

**CAMOSUN COLLEGE
MATHEMATICS 112
FALL 2004**

INSTRUCTOR: (Mrs.) Jill Britton

OFFICE: E246

OFFICE HOURS: 9:30-10:20 and 11:30-12:20 (*daily*)

TEXTS: FINITE MATHEMATICS, 7th Edition (S. T. Tan)
Camosun Bookstore: \$97.50
SUPPLEMENTARY MATERIAL TO ACCOMPANY FINITE MATHEMATICS,
7th Edition (Jill Britton)
Camosun Bookstore: \$15.75

CALCULATOR: Each student must possess a **CASIO** model **fx-300MS** scientific calculator.
Camosun Bookstore: \$20.95 Office Depot: \$16.97 Staples: \$19.96

MATERIALS: Compulsory Materials for "Investigating Patterns" (\$36)
CARD MUST BE PURCHASED BY SEPT 30 / HAND IN TO YOUR INSTRUCTOR

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:	Sept 24	[Symbolic Logic, 6.1]
	Oct 8	[6.2 - 6.4]
	Nov 12	[7.1 - 7.5 to <i>Tree Diagrams</i>]
	Nov 26	[Tree Diagrams, 8.1 - 8.3]
	Dec 3	[8.4 - 8.6]

Investigating Patterns: (25 marks)

This material will be covered during the weeks of Oct 11, Oct 18, Oct 25, Nov 25, and Dec 2. Assessment will be based on a portfolio of class and assigned work. Attendance is compulsory.

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

Date: Examination Period (December 13-18 & 20-21)

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 "Investigating Patterns" component satisfactorily. The numerical mark awarded shall be the **SUM** of the mark on "Investigating 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 112 ! SCHEDULE OF CLASSES ! FALL 2004

Week of Sep 6	M ! LABOUR DAY (College Closed) T ! General Introduction W ! A1 H ! A2 F ! A2 / A3
Week of Sep 13	M ! A3 T ! A4 W ! A4 / A5 H ! A5 F ! A5 / Using Valid Argument Forms
Week of Sep 20	M ! Using Valid Argument Forms / 6.1 T ! 6.1 W ! 6.1 / 6.2 H ! 6.2 F ! TEST 1 [Symbolic Logic, 6.1]
Week of Sep 27	M ! 6.2 / 6.3 T ! 6.3 W ! 6.3 / 6.4 (P: #1-5) H ! 6.4 (P: #6-13) F ! 6.4 (P: #14-18 / C: #1)
Week of Oct 4	M ! 6.4 (C: #2-11) T ! 6.4 (C: #12-17) W ! 6.4 (C: #18) H ! CLASS CANCELLED (Speaker at NW Math Conference) F ! TEST 2 [6.2 - 6.4]
Week of Oct 11	M ! THANKSGIVING (College Closed) T ! Sieve of Eratosthenes / Magic Squares W ! Clock (Mod) Arithmetic H ! Golden Ratio F ! Fibonacci Sequence
Week of Oct 18	M ! Binary Sequence / Pascal's Triangle T ! Patterns in Pascal's Triangle W ! The Conics H ! The Conics / Moire Patterns F ! Line Designs / Curve Stitching

Week of Oct 25 M ! Curves of Constant Width
 T ! Cycloids
 W ! Fractals
 W ! 7.1 / 7.2
 H ! 7.2 / 7.3

Week of Nov 1 M ! 7.3
 T ! 7.4
 W ! 7.4
 H ! 7.5 (#1-5)
 F ! 7.5 (#6-8)

Week of Nov 8 M ! 7.5 (#9-11)
 T ! 7.5 (#12-14,16)
 W ! 8.1
 H ! **REMEMBRANCE DAY (College Closed)**
 F ! **TEST 3 [7.1 - 7.5 (to Tree Diagrams)]**

Week of Nov 15 M ! 8.2
 T ! 8.2
 W ! 8.3
 H ! 8.3 / 8.4
 F ! 8.4

Week of Nov 22 M ! 8.4 / 8.5
 T ! 8.5
 W ! 8.5 / 8.6
 H ! 8.6
 F ! **TEST 4 [Tree Diagrams, 8.1 - 8.3]**

Week of Nov 29 M ! 8.6
 T ! Test 5 review
 W ! Topological Equivalence
 H ! Jordan Curves / Mazes / Networks / Map Coloring
 F ! **TEST 5 [8.4 - 8.6]**

Week of Dec 6 M ! FINAL EXAM OUTLINE & DISCUSSION
 T ! Math-e-Magic / Moebius Bands
 W ! Flexagons
 H ! Miscellaneous Diversions
 F ! VIDEOS [*Donald Duck in Mathmagic Land /*
 Mathematics Peepshow / Art At Play (Escher)]