

Mathematics 137-003 Algebra and Triangle Trigonometry Winter, 2018

 Instructor:
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 E-mail:
 frost@camosun.bc.ca
 http://online.camosun.ca - course materials/grades
 http://pearsonmylabandmastering.com - online assts

Timetable: Time Monday Tuesday Wed Thursday Friday Math 137-001 Math 137-001 Math 137-001 Math 137-001 9:30-11:20pm E346 E346 E346 E346 11:20-Office Hour Office Hour Office Hour Office Hour 12:20pm Math 137-003 Math 137-003 Math 137-003 Math 137-003 12:30-2:20pm E346 E346 F346 E346 2:30-3:30 pm Office Hour Additional Office Hours by Appointment

Important Dates:

 Jan 22
 Fee

 Feb 12-16
 Fam

 Mar 14
 With

 Mar 30, Apr 2
 Good

 Apr 14
 Last

 Apr 16-24
 Fina

Fee Deadline Family Day/Reading Break Withdrawal Deadline Good Friday/Easter Monday Last day of classes Final Exam Period

1. Intended Learning Outcomes

This course provides a foundation for the further study of mathematics. Topics include linear equations and inequalities; function notation; linear functions; systems of linear equations in two variables; polynomial, rational and radical expressions and equations; quadratic functions and equations; and triangle trigonometry including the Sine and Cosine Laws. [5 Credits] Source: Camosun College Calendar http://camosun.ca/learn/calendar/current/web/math.html After completion of Math 137, students will meet the outcomes as identified in the Adult

Basic Education Articulation Handbook found at

http://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/2016-17_abe_guide.pdf

2. Course Materials and Support

Required Materials:

- a) M.L. Bittinger, *Intermediate Algebra*, 12th Edition, Addison-Wesley, Boston, 2015 with Student Solution Manual and MyMathLab access code. Available in text or **e-text** (cheapest at the bookstore).
- b) Sharp EL-531W scientific calculator this is the only calculator allowed on tests and the exam.
- c) Math 137 Course Pack, Frost

Supplementary Materials:

- a) A Trig supplement is available on my website. You do not need to purchase one.
- b) Videotapes and CD's covering each section of the text in the library viewing room (free-3 day loan)

Study Tips: We recommend you spend 8-12 hours per week studying outside of class time.

Math Labs: Ewing 342 & 224 (LANS)and Tec142 (INT): These drop-in centres are available for you to work on math homework and to seek free help from the tutor on staff. See the hours posted on the math lab doors (most current) or go to to <u>http://camosun.ca/services/help-centres/math-access.html</u>

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, Registrar's Office or the College web site at http://camosun.ca/ and at the **Centre for Accessible Learning** http://camosun.ca/services/accessible-learning/.

3. Prerequisites and Exit Grade

Prerequisite(s): "B" in Applications of Math 11; or "C" in Principles of Math 10, or Foundations of Math & Pre calculus 10, or Foundations of Math 11, or Applications of Math 12, or MATH 053; or "C-" in Principles of Math 11, or Pre-calculus 11; or assessment.

Exit Grade and Course Options:

B for Math 115 C+ for Math 107 C for Math 112 or 109 Note that Math 137 cannot be used by BBA students to satisfy the UT math requirement.

4. Basis of Student Assessment (Grading)

Assignments: Online assignments are taken through MyMathLab. The deadline dates are Mondays by 11:59pm, but it is best to complete them ahead of time to allow for any glitches such as frozen computers. There are no extensions. See the last page on how to register for MyMathLab. There is also an in-class trig assignment.

Tests: There are 4 in class tests. The dates and topics are on the pacing schedule. If you miss a test for any reason (including illness, getting called into work) a zero will be assigned, unless you contact me via e-mail <u>before</u> the test to make alternate arrangements. All tests count.

Final Exam: The final exam is worth 50% of your mark and is based on the entire course. <u>Do not make holiday plans</u> <u>until you know the time of the exam as this is not negotiable.</u>

Grade Calculation: The final grade will be calculated according to the following breakdown:

	F	D	С	C+	B -	В	B+	A -	Α	A+
Grade Scale:	0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100
			Compre	hensive	Final Exa	m:		50%		
			Tests a	nd In-Cla	ss assigr	iment		40%		
			Online /	SSIGUUUE	1115			10 /0		

For information on Camosun College's grading policy, see the webpage:

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

Academic Integrity: The Department of Mathematics and Statistics has prepared a handout called *Student Guidelines for Academic Integrity* to help you interpret college policies involving student conduct, academic dishonesty, plagiarism, etc. It is your responsibility to become familiar with the contents of the document and the college policies it references.

Academic Progress: The College has an academic progress policy geared mainly toward "at risk" students, the stated intention for which is to improve a student's likelihood of success. To view the policy, see the webpage http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf

5. Course Content

Review of Basic AlgebraRational Expressions, Equations, and FunctionsR.1 Set of Real Numbers5.1 Rational Expressions, Functions: Mult/Div.R.2 Operations with Real Numbers5.2 LCMs, LCDs, Addition and SubtractionR.4 Introduction to Algebraic Expressions5.3 Division of PolynomialsR. 6 Simplifying Algebraic Expressions5.4 Complex Rational EquationsSolving Linear Equations and Inequalities5.6 Uniform Motion Applications1.1 Solving Equations and Applications5.7 Formulas and Applications1.2 Formulas and Applications5.8 Variation and Applications, and Functions1.3 Applications and Problem SolvingRadical Expressions, Equations, and Functions1.4 Sets, Inequalities, and Interval NotationR.3 Exponential Notation and Order of Operations1.5 Intersections, Unions, and Compound Inequalities6.1 Radical Expressions and Functions1.6 Absolute-Value Equations and Inequalities6.2 Rational Numbers as Exponents2.1 Graphs of Equations6.3 Simplifying Radical Expressions2.2 Functions and Graphs6.4 Addition, Subtraction, and More Multiplication2.3 Finding Domain and Range6.5 Solving Radical Equations2.4 Linear Functions: Graphs and Slope6.6 Solving Radical Equations2.5 Solving Patientons in Two Variables7.1 Basics of Solving Quadratic Equations3.1 Systems of Equations in Two Variables7.2 The Quadratic Formula3.2 Solving by Substitution7.3 Applications Involving Quadratic Equations3.3 Solving by Elimination7.3 Applications Involving Quadratic Equations3.4 Solving Applied Problems7.4 M		
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4.8 Applications of Polynomial Equations The Law of Cosines	4.7 Factoring: A General Strategy	The Law of Sines
	4.8 Applications of Polynomial Equations	The Law of Cosines

6. Pacing Schedule

Wk		Monday	Tuesday	Wed	Thursday	Friday
1	Jan 8-12	Intro/Review	Review/1.1	1.2	1.3	
2	Jan 15-19	1.4/1.5 Asst Chap R	1.6	2.1	2.2/2.3	
3	Jan 22-26	2.4 Fee deadline Asst Chap 1	2.5	2.6/3.1	3.2/3.3	
4	Jan 29-Feb2	3.4a/Comparing methods Asst Chap 2	3.7ab/4.1	4.2/4.3	Test 1 (Chaps R, 1&2)	
5	Feb 5-9	4.4 Asst Chap 3	4.5	4.6	4.7/4.8	
6	Feb 12-16	Holiday	Reading Break	Reading Break	Reading Break	
7	Feb 19-23	5.1 Asst Chap 4	5.2	5.3	Test 2 (Chaps 3&4)	
8	Feb 26-Mar 2	5.4 Asst Chap 5.1-5.3	5.5	5.6	5.7/5.8	
9	Mar 5-9	6.1 Asst Chap 5.4-5.8	6.2	6.3	6.4/6.5	
10	Mar 12-16	6.6 Asst Chap 6.1-6.5	6.7/6.8	7.1 Drop deadline	Test 3 Chap 5, 6.1-6.5	
11	Mar 19-23	7.2 Asst Chap 6.6-6.8	7.3	7.4	7.5	
12	Mar 26-30	7.6 Asst Chap 7.1-7.4	7.7	Trig	Holiday	
13	Apr 2-6	Holiday	Trig Asst Chap 7.5-7.7	Trig	Test 4 Chap 6.6-6.8,Chap 7	
14	Apr 9-13	Trig	Trig In Class Asst	Trig In Class Asst	Review Asst Trig1 and 2	
			Final Exam Period Apr			

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Before You Begin:

To register for MyMathLab, you need: 1) MyMathLab student access code 2) the Course ID: frost61541, and 3) a valid email address Student Registration:

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- Click on Register on the top right hand of the screen.
- Under Register, click Student. Then OK! Register Now.
- Enter your Course ID: frost61541 and click Continue. Your course information appears on the next page. If it does not look correct, contact your instructor to verify the Course ID.
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