



CAMOSUN COLLEGE
School
Department

M 073-001 FALL 2011

COURSE OUTLINE

The calendar description is available on the web @ _____

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

(a) Instructor	Bogdan Verjinschi	
(b) Office hours	E244	
(c) Location	Lansdowne	
(d) Phone	3494	Alternative: _____
(e) E-mail	verjinschi@camosun.bc.ca	
(f) Website	http://verjinschi.disted.camosun.bc.ca/	

2. Intended Learning Outcomes

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

This course is the second half of Math 11 and is an excellent refresher for those who wish to upgrade before Math 12 or Precalculus. Topics include: rational and radical expressions and equations, quadratic equations and functions, right triangle trigonometry, trigonometric functions of any angle and the Sine and Cosine Laws. [4 Credits] (Source: Camosun College 2009-2010 Calendar <http://www.camosun.bc.ca/calendar/current/web/math.html>)

3. Required Materials

Texts

- (a) M.L. Bittinger, *Intermediate Algebra*, 11th Edition, Addison-Wesley, Boston, 2007 [Note: Same textbook as Math 072]
- (b) Trig module for Unit 5: Trigonometry (2005) Beecher/Penna/Bittinger

Other

- (a) Student's Solutions Manual, Judith Penna (for sale at the bookstore, reference library)
- (b) videotapes and digital video tour covering each section of the text in the library viewing room (3 day loan)

4. Course Content and Schedule

(Can include: Class hours, Lab hours, Out of Class Requirements and/or Dates for quizzes, exams, lecture, labs, seminars, practicums, etc.)

Section		Section	
4.1	Intro to Polynomials, Polynomial Functions	6.3	Simplifying Radical Expressions
4.2	Multiplication of Polynomials	6.4	Addition, Subtraction, and More Multiplication
4.3	Introduction to Factoring	6.5	More on Division of Radical Expressions
4.4	Factoring Trinomials: $x^2 + bx + c$	6.6	Solving Radical Equations
4.5	Factoring Trinomials $ax^2 + bx + c$	6.7	Applications Involving Powers and Roots
4.6	Special Factoring	6.8	The Complex Numbers
4.7	Factoring: A General Strategy	7.1	Basics of Solving Quadratic Equations
4.8	Applications of Polynomial Eqns/Functions	7.2	The Quadratic Formula
5.1	Rational Expressions, Functions: Mult./Div.	7.3	Applications Involving Quadratic Equations
5.2	LCMs, LCDs, Addition and Subtraction	7.4	More on Quadratic Equations
5.3	Division of Polynomials	7.5	Graphing $f(x) = a(x-h)^2 + k$
5.4	Complex Rational Expressions	7.6	Graphing $f(x) = ax^2 + bx + c$
5.5	Solving Rational Equations	7.7	Mathematical Modeling with Quadratic Functions
5.6	Applications and Proportions	5.1*	Trig functions of Acute Angles
5.7	Formulas and Applications	5.2*	Applications of Right Triangles
5.8	Variation and Applications	5.3*	Trig Functions of Any Angles
6.1	Radical Expressions and Functions	7.1*	The of Sines
6.2	Rational Numbers as Exponents	7.2*	The Law of Cosines

5. Basis of Student Assessment (Weighting)

(Should be directly linked to learning outcomes.)

(a) Assignments

The required questions are attached to this package and are also available on the website. Please submit your homework assignments in a duo-tang or file folder with your name on it. Clearly state the section number and question number eg. 4.1 # 6. Each question should be written out along with a full solution, not just the answer. **Assignments are due by 8:30 a.m. on the designated day** (see pacing schedule) and assignment keys will be posted on the website shortly afterwards. **Late assignments will NOT be accepted.**

(b) Quizzes

There are 5 tests. The dates and topics are on the pacing schedule. If you miss a test for any reason (including illness, sleeping in, getting called into work etc.) a zero will be assigned. If you must miss more than one test due to illness contact me via e-mail before the test to make alternate arrangements.

(c) Exams Comprehensive, 3hours

(d) Other (e.g. Project, Attendance, Group Work)

NA

Grade Calculation: The final grade will be calculated according to the following breakdown:
5 Assignments: 10%

5 Tests: 40%*

Comprehensive Final Exam: 50% or 100%**

The lowest of the five test marks will be dropped when calculating the test average. This allows a student to be absent on any one test day for any reason, including illness, family emergency, etc., without penalty. There is **NO** provision for rewriting a missed test. There are no dropped assignments.

****If your term average is at least 50% and if your final exam mark is higher than your term average, then your final course grade will be based 100% on your final exam mark.**

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

(a) Student's Solutions Manual, Judith Penna (for sale at the bookstore, reference library)

(b) videotapes and digital video tour covering each section of the text in the library viewing room (3 day loan)

c) website <http://verjinschi.disted.camosun.bc.ca/>

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.