



School of Access  
Community Learning Partnerships  
**MATH 038 S17**  
Fundamental Math for Trades  
**Course Outline – Fall 2012**



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**Class Hours:** Mo & Fr 10:00-11:50; We 1:00-2:50

**Phone #:** 250-544-2192  
**Office Hours:** Mo, Fr: 9-10

### Calendar Description

This course provides a brief trades-oriented review of the basic computational and problem-solving skills required for further study in various Trades Foundation programs. Topics include: whole numbers, fractions, decimals, proportion, percent, powers, roots, graphs, formulas, measurement, and geometry.

**Prerequisite(s):** MATH 034, or assessment.

<http://camosun.ca/learn/calendar/current/web/math.html>

### Intended Learning Outcomes

(complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website <http://www.aved.gov.bc.ca/abe/handbook.pdf>)

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

1. demonstrate knowledge and skills in using the principles and operations of arithmetic and measurement
2. apply a variety of strategies in solving math-related problems
3. apply knowledge and skills in arithmetic and measurement to solve problems related to the Professional Cook Foundations Program
4. use knowledge of arithmetic, measurement, and applied problems as a basis for further study in the Professional Cook Foundations Program

### Required Materials

- (a) textbook: *Line B, Solve Mathematical Problems, Trades Common Core*
- (b) course outline: including *Applied Math Problems for the Professional Cook Program*
- (c) scientific calculator
- (d) optional supplementary materials from MATH 032/033/034

### Course Content and Schedule

#### Self-paced Instructions

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 work on this course. Students generally need to spend 5–15 hours of study time per week, either at the college or at home, to complete a math course within 4 months.

The table below lists the six competencies or chapters in the Line B text that are required for the Professional Cook Foundations Program. Follow these steps to complete each competency:

1. skip the Pre-Test
2. study the explanations and examples
3. answer and check **all** questions in the order listed in the table below
4. complete all of the Professional Cook Applied Problems for that competency
5. ask the instructor for help whenever you need it

To prepare for the Final Test, write the Practice Test and review your results with the instructor.

### Basis of Student Assessment (Weighting)

The course grade is either COM (complete) or NC (not complete), and is based on the student's score on the Final Test, which covers all of the required units (passing score 75%).

**Note:**

Students with a record of poor attendance OR poor progress may be restricted from re-registering in Academic and Career Foundations Department courses.

### Grading System

COM    complete                      NC    not complete

MATH 038 course content	Line B page #	question #		
<b><i>Competency B-1 – Whole Numbers</i></b>				
	5	1-4		
	3	1-5		
	7	1-5		
<b><i>Competency B-2 – Fractions</i></b>				
	15	1-4		
	17	1-4		
	20	1-4		
	21	1-5		
	11	1-20		
	23	1-15		
<b><i>Competency B-3 – Decimals</i></b>				
	32	1-2		
	33	1-2		
	37	1-5		
	29	1-10		
	38	1-15		

<b>Competency B-4 – Metric and Imperial Measurements</b>				
	46	1-2		
	49	1-6		
	43	1-2		
	50	1-2		
<b>Competency B-5 – Ratio and Proportion</b>				
	59	1-12		
	55	1-10		
	62	1-10		
<b>Competency B-6 – Percent</b>				
	69	1-4		
	73	1-4		
	67	1-5		
	74	1-5		
<b>Competency B-7 – Powers and Roots</b>				
	82	1		
	84	1		
	79	1-3		
	85	1-3		
<b>Competency B-8 – Graphs</b>				
	93	1-5		
	96	1-2		
	89	1-5		
	98	A-E		
<b>Competency B-9 – Formulas</b>				
	111	1-5		
	105	1-7		
	115	1-5		
<b>Competency B-10 – Perimeters, Areas, and Volumes</b>				
	125	1-8		
	121	1-8		
	129	1-8		
<b>Competency B-11 – Angles and Triangles</b>				
	142	1-4		
	135	1-6		
	151	1-6		
MATH 038 Practice Test				
MATH 038 Final Test				

## **Recommended Materials or Services to Assist Students to Succeed Throughout the Course**

### **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://www.camosun.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, or the College web site at:

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

### **STUDENT GRADING POLICY**

A new student grading policy is in effect for students in the School of Access. This information is available in the College Calendar, Registrar's Office or the College web site at:

<http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.5.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 or the College web site at:

<http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf>