CAMOSUN COLLEGE MATHEMATICS 113 WINTER 2004

INSTRUCTOR: (Mrs.) Jill Britton

OFFICE: E246

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

 TEXTS:
 FINITE MATHEMATICS, 7th Edition (S. T. Tan)

 Camosun Bookstore: \$97.50 (new edition / used copies may be available)

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

 MATERIALS:
 Compulsory Materials for Alnvestigating Patterns@ - Camosun Bookstore: \$36

 CARD MUST BE PURCHASED & SUBMITTED TO YOUR INSTRUCTOR BY JAN 16

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: <u>Term Mark</u>: (75 marks)

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

Dates: Jan 23 [1.1 - 1.2, 2.1 - 2.3]

Feb 6 [2.4 - 2.6, 3.1 - 3.3]

Mar 5 [limits, tangent line, derivative, basic rules]

Mar 19 [rules, curve sketching, max/min (part 1)]

Mar 26 [max/min (part 2), integration, area]

Investigating Patterns: (25 marks)

This material will be covered during the weeks of Feb 2, Feb 9, Feb 16, Mar 22, Mar 29, and Apr 5. Assessment will be based on a portfolio of assigned work (due Mar 12) and on 3-D model construction (accessed during final exam). Attendance is compulsory.

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

Date: to be announced

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)

MATH 113 ! SCHEDULE OF CLASSES ! WINTER 2004

Week of Jan 5	 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 12	 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 19	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 26	M ! 2.6 T ! 2.6 W ! Linear Inequalities (Appendix A-5) / 3.1 H ! 3.1 / 3.2 (introductory application) F ! 3.2 / 3.3	
Week of Feb 2	! 3.2 / 3.3 (applications) ! 3.2 / 3.3 (applications) ! Symmetry / Polygons ! Paper Polygons / Angle Measures / Tessellations ! TEST 2 [2.4 - 2.6, 3.1 - 3.3]	
Week of Feb 9	 M ! More On Tessellations T ! Escher Film / Template W ! Rubber Stamp H ! READING BREAK (College Closed) F ! READING BREAK (College Closed) 	
Week of Feb 16	 ! Ink Print ! Pop-Up Sponge Jigsaw Puzzle / Tessellating Art ! Tessellation Exploration ! Appendix A-4 / Intro to Calculus / Functions 	

F ! Intro to Limits / Theorems on Limits

Week of Feb 23	 M ! Limits Involving Quotients T ! Limits Involving Quotients W ! Tangent Lines H ! Tangent Lines F ! Derivative 	
Week of March 1	 M ! Derivative / Basic Rules T ! Basic Rules W ! Basic Rules H ! Basic Rules / Higher Order Derivatives F ! TEST 3 (to page 38) 	
Week of March 8	 M ! Curve Sketching T ! Curve Sketching W ! Curve Sketching H ! Max/Min Applications F ! Max/Min Applications 	PORTFOLIO DUE
Week of March 15	 M ! Max/Min Applications T ! Max/Min Applications W ! Antiderivatives and Indefinite Integrals H ! Definite Integrals / Classic Graphs (Appendix F ! TEST 4 [RULES, CURVE SKETCHING, MA 	(A-5 to A-9) X/MIN]
Week of March 22	 M ! Area T ! Area W ! Area / Final Exam Outline H ! Regular Polyhedra F ! TEST 5 [MAX/MIN, INTEGRATION, AREA] 	I
Week of March 29	 M ! Euler=s Formula / Materials / Applications T ! Polyhedra Recreations W ! Unit Origami H ! Unit Origami / Bubbles / Kite Introduction F ! Tetrahedron Kite 	
Week of April 5	 M ! Semi-Regular Polyhedra T ! Icosahedron Globes / Geodesics / Buckyball W ! FINAL EXAM OUTLINE H ! Escher Video / Kite Workshop Orientation F ! GOOD FRIDAY (college closed) 	/ Kaleidocycles