: (75 marks)

Each student's numerical term mark will be based on five (5) class tests.

Dates:
- Jan 28 [1.1 - 1.2, 2.1 - 2.3]
- Feb 14 [2.4 - 2.6, 3.1 - 3.3]
- Mar 11 [limits, tangent line, derivative, basic rules]
- Mar 21 [rules, curve sketching, max/min (part 1)]
- Apr 6 [max/min (part 2), integration, area]

Investigating Patterns: (25 marks)

This material will be covered during the weeks of Feb 7, Feb 14, Feb 21, Mar 28, Apr 4, and Apr 11. Assessment will be based on a portfolio of assigned work (due Mar 4) and on 3-D model construction (accessed during final exam). Attendance is compulsory. One mark will be deduced for each absence from class.

Comprehensive (3 hr) Final Examination: (75 marks)

Date: to be announced

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Should a student fail to write a test(s), a mark of zero will be awarded for that test(s).

Individual students will not be awarded a passing grade until they have completed the AExploring Patterns@ component satisfactorily. The numerical mark awarded shall be the **SUM** of the mark on AExploring Patterns@ plus the **greater** of:

(1) the **average** of the term and final exam marks
(2) the final exam mark

Letter grades will be awarded as follows:
95-100 ***and*** greater than 90 average during term (A+), 90-94 (A), 85-89 (A-), 80-84 (B+),

75-79 (B), 70-74 (B-), 65-69 (C+), 60-64 (C), 50-59 (D), < 50 (F)

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MATH 113 ! SCHEDULE OF CLASSES ! WINTER 2005

Week of Jan 10	M	! Introduction / Appendix to Student Notes A-1 to A-3
	T	! 1.1 / 1.2
	W	! 1.2
	H	! 1.2
	F	! 2.1 *(omit applications)*
Week of Jan 17	M	! 2.2 *(student notes to end of p 13)*
	T	! 2.2 *(student notes to end of p 15)*
	W	! 2.2 *(student notes to end of p 18)*
	H	! 2.2 *(applications)*
	F	! 2.3
Week of Jan 24	M	! 2.4
	T	! 2.4 *(applications)*, 2.5
	W	! 2.5
	H	! 2.5 *(matrix representation)*, 2.6
	F	! **TEST 1 [1.1 - 1.2, 2.1 - 2.3]**
Week of Jan 31	M	! 2.6
	T	! 2.6
	W	! Linear Inequalities *(Appendix A-5)* / 3.1
	H	! 3.1
	F	! 3.2 / 3.3
Week of Feb 7	M	! 3.2 / 3.3 *(applications)*
	T	! 3.2 / 3.3 *(applications)* / Symmetry & Polygons Introduction
	W	! Symmetry / Polygons
	H	! **READING BREAK (College Closed)** F
Week of Feb 14	M	! **TEST 2 [2.4 - 2.6, 3.1 - 3.3]**
	T	! Paper Polygons / Angle Measures / Tessellations
	W	! More On Tessellations
	H	! Escher Film / Template
	F	! Rubber Stamp
Week of Feb 21	M	! Ink Print
	T	! Pop-Up Sponge Jigsaw Puzzle / Tessellating Art
	W	! Tessellation Software

H ! Appendix A-4 / Intro to Calculus / Functions
F ! Intro to Limits / Theorems on Limits

Week of Feb 28	M	! Limits Involving Quotients
	T	! Limits Involving Quotients
	W	! Tangent Lines
	H	! Tangent Lines
	F	! Derivative **PORTFOLIO DUE**
Week of March 7	M	! Derivative
	T	! Basic Rules
	W	! Basic Rules / Higher Order Derivatives
	H	! Curve Sketching
	F	! **TEST 3 (to end of Basic Rules)**
Week of March 14	M	! Curve Sketching
	T	! Curve Sketching
	W	! Max/Min Applications (#1-3)
	H	! Max/Min Applications (#3-7) F
Week of March 21	M	! **TEST 4 [RULES, CURVE SKETCHING, MAX/MIN #1-7]**
	T	! Antiderivatives and Indefinite Integrals
	W	! Definite Integrals / Classic Graphs *(Appendix A-6 to A-9)*
	H	! Area
	F	! **GOOD FRIDAY (COLLEGE CLOSED)**
Week of March 28	M	! **EASTER MONDAY (COLLEGE CLOSED)**
	T	! Area
	W	! Area / FINAL EXAM OUTLINE
	H	! Regular Polyhedra
	F	! Euler=s Formula / Materials / Applications
Week of April 4	M	! Semi-Regular Polyhedra
	T	! Polyhedra Recreations
	W	! **TEST 5 [MAX/MIN #8-11, INTEGRATION, AREA]**
	H	! **CLASS CANCELLED**
	F	! **CLASS CANCELLED**
Week of April 11	M	! Unit Origami
	T	! Unit Origami / Bubbles / Kite Introduction
	W	! Tetrahedron Kite
	H	! Icosahedron Globes / Geodesics / Buckyball / Kaleidocycles
	F	! Kite Workshop Orientation