



School of Access  
Community Learning Partnerships

## **Mathematics 053 D19** **Intermediate Mathematics 2** Fall 2012 Course Outline

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This course outline is available online at <http://www.lwebs.ca/index.php/courses/>

Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records.

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### **Calendar Description**

See the Mathematics Course Descriptions and Prerequisites at  
<http://camosun.ca/learn/calendar/2012/web/math.html>

### **Course Requirements:**

- i. An Access Code for our online classroom based on *Intermediate Algebra*, 10<sup>th</sup> or 11<sup>th</sup> edition, Marvin Bittinger. This access code is available for purchase online at the publisher's website -- <http://mathxl.com>.  
NOTE: The Access Code also provides access to a plethora of textbook publisher online resources including animations, videos, podcasts and digital pages of the textbook. A hard copy of the text book is optional.
    - a) Unrestricted access to an Internet connected computer. See Computer System Requirements at <http://mathxl.com/support/system.htm>.
    - b) Scientific calculator. The Sharp EL 531W model is the calculator recommended by the Camosun math department.
- Exit Grade: You need a grade of at least a B in to continue into Math 072.

### **Important Dates**

See <http://camosun.ca/learn/calendar/current/important-dates.html>

### **Workload**

Expect to commit to 15 to 20 hours per week to complete the course in one term. Double that to complete two courses in one term.

### **Instructor Information**

Instructor -- Martin Buck

- a) Office hours: 24 hours a day and seven days a week. See the contact info below. Expect a response within one school day. Skype and phone appointments with the instructor are also available by prior arrangement.
- b) Location: The online classroom is located at <http://mathxl.com>.
- c) Instructor's website: <http://lwebs.ca>  
Students are invited to join my math circle at Google + by clicking on this link  
<https://plus.google.com/i/1k-fvVjrv38:mjHUmLBAeNO>
- d) E-mail: [martin@lwebs.ca](mailto:martin@lwebs.ca)  
Skype: [mbuck\\_skype](#)

## Course Information

This mastery learning and fixed paced course is designed to be completed in one term or less. Depending on your beginning level of math skills, motivation, learning rate, and how much time you can actually devote to learning math; you may be able to complete more than one level per term.

Your first task is to login to the online classroom. Instructions on how to gain access are available at <http://www.lwebs.ca/index.php/gaining-access/>. When you have logged into the course homepage, you will see a list of assignments and their due dates. Plan on completing each assignment several days ahead of the due date. For instructions on how the online system works, review the information at <http://www.lwebs.ca/index.php/the-online-math-system/>.

## Assignments

All assignments will be completed online. You are responsible for regularly logging into the website and completing the assignments well ahead of the due dates. Please note that the MathXL system keeps track of how much time you devote to each of the assignments. If you miss a due date for a pre-test or a post-test, a score of zero will be applied, the instructor may allow you to move on to the Homework Assignments. Late penalties of 10% per day will be applied to Homework Assignments as well as Unit Finals. The last day to submit assignments will be last day of instruction for the term as listed at the [college website](#). The last day to write the final exam will be announced in the online classroom.

## Tips for Success

The secret to success in math is practice, practice and practice. Plan on spending 15 to 20 hours each week on your math. Do your homework every week day. Work several days ahead of assignment due dates. While the use of the multimedia materials of animations, podcasts and videos is optional, they can explain things in an easy to understand way. You will find links to these under the **Homework and Tests** button in the online classroom.

<b>Grade Calculation:</b>	*Online Pre and Post-tests	15%
	Online Homework Assignments	25%
	Study Plan Exercises	10%
	**Five Unit Tests	25%
	***Final Exam	25%

\*The goal for each pre and post-test is 80% or better.

\*\*If you score less than 75% on a unit test, you will need to rewrite the test before you continue.

Note: Tests can only be rewritten once for a total of two times and all test scores are averaged to calculate a final mark.

\*\*\*There is no rewrite on the final exam. If the average of your term mark and your exam mark is not high enough to proceed into Math 072 or your chosen program, then you need to repeat Math 053.

## Standard Grading System (GPA)

0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100
<b>F</b>	<b>D</b>	<b>C</b>	<b>C+</b>	<b>B-</b>	<b>B</b>	<b>B+</b>	<b>A-</b>	<b>A</b>	<b>A+</b>

**NS** -- You will be assigned a "no show" grade if you do not login to the online classroom.

**W** -- If you unable to devote the time required to succeed in the course, then you need to officially withdraw to avoid getting an F. See Important Dates link above for the last day to do that.

**IP** -- An "in-progress" grade is only given in self-paced courses. If you have not finished the course at the end of the term but have successfully completed at least 3 unit tests that term, then you may request a transfer to a self-paced section and awarded an IP grade so you can complete the course the next term. NOTE: You may only receive two IP grades for a course; the third time you register for the course, you will be assigned an F if you do not complete the course.

## Assignments

All assignments are completed online. To access your online assignments, login to your online classroom at <http://mathxl.com> and click on the **Homework and Tests** button. Plan on completing at least one assignment every week day of the school term. To complete two courses in one term, complete at least two assignments per week day. Assignments, except for the final exam, can be completed online anytime of the day or night. The final exam is completed under invigilated or supervised conditions either on campus or through an invigilator arranged by the student and approved by the instructor. More details will be found in **Announcements** area of the online classroom at <http://mathxl.com>.

For specific assignment details and due dates, login to your online classroom at <http://mathxl.com>. Upcoming assignments are listed on the course homepage. Click on the **Calendar** button for a list of all assignments and their due dates.

Chapter	MATH 053 course content
	<b>Unit R – Arithmetic Review (no calculator)</b> (does not count towards final grade)
	<b>Unit R Pre-test</b>
R.2	Fraction Notation
R.3	Decimal Notation
	<b>Unit R Post-test</b>
	<b>Unit R Exam (no calculator)</b>
	<b>Unit 1 – Real Numbers and Algebraic Expressions</b>
	<b>Unit 1 Pre-test</b>
7.1	Introduction to algebra
7.2	The real numbers
7.3	Addition of real numbers
7.4	Subtraction of real numbers
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
	<b>Unit 1 Post-test</b>
	<b>Unit 1 Exam</b>
	<b>Unit 2 Solving Equations and Inequalities</b>
	<b>Unit 2 Pre-test</b>
8.1	Solving equations: the addition 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
8.7	Solving inequalities
8.8	Applications and problem solving with inequalities
	Summary and review
	Chapter test
	<b>Unit 2 Post-test</b>
	<b>Unit 2 Exam</b>

Chapter	MATH 053 course content
	<b>Unit 3 Graphs of Linear Equations</b>
	<b>Unit 3 Pre-test</b>
9.1	Graphs and applications
9.2	Graphing linear equations
9.3	More with graphing and intercepts
9.4	Slope and applications
9.5	Graphing using the slope and y-intercept
	Summary and review
	<b>Unit 3 Post-test</b>
	<b>Unit 3 Exam</b>
	<b>Unit 4 – Polynomials: Operations</b>
	<b>Unit 4 Pre-test</b>
10.1*	Integers as exponents
10.2*	Exponents and scientific notation
	* also complete supplementary exercises on <a href="#">exponents</a> (#1-25)
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
	Summary and review
	Chapter test
	<b>Unit 4 Post-test</b>
	<b>Unit 4 Exam</b>
	<b>Unit 5 – Polynomials: Factoring</b>
	<b>Unit 5 Pre-test</b>
11.1	Introduction to factoring
11.2	Factoring trinomials of the type $x^2 + bx + c$
	Summary and review
	Chapter test
	<b>Unit 5 Post-test</b>
	<b>Unit 5 Exam</b>
	<b>Final Exam</b>
	<b>MATH 053 Final Pre-test</b>
	<b>MATH 053 Final Post-test</b>
	<b>MATH 053 Final Exam</b>

## **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://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf>

## **ACADEMIC PROGRESS POLICY**

There is an Academic Progress Policy designed to enhance a learner's likelihood of success. Students should 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://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf>