



School of Access
Community Learning Partnerships Department

MATH 034 Fundamental Mathematics 7

COURSE OUTLINE

*The Approved Course Description is available on the College website
<http://www.camosun.ca/learn/calendar/current/>*

1. Instructor Information

- (a) Instructor: Karen Lightbody
- (b) Office hours: 12:30 -1:00 pm and 4:00 – 4:30 Tuesday and Thursday
- (c) Location: OFF CAMPUS -- Bridges for Women Society
- (d) Phone: 250-588-8277
- (e) Email: lightbodyk@camosun.bc.ca

2. Intended Learning Outcomes

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

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

1. use mathematics at an ABE Fundamental level with competence
2. demonstrate knowledge and skills in using the principles and operations of basic arithmetic, measurement, and data analysis
3. apply a variety of strategies in solving math-related problems
4. apply knowledge and skills in basic arithmetic, data analysis, measurement, and geometry to solve problems related to employment, consumerism, personal finance, and other aspects of daily life
5. use knowledge and skills in arithmetic, data analysis, measurement, and geometry as a basis for further study in algebra, geometry, trades math, and other programs

3. Required Materials

- (a) textbook: *Developmental Mathematics*, 6th/7th/8th edition, Marvin Bittinger/Judith Beecher
- (b) basic calculator (scientific calculator recommended; Sharp EL-531X or EL-531W for MATH 072/135)

Supplementary Materials

- (c) *Student's Solutions Manual*, Judith Penna (for sale in the bookstore; available for reference in the classroom)
- (d) *Instructor's Solutions Manual*, Judith Penna (for reference in the classroom)
- (e) website www.mymathlab.com (online text, tutorials, videos, and testing)

4. Course Instructions and Content

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

- for each section of the 034 text listed in the table below, read the explanations, study the Examples, do the Margin Exercises, and then work through and check all or at least some of the more difficult odd-numbered problems in the Exercise Set (do not hesitate to ask your instructor whenever you need help)
- to prepare for the final test for each unit, do the Summary and Review exercises and write the Chapter Test at the end of the chapter, and correct all of your errors
- review your final test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the final test if you score less than 75% (all test scores count)
- calculators may not be used on the final tests for units 1 – 3
- note that unit 6 is covered by parts of chapter 6 and Appendixes A–D at the back of the text

8th ed'n	7th ed'n	MATH 034 course content	
		Unit 1 – Whole Numbers (15 days)	
1.1	1.1	Standard notation; order	
1.2	1.2	Addition and subtraction	
1.3	1.3	Multiplication and division; rounding and estimating	
1.4	1.4	Solving equations	
1.5	1.5	Applications and problem solving	
1.6	1.6	Exponential notation and order of operations	
1.7	1.7	Factorizations	
1.8	1.8	Divisibility	
1.9	1.9	Least common multiples	
		Summary and review	
		Chapter test	
		Unit 1 final test (no calculator)	
		Unit 2 – Fraction Notation (20 days)	
2.1	2.1	Fraction notation and simplifying	
2.2	2.2	Multiplication and division	
2.3	2.3	Addition and subtraction; order	
2.4	2.4	Mixed numerals	
2.5	2.5	Applications and problem solving	
2.6	2.6	Order of operations; estimation	
		Summary and review	
		Chapter test	
		Unit 2 final test (no calculator)	
		Unit 3 – Decimal Notation (15 days)	
3.1	3.1	Decimal notation, order, and rounding	
3.2	3.2	Addition and subtraction	
3.3	3.3	Multiplication	
3.4	3.4	Division	
3.5	3.5	Converting from fraction notation to decimal notation	
3.6	3.6	Estimating	
3.7	3.7	Applications and problem solving	
		Summary and review	
		Chapter test	
		Unit 3 final test (no calculator)	
8th ed'n	7th ed'n	MATH 034 course content	
		Unit 4 – Percent Notation (20 days)	
4.1	4.1	Ratio and proportion	
4.2	4.2	Percent notation	
4.3	4.3	Percent and fraction notation	
4.4	4.4	Solving percent problems using percent equations	
4.5	4.5	Solving percent problems using proportions	
4.6	4.6	Applications of percent	
4.7	4.7	Sales tax, commission, and discount	
		Summary and review	
		Chapter test	
		Unit 4 final test	
		Unit 5 – Data, Graphs, and Statistics (15 days)	
5.1	5.1	Averages, medians, and modes	
5.2	5.2	Tables and pictographs	
5.3	5.3	Bar graphs and line graphs	
5.4	5.4	Circle graphs	
		Summary and review	
		Chapter test	

		Unit 5 final test
		Unit 6 – Measurement and Geometry (15 days)
A*	A*	Linear measures: American units and metric units (*Appendices)
B*	B*	Weight and mass; medical applications
C*	C*	Capacity; medical applications
D*	D*	Time and temperature

6.2	6.2	Perimeter
6.3	6.3	Area
6.4	6.4	Circles
6.5a	6.5a	Volume and surface area
		Summary and review
		Unit 6 final test day 100

5. Basis of Student Assessment (Weighting)

Tests :100% of the course grade is based on the average of **all** unit final test scores (including both passing and failing test scores)

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

6. Grading System

A+	90–100%	B+	77–79%	C+	65–69%
A	85–89%	B	73–76%	C	60–64%
A–	80–84%	B–	70–72%	IP	in progress

7. Learning Support and Services for Students

Academic Upgrading Help Centre (CBA 109 Interurban campus)

Math Help Centre (Ewing 342 Lansdowne Campus)

Help with coursework, reference & learning materials library,
computers & printer, quiet testing & study areas

There are many other Camosun services available to help you succeed in and out of the classroom, including education planning, learning and personal support, campus life, work and housing, and getting around.

This information is available at Registration or the College web site <http://camosun.ca/services/>

8. College Policies

ACADEMIC PROGRESS

The purpose of this policy is to enhance a learner's likelihood of success, and to encourage the learner to use College resources effectively.

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

GRADING

The purpose of this policy is to ensure that grading and promotion are consistent and fair.

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

STUDENT CONDUCT

The purpose of this policy is to provide clear expectations of appropriate academic and non-academic student conduct, and to establish processes for resolution of conduct issues or the imposition of sanctions for inappropriate conduct.

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