



**School of Arts & Science**  
**MATHEMATICS DEPARTMENT**  
**MATH 113-02**  
**Fundamentals of Mathematics 2**  
**2007W**

## COURSE OUTLINE

The Approved Course Description is available on the web @ <http://britton.disted.camosun.bc.ca/math113/math113.pdf>

Ω Please note: this outline will be electronically stored for five (5) years only.  
It is strongly recommended students keep this outline for your records.

### 1. Instructor Information

|     |               |   |                    |  |
|-----|---------------|---|--------------------|--|
| (a) | Instructor:   | Jill Britton  |                    |  |
| (b) | Office Hours: | 10:30-12:20 daily   |                    |  |
| (c) | Location:     | E246  |                    |  |
| (d) | Phone:        | 370-3471  | Alternative Phone: |  |
| (e) | Email:        | <a href="mailto:jbritton@camosun.bc.ca">jbritton@camosun.bc.ca</a>                                      |                    |  |
| (f) | Website:      | <a href="http://britton.disted.camosun.bc.ca/home.htm">http://britton.disted.camosun.bc.ca/home.htm</a> |                    |  |

### 2. Intended Learning Outcomes

(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)

Upon completion of this course the student will be able to:

1. Solve linear system problems using the Gauss-Jordan Elimination Method and the Inverse Matrix Method.
2. Solve linear programming problems graphically.
3. Solve limits involving polynomial, rational, and radical functions.
4. Find derivatives and integrals of polynomial functions.
5. Sketch polynomial functions using differentiation.
6. Solve optimization problems requiring the differentiation of polynomial functions.
7. Solve area problems requiring the integration of polynomial functions.
8. Create tessellating artwork using manual techniques and by employing TesselMania! or Tessellation Exploration software.
9. Construct regular and semi-regular polyhedra by joining faces, using strut construction, and by assembling paper nets.
10. Build polyhedra by assembling folded paper units.
11. Build a 4-celled tetrahedral kite and a kaleidocycle.
12. Research math topics suitable to the elementary classroom and present results in portfolio form or as 3-D models. (Examples of such topics would be: symmetry, tessellations, and polyhedra.)

### 3. Required Materials

|     |       |   |
|-----|-------|---|
| (a) | Texts | FINITE MATHEMATICS, 8th Edition (S. T. Tan)   |
| (b) | Other | SUPPLEMENTARY MATERIAL (PART 2) TO ACCOMPANY FINITE MATHEMATICS, 8th Edition<br>\$36 materials fee payable in the Lansdowne bookstore |

#### 4. Course Content and Schedule

(Can include: class hours, lab hours, out of class requirements and/or dates for quizzes, exams, lectures, labs, seminars, practicums, etc.)

|  |
|--|
| DAILY 12:30-1:20<br>See <a href="http://britton.disted.camosun.bc.ca/math113/math113.pdf">http://britton.disted.camosun.bc.ca/math113/math113.pdf</a> for schedule |
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#### 5. Basis of Student Assessment (Weighting)

(Should be linked directly to learning outcomes.)

|     |  |  |
|-----|--|--|
| (a) | Assignments                                    | 0%   |
| (b) | Class Tests                                    | 37.5%  |
| (c) | Final Exam                                     | 37.5% (or 75%)   |
| (d) | Other<br>(eg, Attendance, Project, Group Work) | 25% (portfolio of recreational assignments and supplementary investigations) |

#### 6. Grading System

(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)

##### Standard Grading System (GPA)

| Percentage | Grade | Description                          | Grade Point Equivalency |
|------------|-------|--------------------------------------|-------------------------|
| 95-100     | A+    |                                      | 9                       |
| 90-94      | A     |                                      | 8                       |
| 85-89      | A-    |                                      | 7                       |
| 80-84      | B+    |                                      | 6                       |
| 75-79      | B     |                                      | 5                       |
| 70-74      | B-    |                                      | 4                       |
| 65-69      | C+    |                                      | 3                       |
| 60-64      | C     |                                      | 2                       |
| 50-59      | D     |                                      | 1                       |
| 0-49       | F     | Minimum level has not been achieved. | 0                       |

##### Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at [camosun.ca](http://camosun.ca) or information on conversion to final grades, and for additional information on student record and transcript notations.

| Temporary Grade | Description  |
|-----------------|--|
| I               | <i>Incomplete</i> : A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family. |

|           |   |
|-----------|---|
| <b>IP</b> | <i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.   |
| <b>CW</b> | <i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement. |

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at [camosun.ca](http://camosun.ca) for information on conversion to final grades, and for additional information on student record and transcript notations.

## 7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

### LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, at Student Services or the College web site at [camosun.ca](http://camosun.ca).

### STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services and on the College web site in the Policy Section.

Attendance is compulsory in the recreational portion of the course (Objectives 8 through 12).