



## Mathematics 137-002 Algebra and Triangle Trigonometry Fall, 2016

**Instructor:** Cathy Frost

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**Websites:** <http://online.camosun.ca> for all course materials and grades  
<http://pearsonmylabandmastering.com> for online assignments

**Timetable:**

Time	Monday	Tuesday	Wed	Thursday	Friday
11:30am-1:20pm	Math 137-002 E346	Math 137-002 E346	Math 137-002 E346	Math 137-002 E346	
1:30-2:30pm		Office Hour		Office Hour	
5:00-5:50pm	Office Hour		Office Hour		
6:00-7:50pm	Math 135-003 E346		Math 135-003 E346		
Additional Office Hours by Appointment					

**Important Dates:**

Jan 11	First day of classes
Sep 6	First Day of Classes
Sep 20	Fee Deadline
Oct 10	Thanksgiving
Nov 8	Withdrawal Deadline
Nov 11	Remembrance Day
Dec 10	Last day of classes for Fall term
Dec 12-17, 19,20	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>

**2. Course Materials and Support**

**Required Materials:**

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

**Supplementary Materials:**

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



**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**

<b>Review of Basic Algebra</b>	<b>Rational Expressions, Equations, and Functions</b>
R.1 Set of Real Numbers	5.1 Rational Expressions, Functions: Mult./Div.
R.2 Operations with Real Numbers	5.2 LCMs, LCDs, Addition and Subtraction
R.4 Introduction to Algebraic Expressions	5.3 Division of Polynomials
R. 5 Equivalent Algebraic Expressions	5.4 Complex Rational Expressions
R. 6 Simplifying Algebraic Expressions	5.5 Solving Rational Equations
<b>Solving Linear Equations and Inequalities</b>	5.6 Uniform Motion Applications
1.1 Solving Equations	5.7 Formulas and Applications
1.2 Formulas and Applications	5.8 Variation and Applications
1.3 Applications and Problem Solving	<b>Radical Expressions, Equations, and Functions</b>
1.4 Sets, Inequalities, and Interval Notation	R.3 Exponential Notation and Order of Operations
1.5 Intersections, Unions, and Compound Inequalities	R. 7 Properties of Exponents and Scientific Notation
1.6 Absolute-Value Equations and Inequalities	6.1 Radical Expressions and Functions
<b>Graphs, Functions, and Applications</b>	6.2 Rational Numbers as Exponents
2.1 Graphs of Equations	6.3 Simplifying Radical Expressions
2.2 Functions and Graphs	6.4 Addition, Subtraction, and More Multiplication
2.3 Finding Domain and Range	6.5 More on Division of Radical Expressions
2.4 Linear Functions: Graphs and Slope	6.6 Solving Radical Equations
2.5 More on Graphing Linear Equations	6.7 Applications Involving Powers and Roots
2.6 Finding Equations of Lines: Applications	6.8 The Complex Numbers
<b>Systems of Equations</b>	<b>Quadratic Equations and Functions</b>
3.1 Systems of Equations in Two Variables	7.1 Basics of Solving Quadratic Equations
3.2 Solving by Substitution	7.2 The Quadratic Formula
3.3 Solving by Elimination	7.3 Applications Involving Quadratic Equations
3.4a Solving Applied Problems	7.4 More on Quadratic Equations
3.7ab Systems of Inequalities in Two Variables	7.5 Graphing $f(x) = a(x - h)^2 + k$
<b>Polynomial and Polynomial Functions</b>	7.6 Graphing $f(x) = ax^2 + bx + c$
4.1 Introduction to Polynomials and Polynomial Functions	7.7 Mathematical Modeling with Quadratic Functions
4.2 Multiplication of Polynomials	
4.3 Introduction to Factoring	<b>Trigonometry</b> (in class notes and online resources)
4.4 Factoring Trinomials: $x^2 + bx + c$	Trig functions of Acute Angles
4.5 Factoring Trinomials: $ax^2 + bx + c$	Applications of Right Triangles
4.6 Special Factoring	Trig Functions of Any Angles
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	Wednesday	Thursday	Friday
1	Sep 5-9	Holiday	Review	<i>Review/1.1</i>	<i>1.1</i>	
2	Sep 12-16	1.2 Asst Chap R	1.3	1.4/1.5	1.6	
3	Sep 19-23	2.1 Asst Chap 1	2.2/2.3 <i>Fee deadline</i>	2.4/2.5	2.6	
4	Sep 26-30	3.1/3.2 Asst Chap 2	3.3	3.4a/3.7ab	<b>Test 1</b> (Chaps R, 1&2)	
5	Oct 3-7	4.1/4.2 Asst Chap 3	4.3/4.4	4.5	4.6	
6	Oct 10-14	Holiday	4.7	4.8	5.1	
7	Oct 17-21	5.2 Asst Chap 4	5.3	5.4	<b>Test 2</b> (Chaps 3&4)	
8	Oct 24-28	5.5	5.6	5.7/5.8	6.1	
9	Oct 31-Nov 4	6.2 Asst Chap 5	6.3	6.4	6.5	
10	Nov 7-11	6.6 Asst Chap 6.1-6.5	6.7 <i>Withdrawal Deadline</i>	6.8	<b>Test 3</b> Chap 5, Chap 6.1-6.5	Remembrance Day
11	Nov 14-18	7.1 Asst Chap 6.6-6.8	7.2	7.3	7.4	
12	Nov 21-25	7.5	7.6	7.6	7.7	
13	Nov 28-Dec 2	Trig Asst Chap 7	Trig	Trig	<b>Test 4</b> Chap 6.5-6.8 Chap 7	
14	Dec 5-9	Trig In Class Asst	Trig In Class Asst	Review	Review	
Final exam period: Dec 12-17, 19,20						

# MyMathLab

## Welcome Students!

*MyMathLab* is an interactive website where you will do your assignments. You can

- Access the full Etext
- Work through assignments, self-test and do practice exercises with step-by-step help to improve your math skills.
- Study more efficiently with a personalized study plan and exercises that match your book.
- Get help when YOU need it. MyMathLab includes multimedia learning aids, videos, animations, and live tutorial help.

## Before You Begin:

To register for MyMathLab, you need:

- A MyMathLab student access code
- Your instructors' Course ID: **frost46176**
- A valid email address

## Student Registration:

- Enter [www.mymathlab.com](http://www.mymathlab.com) in your web browser.
- Click on Register on the top right hand of the screen.
- Under Register, click **Student**. Then OK! Register Now.
- Enter your **Course ID: frost46176** 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.*
- Sign in or follow the instructions to create an account. Use an email address that you check and, if possible, use that same email address for your username. Read and accept the License Agreement and Privacy Policy.
- Click **Access Code**. Enter your **Access Code** in the boxes and click **Next**. *If you do not have an access code you can buy it at the bookstore(cheaper than using PayPal).*

***You can get 14 days of free temporary access (Look for a link near the bottom of the page) to start the program now so you don't miss any assignments.***

Once your registration is complete, a **Confirmation** page appears. You will also receive this information by email. Make sure you print the Confirmation page as your receipt. Remember to **write down your username and password**. You are now ready to access your resources!

## Signing In:

- Go to [www.mymathlab.com](http://www.mymathlab.com) and click **Sign in**.
- Enter your **username** and **password** and click **Sign In**.
- On the left, click the name of your course.

The first time you enter your course from your own computer and anytime you use a new computer, click the **Installation Wizard** or **Browser Check** on the Announcements page. After completing the installation process and closing the wizard, you will be on your course home page and ready to explore your MyMathLab resources!

## Need help?

Contact Product Support at <http://www.mymathlab.com/student-support> for live CHAT, email, or phone support at 1-866-952-8628.