Welcome to Camosun College!



Camosun College campuses are located on the traditional territories of the *Lkwungen and* <u>WSÁNEĆ</u> peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

School of Access - Academic and Career Foundations Department

MATH 057 Math for Electrical Trades

Winter 2019; Section S08 (2019/01/07 - - 2019/04/17)

COURSE OUTLINE

The Approved Course Description is available on the College website http://camosun.ca/learn/calendar/current/web/math.html

1. Instructor Information

- (a) Instructor: Rusekampunzi Augustin
- (b) Office hours: 1100–1200 and 1600–1700 (Mon & Wed E222);1330–1700 (T & Th CBA 108)
- (c) Help hours: 1200 1230;1530--1600 (Mon & Wed in E 342)/1230--1330 (T & Th CBA 109)
- (d) Location of class and time: Lansdowne Campus 1230 1520 (Mon & Wed E342)
- (e) Phone: <u>250 370 4489</u>
- (f) E-mail: <u>ruse@camosun.bc.ca</u>.

2. Intended Learning Outcomes

At the end of the course, students will be able to:

- 1. Use mathematics at an ABE Intermediate level with competence
- 2. Demonstrate knowledge and skills in using the language, principles, and operations of introductory algebra and trigonometry
- 3. Apply a variety of strategies in solving math-related problems
- 4. Apply knowledge and skills in introductory algebra and trigonometry to solve problems
- 5. Use knowledge of introductory algebra and trigonometry as a basis for further study in the Electrical Foundation program, Advanced-level mathematics, and other courses and programs

3. Required Materials

- a) Textbook: Developmental Mathematics, Custom Edition for Camosun College, Marvin Bittinger/Judith Beecher (Content taken from the 9th Edition of Developmental Mathematics by the same authors)
- b) Module: Trigonometry (ABE Intermediate Mathematics module 14), British Columbia
- c) Module: Vectors (Camosun College)
- d) Scientific calculator (Sharp EL-531X or EL-531W for next level MATH 072 or 135)

Supplementary Materials

- e) Unit R Arithmetic Review booklet
- f) Selected open source math videos: <u>https://sites.camosun.ca/acf-math/math-057/</u>

- g) *Student's Solutions Manual*, Judith Penna (for sale in the bookstore; available for reference in the classroom)
- h) Instructor's Solutions Manual, Judith Penna (for reference in the classroom)
- i) website www.mymathlab.com (online text, tutorials, videos, and testing)

4. Course Instructions and Content

The course completion time will vary for each student, depending on a number of factors, including your current level of math skills, motivation, learning rate, and how much time you have to study math, either at the college or at home. Students generally need to spend 5–15 hours of study time per week to complete each math course within 4 months.

- (a) before starting unit 1, students must pass a competency test to demonstrate that they can add, subtract, multiply, and divide whole numbers, fractions, and decimals <u>without the use of</u> <u>a calculator</u> – if necessary, use the Arithmetic Review booklet to review these operations before writing the competency test
- (b) for each section of the 057 text listed in the table below, read the explanations, study the Examples, do the Margin Exercises, and then work through and check all or at least some of the more difficult odd-numbered problems in the Exercise Set
- (c) note that unit 4 includes text chapter 10, 11.1, & 11.2, and a supplement on exponents
- (d) to prepare for the test for each unit, do the Summary and Review Exercises and write the Chapter Test at the end of the chapter, and correct all of your errors
- (e) review your test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the unit test if you score less than 75% (all test scores count)

	MATH 057 course content						
	Unit R – Arithmetic Review (no calculator)						
	(supplementary module)						
R.1	Place value						
R.2	Comparing numbers						
R.3	Rounding numbers						
R.4	Adding and subtracting whole numbers and decimals						
R.5	Multiplying whole numbers and decimals						
R.6	Powers – repeated multiplication						
R.7	Dividing whole numbers and decimals						
R.8	Order of operations						
R.9	Operations with fractions						
R.10	Equivalent fractions						
R.11	Adding and subtracting fractions						
R.12	Multiplying fractions						
R.13	Dividing fractions						
R.14	Converting fractions and decimals						
R.15	Estimation						
	Practice Test						
	Unit R test (no calculator)						
9 th &	MATH 057 course content						
8 th ed		ļ					
	Unit 1 – Real Numbers and Algebraic Expressions (20 days)	<u> </u>	_				
7.1	Introduction to algebra	_					
7.2	The real numbers						
7.3	Addition of real numbers						
7.4	Subtraction of real numbers	<u> </u>					
7.5	Multiplication of real numbers						
7.6	Division of real numbers						
7.7	Properties of real numbers						
7.8	Simplifying expressions; order of operations						
	Summary and review						

Chapter test Unit 1 test Unit 2 - Solving Equations and Inequalities (30 d 8.1 Solving equations: the multiplication principle 8.2 Solving equations: the multiplication principle 8.3 Using the principles together 8.4 Formulas 8.5 Applications of percent 8.6 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test (22 d) 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 - Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents i 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials in several variables 10.6 <th></th>			
8.1 Solving equations: the addition principle 8.2 Solving inequations: the multiplication principle 8.3 Using the principles together 8.4 Formulas 8.5 Applications of percent 8.6 Applications and problem solving with inequalities 8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test Unit 3 - Graphs of Linear Equations 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials in several variables <t< td=""><td></td></t<>			
8.1 Solving equations: the addition principle 8.2 Solving inequations: the multiplication principle 8.3 Using the principles together 8.4 Formulas 8.5 Applications of percent 8.6 Applications and problem solving 8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test Unit 3 - Graphs of Linear Equations 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials by a monomial 11.1ab Introduction to common factoring 11.2			
8.1 Solving equations: the addition principle 8.2 Solving ine principles together 8.3 Using the principles together 8.4 Formulas 8.5 Applications of percent 8.6 Applications and problem solving 8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test Unit 3 - Graphs of Linear Equations 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials by a monomial 11.1ab Intro	vs)		
 8.2 Solving equations: the multiplication principle 8.3 Using the principles together 8.4 Formulas 8.5 Applications and problem solving 8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 3 - Graphs of Linear Equations (22 d) 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents in 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8 Division of polynomials of the type x² + bx + c 11.3b Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam day 1 5.4 The tangent ratio 5.6 The sine and cosine ratios 			
8.3 Using the principles together 8.4 Formulas 8.5 Applications of percent 8.6 Applications and problem solving with inequalities 8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 3 - Graphs of Linear Equations (22 d) 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents in thorduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials in several variables 10.6 Special products 10.7 Operations with polynomials in several variables 10.8 Division of polynomials of the type $x^2 + b$			
8.4 Formulas 8.5 Applications of percent 8.6 Applications and problem solving 8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test Unit 3 - Graphs of Linear Equations 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents i 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials in several variables 10.6 Special products 10.7 Operations with polynomials in several variables 11.8b Introduction to common factoring 11.2 <td< td=""><td></td></td<>			
8.5 Applications of percent 8.6 Applications and problem solving with inequalities 8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test (22 d) 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents at 10.2 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials in several variables 10.6 Special products 10.7 Operations with polynomials in several variables 10.8 Division of polynomials by a monomial 11.12 Factoring differences of squares Summary			
8.6 Applications and problem solving 8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test Unit 3 – Graphs of Linear Equations (22 d) 9.1 Graphs and applications of linear equations 9.2 9.2 More with graphing and intercepts 9.3 9.3 Slope and applications 9.4 Equations of lines 9.9 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 – Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents in 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8 Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2<			
8.7 Solving inequalities 8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test (22 d) 9.1 Graphs and applications of linear equations (22 d) 9.1 Graphs and applications of linear equations (22 d) 9.1 Graphs and applications of linear equations (22 d) 9.3 Slope and applications (22 d) 9.4 Equations of lines (28 d) 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents (28 d) 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents in 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents in 10.4 Addition and subtraction of polynomials (28 d) 10.5 Multiplication of polynomials (28 d) 10.4 Addition and subtraction of polynomials (28 d) 10.5 Multiplication of polynomials (28 d) 10.5 <			
8.8 Applications and problem solving with inequalities Summary and review Chapter test Unit 2 test (Unit 3 - Graphs of Linear Equations) 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.6 The sine and cosine ratios			
Summary and review Chapter test Unit 2 test Unit 3 - Graphs of Linear Equations 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 test Unit 4 - Polynomials: Operations and Factoring (28 d 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents at 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials in several variables 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test			
Chapter test Unit 2 test Unit 3 - Graphs of Linear Equations 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents and rediction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials in several variables 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 053 review and final exam day 1 5.3			
Unit 2 test Unit 3 - Graphs of Linear Equations 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 4 - Polynomials: Operations and Factoring (28 d 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents at 10.3 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8 Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 15.4 The right triangle 5.2 5.2 Angles and			
9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 test Unit 4 – Polynomials: Operations and Factoring 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents i 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 053 review and final exam day 1 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorea			
9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 test Unit 4 – Polynomials: Operations and Factoring 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents i 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 053 review and final exam day 1 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorea			
9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 test Unit 4 – Polynomials: Operations and Factoring 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents i 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 053 review and final exam day 1 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorea	vs)		
9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 test Unit 4 - Polynomials: Operations and Factoring (28 d 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents i 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials in several variables 10.6 Special products 10.7 Operations with polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 S1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 105 5.	<i>i</i> - <i>i</i>		
9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 test Unit 4 – Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 053 review and final exam day 1 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.5 Using th			
9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 test Unit 4 – Polynomials: Operations and Factoring 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam day 1 MATH 057 course content MATH 057 course content MATH 057 course content MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 d) 5.1 The right triangle 15.2 Angles and sides Summary and review			
9.5 Graphing using the slope and y-intercept Summary and review Chapter test Unit 3 test Unit 4 – Polynomials: Operations and Factoring (28 d) 10.1* Integers as exponents (28 d) 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents and scientific notation * after 10.2, complete supplementary exercises on exponents and subtraction of polynomials (28 d) 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials by a monomial 11.1ab Introduction to common factoring 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 5.1 The right triangle 15.4 5.2 Angles and sides 16.5 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10.57 5.4<			
Summary and review Chapter test Unit 3 test Unit 3 test 0.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents at 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 057 course content Summary and review <td <="" colspan="2" td=""><td></td></td>	<td></td>		
Chapter test Unit 3 test Unit 4 - Polynomials: Operations and Factoring 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents at 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test			
Unit 3 test Unit 4 – Polynomials: Operations and Factoring 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents and subtraction of polynomials 10.3 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 5.1 The right triangle 5.2 Angles and sides 5.3 The tangent ratio 5.4 <t< td=""><td></td></t<>			
Unit 4 – Polynomials: Operations and Factoring (28 d. 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents in the supplementary is the supplementary module. 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 053 review and final exam day 1 Intering triangle 5.1 The right triangle 5.2 Angles and sides 5.3 The tangent ratio 5.5 <td></td>			
10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents and subtraction of polynomials 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 057 course content MATH 053 review and final exam MATH 057 course content MATH 053 review and final exam MA			
10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents and subtraction of polynomials 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 057 course content MATH 053 review and final exam MATH 057 course content MATH 053 review and final exam MA	vs)		
10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents and subtraction of polynomials 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 057 course content MATH 053 review and final exam MATH 059, 8e text p 1059, 5.	<u>yo</u> ,		
 * after 10.2, complete supplementary exercises on exponents a 10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type x² + bx + c 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test MATH 053 review and final exam day 1 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 8e text p 105, 5e The sine and cosine ratios 			
10.3 Introduction to polynomials 10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review	1-25		
10.4 Addition and subtraction of polynomials 10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 053 review and final exam MATH 057 course content 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 5.6 5.6 The sine and cosine ratios	0		
10.5 Multiplication of polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 057 course content MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 d. 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6			
10.6 Special products 10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 053 review and final exam MATH 057 course content MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 d. 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6			
10.7 Operations with polynomials in several variables 10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 057 course content Summary and review MATH 057 course content MATH 057 course content Summary and review Summary and review MATH 057 course content <td< td=""><td></td></td<>			
10.8a Division of polynomials by a monomial 11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 057 course content MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 d. 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
11.1ab Introduction to common factoring 11.2 Factoring trinomials of the type x² + bx + c 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 State State Unit 5 - Trigonometry (supplementary module) S.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 053 review and final exam day 1 MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 days) 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
11.5cd Factoring differences of squares Summary and review Chapter test Unit 4 test Unit 4 test MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 days) 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
Summary and review Chapter test Unit 4 test MATH 053 review and final exam MATH 053 review and final exam MATH 057 course content Image: State of the state of t			
Chapter test Unit 4 test MATH 053 review and final exam MATH 057 course content S.1 The right triangle 5.2 Angles and sides 5.3 The tangent ratio 5.4 The sine a			
Unit 4 test MATH 053 review and final exam day 1 MATH 053 review and final exam day 1 Unit 5 - Trigonometry (supplementary module) Unit 5 - Trigonometry (supplementary module) (15 d 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
MATH 053 review and final exam day 1 MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 d. 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 10 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 days) 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 5.4 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
MATH 057 course content Unit 5 – Trigonometry (supplementary module) (15 days) 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 5.4 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios	15		
Unit 5 – Trigonometry (supplementary module) (15 d. 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 5.4) 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios	5		
Unit 5 – Trigonometry (supplementary module) (15 d. 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 5.4) 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
Unit 5 – Trigonometry (supplementary module) (15 d. 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 5.4) 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios			
 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 8e			
 5.1 The right triangle 5.2 Angles and sides 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1059, 8e	(av		
5.2Angles and sides5.3The Pythagorean theorem (more in 7e text p 1059, 8e text p 105.4The tangent ratio5.5Using the tangent ratio5.6The sine and cosine ratios	<u>yəj</u>		
 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1054) 5.4 The tangent ratio 5.5 Using the tangent ratio 5.6 The sine and cosine ratios 			
5.4The tangent ratio5.5Using the tangent ratio5.6The sine and cosine ratios	97)		
5.5 Using the tangent ratio5.6 The sine and cosine ratios			
5.6 The sine and cosine ratios	<u> </u>		
	<u> </u>		
5./ Solving triangles			
Drastics to st			
Unit 5 test			
Practice test			

	Unit 6 – Vectors (supplementary module)	(10 days)	
p 10	Problem Sets		
	Unit 6 test	day 130	

5. Basis of Student Assessment (Weighting)

- (a) **Tests** 75% of the course grade is based on the average of **all** unit final test scores for units 1–6 (including both passing and failing test scores)
- (b) **Exams** 25% of the course grade is based on the average of **all** final exam scores (including both passing and failing exam scores)
- **Note:** Students with a record of low attendance OR lack of progress may be restricted from re-registering in Academic and Career Foundations Department courses.

6. Course Grading System – Standard Grading System

http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf

A+	90–100%	B+	77–79%	C+	65–69%
А	85–89%	В	73–76%	С	60–64%
A–	80–84%	B–	70–72%	IP	in progress

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://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf

for information on conversion to final grades, and for additional information on student record and transcript notations.

7. Learning Support and Services for Students

ACADEMIC UPGRADING HELP CENTRE (CBA 109 or Ewing 342) <u>http://camosun.ca/services/help-centres/math.html</u> Help with coursework, reference & learning materials library, computers & printers, quiet testing & study areas

8. College Supports, Services and Policies



Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <u>http://camosun.ca/about/mental-health/emergency.html</u> or <u>http://camosun.ca/services/sexual-violence/</u>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support &

education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <u>http://camosun.ca/services/</u>

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at http://camosun.ca/about/policies/. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.