

Mathematics 137-002 Algebra and Triangle Trigonometry Winter, 2013

Instructor: Lansdowne Office: Timetable:	Cathy Frost Ewing 250	Ph#:250-3	70-3404	E-mail: frost@camosun.bc.ca Website: <u>http://online.camosun.ca</u>			
	Time	Monday	Tuesday	Wednesday	Thursday	Friday	
	8:30am -9:30am						
	10:30am -12:20pm	Math 137-002 E346	Math 137-002 E346	Math 137-002 E346	Math 137-002 E346		
	12:30-1:30		Office Hour		Office Hour		
	1:30pm -2:30pm		Office Hour		Office Hour		
	2:30-4:20pm	Math 137-004 E346	Math 137-004 E346	Math 137-004 E346	Math 137-004 E346		
	4:30pm -5:30pm	Office Hour		Office Hour			
		Addition	al Office Hours	by Appointmen	t		

Important I	Dates:
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Jan 7	First day of classes for Winter term
Jan 21	Fee Deadline
Feb 11	Family Day Holiday
Feb 21&22	Reading Break
Mar 12	Withdrawal Deadline
Mar 29 and Apr 1	Holiday
Apr 11	Last day of classes for Fall term
Apr 15-20,22,23	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 2012/2013 Calendar http://camosun.ca/learn/calendar/current/web/math.html

2. Course Materials and Support

Required Materials:

- a) M.L. Bittinger, *Intermediate Algebra*, 11th Edition, Addison-Wesley, Boston, 2011
- **b**) The only calculator allowed on tests and the final exam is the Sharp EL-531W scientific calculator.

Supplementary Materials:

- a) Math 137 Course Pack, Frost
- b) Student's Solutions Manual, Judith Penna (for sale at the bookstore, reference library)
- c) Videotapes and CD's covering each section of the text in the library viewing room (free-3 day loan)
- d) MathXL (online text, tutorials, videos, and self-testing)
 The access code can be purchased online at <u>www.mathxl.com</u>. Once you're registered choose 'Independent Study' and then your textbook.

Study Tips: It is recommended that approximately 8-12 hours per week be spent studying for this course outside of class time. Find a study buddy to discuss math problems and get notes if you have to miss class.

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 <u>http://camosun.ca/learn/programs/math/labs.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/

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 105, 107, 109 C for Math 112

4. Basis of Student Assessment (Grading)

Assignments: There are 5 assignments which are based on questions from your textbook and will help prepare you for the tests. Submit your homework assignments on the templates provided in class or print them from the website on legal paper. Each question should be written with a full solution, not just the answer.

Assignments are due **by 5:00pm** on the designated day (see pacing schedule) and assignment keys will be posted on the website shortly afterwards. Late assignments will NOT be accepted. I'll count the best four assignments.

Quick Quizzes: To give you more practice between tests, I will give a quick quiz on Mondays and/or Wednesdays each week. It will consist of one or two questions from the Recommended Homework. I'll count the best 10 quick quizzes so that you will not be penalized if you have to miss a class or two for illness or other reasons. As a result, there will be no make-up quick quizzes.

Tests: There are 5 in class 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, however, I'll count the best four tests. If you must miss more than one test due to illness contact me via e-mail before the test to make alternate arrangements.

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

5 Assignments and quick quizzes:	10%*
5 Tests	40%*

Comprehensive Final Exam: 50% or 100%**

*The lowest of the five test marks and the lowest of the five assignment marks will be dropped.

**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.

Grade Scale:

	0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100
	F	D	С	C+	B -	В	B+	A -	Α	A +
	For inform	nation on	Camosu	n College	e's gradin	g policy,	see the v	webpage		
	http://camosun.ca/about/policies/education-academic/e-1-programming-&-instructior					<u>ruction/e-</u>				
	<u>1.5.pdf</u>									
Academic Progress: The College has an academic progress policy geared mainly toward "at risk" studen						dents, the				
	stated int	ention fo	r which is	s to impro	ove a stu	dent's lik	elihood o	of success	s. To vie	w the

policy, see the webpage http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf

5. Course Content

Section		Section	
	Review of Basic Algebra		Rational Expressions, Equations, and Functions
R.1	Set of Real Numbers	5.1	Rational Expressions, Functions: Mult./Div.
R.2	Operations with Real Number	5.2	LCMs, LCDs, Addition and Subtraction
R.3	Exponential Notation and Order of Operations	5.3	Division of Polynomials
R.4	Introduction to Algebraic Expressions	5.4	Complex Rational Expressions
R.5	Equivalent Algebraic Expressions	5.5	Solving Rational Equations
R.6	Simplifying Algebraic Expressions	5.6	Applications and Proportions
R.7	Properties of Exponents and Scientific Notation	5.7	Formulas and Applications
Test Chap	R	5.8	Variation and Applications
	Solving Linear Equations and Inequalities		Radical Expressions, Equations, and Functions
1.1	Solving Equations	6.1	Radical Expressions and Functions
1.2	Formulas and Applications	6.2	Rational Numbers as Exponents
1.3	Applications and Problem Solving	6.3	Simplifying Radical Expressions
1.4	Sets, Inequalities, and Interval Notation	6.4	Addition, Subtraction, and More Multiplication
1.5	Intersections, Unions, and Compound Inequalities	6.5	More on Division of Radical Expressions
1.6	Absolute-Value Equations and Inequalities	6.6	Solving Radical Equations
	Graphs, Functions, and Applications	6.7	Applications Involving Powers and Roots
2.1	Graphs of Equations	6.8	The Complex Numbers
2.2	Functions and Graphs	Test Cha	up 5&6
2.3	Finding Domain and Range		Quadratic Equations and Functions
2.4	Linear Functions: Graphs and Slope	7.1	Basics of Solving Quadratic Equations
2.5	More on Graphing Linear Equations	7.2	The Quadratic Formula
2.6	Finding Equations of Lines: Applications	7.3	Applications Involving Quadratic Equations
Test Chap	1&2	7.4	More on Quadratic Equations
	Systems of Equations	7.5	Graphing $f(x) = a(x-h)^2 + k$
3.1	Systems of Equations in Two Variables	7.6	Graphing $f(x) = ax^2 + bx + c$
3.2	Solving by Substitution	7.7	Mathematical Modeling with Quadratic Functions
3.3	Solving by Elimination		Trigonometry
		5.1*	Trig functions of Acute Angles
3.4a	Solving Applied Problems	5.2*	Applications of Right Triangles
3.7ab	Systems of Inequalities in Two Variables	5.3*	Trig Functions of Any Angles
	Polynomials and Polynomial Functions	7.1*	The Law of Sines
4.1	Introduction to Polynomials and Polynomial Functions	7.2*	The Law of Cosines
4.2	Multiplication of Polynomials	Test Chap 7 and Trig	
4.3	Introduction to Factoring	Final Cu	mulative Exam
4.4	Factoring Trinomials: $x^2 + bx + c$	-	
4.5	Factoring Trinomials: $ax^2 + bx + c$		
4.6	Special Factoring		
4.7	Factoring: A General Strategy	4	
4.8	Applications of Polynomial Equations 3&4	1	

6. F	acing Sche	dule (tentative)				
Wk		Monday	Tuesday	Wednesday	Thursday	Friday
1	Jan 7-10	Intro, R.1, R.2	R.3,R.4,R.5	R.6,R.7	R.7,1.1	
1					Asst #1 due	
	Jan 14-17	1.2	Test #1	1.4, 1.5	1.6,2.1	
2		Review	(R.1-R.7)			
	I 01.04	2.2	1.3	25.26	2.6	
3	Jan 21-24	=-=	2.3,2.4	2.5, 2.6		
		Fee deadline	Trat #2 (1 1 2 C)	2.2	Asst #2 due	
4	Jan 28-31	3.1,3.2 Review	Test #2 (1.1-2.6)	3.3	3.4a, 3.7ab	
	Feb 4-7	4.1, 4.2	4.3, 4.4	4.5, 4.6	4.7	
5	reb 4-7	4.1, 4.2	4.5, 4.4	4.3, 4.0	4.7	
	Feb 11-14	HOLIDAY	4.8	5.1	5.2	
6					Asst #3 due	
7	Feb 18-21	5.3	Test #3 (3.1-4.8)	5.4	Reading Break	Reading
/		Review			0	Break
8	Feb 25-28	5.5	5.6	5.7, 5.8	6.1	
ð						
9	Mar 4-7	6.2	6.3	6.4	6.5	
9						
10	Mar 11-14	6.6	6.7	6.8	7.1	
10			Withdrawal deadline		Asst #4 due	
11	Mar 18-21	7.2	Test #4 (5.1-6.8)	7.3,7.4	7.5	
11		Review				
12	Mar 25-28	7.6	7.7	5.1*	5.2*	HOLIDAY
12						
13	Apr 1-4	HOLIDAY	5.3*	7.1*, 7.2*	7.2*	
15	-				Asst #5 due	
14	Apr 8-11	Trig Exercise	Review	Test #5 (7.1-7.7, Trig)	Exam Review	
Final	exam period: Api	15-20,22,23	•	· · · · ·		
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6 Pacing Schedule (tentative)

7. Recommended Homework and Assignments Text: *Intermediate Algebra*, 11th edition, Marvin Bittinger

Assignment	Sec.	Recommended Practice Problems (not to be handed in)	Required Problems (use the template handed out in class)
	R.1	3, 11, 15, 17, 23, 33, 39, 41, 45, 49, 51, 59, 63	4, 40, 54
	R.2	5, 15, 23, 51, 53, 71, 75, 77, 87, 89, 95, 103, 109, 113	52, 88, 104
	R.3	1, 5, 13, 15, 25, 29, 31, 33, 35, 37, 41, 45, 55, 59, 67, 85, 97, 105, 107	32, 50, 76, 106
Assignment 1 Due: Jan 10	R.4	1, 3, 13, 15, 17, 23, 25, 31, 35, 37, 41, 45	22, 26, 40
	R.5	1, 7, 11, 19, 21, 25, 31, 35, 37, 41, 45, 47, 53, 59	12, 36, 52
	R.6	11, 15, 21, 23, 27, 35, 41, 43, 47, 53, 57, 67	22, 48, 54,64
	R.7	1, 5, 9, 13, 17, 21, 25, 29, 37, 41, 49, 53, 57, 61, 69, 71, 79, 81, 87, 89, 93, 97, 103, 105	16, 56, 62, 82, 110
	1.1	9, 11, 23, 35, 37, 43, 47, 51, 55, 59, 61, 63, 69, 73, 77, 79	78, 80
	1.2	1, 5, 9, 13, 17, 19, 21, 23, 27, 29, 37	18, 30
	1.3	1, 5, 7, 9, 13, 15, 21, 23	10, 14
	1.4	3, 5, 7, 9, 11, 13, 17, 27, 35, 37, 41, 43, 47, 55, 59, 63, 71, 73, 77, 85	52, 82
	1.5	1, 5, 13, 17, 21, 29, 41, 45, 47, 51, 59, 61	20, 46
Assignment 2 Due: Jan 24	1.6	1, 5, 11, 15, 21, 31, 35, 37, 43, 51, 53, 57, 59, 63, 67	12, 52, 62
Due: Jan 24	2.1	1, 5, 15, 17, 25, 31, 33, 41, 45, 47, 49, 51	36, 46
	2.2	1, 5, 7, 9, 19, 21, 23, 27, 35, 43, 47, 49, 53, 55, 57, 59, 61	22, 42
	2.3	1, 5, 7, 9, 11, 15, 19, 23, 27, 33, 37	2, 6, 30, 36
	2.4	1, 5, 9, 13, 19, 19, 23, 27, 31, 33	12, 20, 32
	2.5	1, 5, 9, 13, 17, 19, 23, 29, 31, 39, 43, 45, 51, 55, 71, 75, 77	12, 30, 50
	2.6	1, 5, 9, 11, 19, 25, 29, 31, 33, 41, 45, 51	28, 44, 52

3.21, 7, 11, 15, 17, 19, 214, 14, 203.33, 5, 9, 11, 15, 17, 27, 3110, 283.4a1, 5, 7, 9, 13, 17, 198, 183.7ab1, 5, 11, 13, 17, 19, 2114, 224.11, 5, 7, 21, 25, 29, 35, 41, 51, 55, 67, 73, 794, 763.0e: Feb 144, 21, 5, 11, 13, 15, 21, 23, 27, 33, 41, 51, 55, 65, 71, 77, 81, 85, 914.31, 5, 9, 11, 17, 21, 25, 29, 33, 37, 49, 47, 498, 484.41, 5, 7, 11, 13, 19, 21, 23, 25, 27, 29, 3322, 304.51, 5, 9, 19, 25, 29, 33, 41, 45, 5120, 32, 444.61, 5, 11, 17, 25, 33, 35, 39, 43, 47, 53, 61, 63, 69, 71, 75, 79, 89, 9526, 42, 62, 844.71, 3, 57, 11, 17, 19, 23, 25, 27, 29, 3136, 545.11, 3, 5, 7, 13, 15, 19, 21, 25, 27, 29, 31, 35, 37, 41, 45, 49, 51, 55, 5736, 545.23, 11, 13, 19, 23, 27, 13, 33, 53, 94, 54, 49, 55, 63, 67, 7158, 645.51, 5, 9, 11, 15, 19, 21, 23, 27, 29, 318, 265.55.51, 5, 9, 11, 15, 19, 21, 23, 27, 29, 318, 265.55.51, 5, 9, 11, 15, 19, 23, 25, 27, 33, 35, 41, 4326, 385.625, 27, 29265.77.1230, 41, 40, 53, 55, 59, 63, 67, 7158, 645.81, 5, 9, 13, 17, 21, 25, 29, 31, 39, 4144, 53, 51, 53, 61, 63, 67, 67, 7158, 645.625, 27, 29265.71, 23, 28, 29, 3117a6.51, 5, 9, 13, 17, 21, 25, 27, 29, 31, 39, 44, 44, 55, 51, 56, 67, 71, 7330, 70, 726.615, 9, 13, 17, 12, 25, 27, 29, 31, 39, 44, 4		3.1	3, 5, 13, 15, 17, 19 (omit consistency and dependence part)	4, 14
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5.8 1, 5, 7, 9, 15, 17, 21, 25, 29, 31, 39, 41 24, 30 6.1 7, 9, 11, 13, 15, 19, 23, 25, 27, 29, 35, 43, 45, 51, 53, 61, 63, 65, 67, 69, 71 24, 28, 46, 54 6.2 3, 7, 15, 21, 29, 33, 39, 41, 43, 45, 49, 51, 53, 55, 59, 63, 69, 71, 73, 75, 79 24, 68, 72, 76, 80 6.3 1, 5, 9, 13, 17, 21, 25, 29, 33, 39, 41, 49, 53, 55, 59, 67, 71, 75, 79, 83, 87, 89 40, 46, 64 6.4 1, 5, 9, 13, 17, 21, 25, 29, 31, 34, 47, 51, 57, 61, 67, 71, 73 30, 70, 72 6.5 1, 5, 9, 13, 17, 21, 25, 29, 31, 34 6, 20, 30 6.6 1, 5, 9, 17, 19, 21, 27, 29, 33, 37, 41, 47, 53, 55, 57 18, 42, 56 6.7 1, 5, 7, 11, 13, 17, 19, 21, 23, 29 18, 20 6.8 1, 5, 13, 17, 19, 27, 31, 35, 39, 47, 71, 77, 81, 87 12, 44, 94 7.1 1, 5, 9, 13, 17, 21, 25, 31, 39, 43, 47, 49, 51, 55, 57 38, 44 7.2 1, 3, 11, 17, 21, 29, 33, 35, 41 30, 34 7.3 3, 5, 9, 11, 13, 19, 21, 25, 31, 35, 37, 39, 41, 43, 47 12, 30, 42 7.4 1, 5, 9, 13, 17, 19, 21, 23 12, 20 7.4 1, 5, 9, 13, 17, 19, 21, 23 12, 20 7.5 1, 5, 7, 9, 15, 19, 21 8, 16		5.6	25, 27, 29	26
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Assignment 5 Automatical and a state of the		6.1	7, 9, 11, 13, 15, 19, 23, 25, 27, 29, 35, 43, 45, 51, 53, 61, 63, 65, 67, 69, 71	24, 28, 46, 54
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