



CAMOSUN COLLEGE
School of Access
Department of Mathematics and Statistics

MATH 073-S02
Advanced Mathematics II
Spring/Summer 2015

COURSE OUTLINE

The calendar description is available on the <http://camosun.ca/learn/calendar/current/web/math.html> web at _____

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

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|------------------|---|
| (a) Instructor | Garret Flowers (May 5 – June 25) & Chedo Barone (June 25 – August 13) |
| (b) Office hours | Tuesday & Thursday 5 pm – 5:30 pm |
| (c) Location | Ewing 342A |
| (d) Phone | _____ Alternative: _____ |
| (e) E-mail | flowersg@camosun.bc.ca |
| (f) Website | _____ |

2. Intended Learning Outcomes

The four very ambitious objectives of the course are:

- To learn the basic algebra skills necessary to be successful both in your chosen field of study and in future math courses. This involves learning the vocabulary, notation, rules, and techniques of intermediate algebra, as well as solving applied problems.
- To do basic arithmetic without a calculator.
- To learn to write mathematics correctly.
- To be able to explain the concepts involved in problem solving.

3. Required Materials

- (a) Texts

Intermediate Algebra, 11th Edition, Marvin Bittinger

Trigonometry Booklet (packaged with the new copies of the textbook)

(b) Other

As per Math Department policy, the only calculator permitted for use on quizzes and the final exam is the **Sharp EL-531X** scientific calculator. No other make/model of calculator is permitted, nor are other electronic devices such as cell phones, PDAs, laptop computers, electronic translators, etc.

4. Course Content and Schedule

MATH 073 is the second half of an intermediate algebra and triangle trigonometry course. Math 072 & 073 together articulate as Principles of Math 11. However, those of you who have taken Principles of Math 11 will notice that 073 has quite a different flavour; we emphasize both numeracy and algebra and trigonometric skills using only basic scientific calculator when necessary. Topics include operations on polynomials, factoring, rational expressions and equations, rational exponents, radicals and radical equations, quadratic equations and functions, right triangle trigonometry and the sine and cosine laws. Applications are seen throughout the course

Unit 1 is review for those who have taken Math 072 recently. If you have completed Math 072 within the last month, you do not need to write the Unit 1 test; you may use your Math 072 mark for Ch 4 instead.

Unit 1: Ch 4	Polynomials and Polynomial Functions	4.1 – 4.8
Unit 2: Ch 5	Rational Expressions, Equations and Functions	5.1 – 5.8
Unit 3: Ch 6	Radical Expression, Equations and Functions	6.1 – 6.8
Unit 4: Ch 7	Quadratic Equations and Modelling	7.1 – 7.7a
Unit 5:	Trigonometry (separate booklet)	5.1, 5.2, 5.3, 7.1, 7.2

5. Basis of Student Assessment (Weighting)

Your mark is based on 5 tests and an exam. If you get less than 65% on a test you must rewrite it. If you get more than 65% you have the option of rewriting it once. All test marks will count towards your final mark. To re-register for the course for one extra term, you must have at least 75% of the work done or at least have 75% attendance.

You can choose to write the tests when you feel you are ready. It is strongly recommended that you complete the suggested homework and do the Summary & Review and the Chapter Test which accompanies each unit. You must get permission of your instructor to write the test and final exam.

All tests and the final exam is written in the math lab in E342 during math lab hours which are posted on the math lab door and on my website. Please be aware that lab hours may change during the term due to staff availability. Please allow one and a half hours to write the tests and 3 hours to write the final exam. If you want to complete the course in one term, you should plan to write a test every 2-3 weeks.

Grade Calculation:	5 Tests	50%
	Final Exam	50%

There is **no rewrite for the final exam**. If the average of your term mark and your exam mark is not high enough to proceed into the next level of Math or your chosen program, then you need to repeat Math 073. But, don't be discouraged. It will likely go much quicker the second time through.

6. Grading System

(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

Standard Grading System (GPA)

Competency Based Grading System

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, Student Services or the College web site at <http://www.camosun.bc.ca>

STUDENT CONDUCT POLICY

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.
<http://www.camosun.bc.ca/policies/policies.html>

A. GRADING SYSTEMS <http://www.camosun.bc.ca/policies/policies.php>

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. 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 <http://www.camosun.bc.ca/policies/E-1.5.pdf> for 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.
IP	<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.
CW	<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.