

**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	[ <i>Tree Diagrams</i> , 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 ! <b>LABOUR DAY (College Closed)</b> 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 ! <b>TEST 1 [ Symbolic Logic, 6.1 ]</b>
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 ! <b>CLASS CANCELLED (Speaker at NW Math Conference)</b> F ! <b>TEST 2 [ 6.2 - 6.4 ]</b>
Week of Oct 11	M ! <b>THANKSGIVING (College Closed)</b> 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)*]