

School of Access Academic and Career Foundations Department

MATH 034 Fundamental Mathematics 7

Fall 2013(September 3, 2013 to December 13, 2013)

Section S09

# **COURSE OUTLINE**

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

1. Instructor Information

Instructor:\_\_\_\_Augustin Rusekampunzi\_\_\_\_\_

Phone:\_\_\_\_2503703945\_\_\_\_\_\_

Office Hours: Tuesday and Thursday (2000 to 2100) \_\_\_\_\_

Office:\_\_\_\_E342\_\_\_\_\_

Help Centre Hours: \_\_Tuesday and Thursday (1600 to 1700) \_\_\_\_\_

E-mail:\_\_\_\_\_ruse@camosun.bc.ca\_\_\_\_\_

Location of Course: Lansdowne Campus (E 344).

## 2. Intended Learning Outcomes

(complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website <a href="http://www.aved.gov.bc.ca/abe/docs/handbook">http://www.aved.gov.bc.ca/abe/docs/handbook</a>.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*, 6<sup>th</sup>/7<sup>th</sup>/8<sup>th</sup> 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.

- (a) 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 oddnumbered problems in the Exercise Set (do not hesitate to ask your instructor whenever you need help)
- (b) 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
- (c) 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)
- (d) calculators may not be used on the final tests for units 1-3
- (e) note that unit 6 is covered by parts of chapter 6 and Appendixes A-D at the back of the text

ed'n   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 abc     abc   operations     1.7   1.7     Factorizations   1.8     1.8   1.8     Divisibility   1.9     1.9   Least common multiples     Summary and review   Chapter test     Unit 2 – Fraction Notation (20 days)     2.1   Z.1     Fraction notation and simplifying     2.2   2.2     Multiplication and division     2.3   Addition and subtraction; order     2.4   2.4     Mixed numerals     2.5   2.5     Applications and problem solving     2.6   Order of operations; estimation     Summary and review   Chapter test     Unit 3 – Decimal Notation (15 days) <th>8th</th> <th>7th</th> <th colspan="4">MATH 034 course content</th>	8th	7th	MATH 034 course content			
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Chapter test						
			Chapter test			
			Unit 3 final test (no calculator)			

8th	7th	MATH 034 course content			
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		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 abc	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	Statistics (15 days) 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			
A*	A*	<i>Geometry</i> (15 days) 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	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%
А	85-89%	В	73–76%	С	60–64%
A–	80-84%	B–	70–72%	IP	in progress

## 7. Learning Support and Services for Students

## ACADEMIC UPGRADING HELP CENTRE (E342)

Help with coursework, reference and learning materials library, computers and printer, quiet testing and 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 <u>http://camosun.ca/services/</u>

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

### 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

### 9. MATH 034 Essential Skills (based on learning outcomes, coursework and classroom interaction)

**Numeracy**: numerical calculation and measurement (arithmetic, metric and imperial measurement, graphs, data analysis, formulas, geometry)

- Convert between fractions, decimals, and percents
- Add, subtract, multiply and divide rational numbers
- Solve application problems involving arithmetic, metric and imperial measurement, graphs, data analysis, formulas and geometry
- Use order of operations
- Use the common metric and imperial units for temperature, length, volume and mass
- Convert between and within metric and imperial units using tables and/or calculators
- Use formulas to solve related application problems
- Read, write, and use ratios and proportions to solve percent and other application problems
- Extract and interpret information from line, bar and circle graphs
- Draw line and bar graphs
- Solve simple equations, formulas and related application problems
- Use formulas to find perimeter and area of triangles, squares, rectangles, parallelograms, trapezoids, circles and composite figures
- Use formulas to find the surface area and volume of rectangular solids
- Calculate median, mean, and mode

#### Reading

- Scan for key information
- Read and correctly follow written directions
- Read a full text to understand, learn or evaluate
- Integrate and synthesize information from multiple sources
- Refer to appropriate written (hardcopy or online) resources when experiencing difficulty

#### **Document Use**

- Interpret information in graphs or charts
- Use a table of contents or index to find specific information

### Writing

- Organize, record and document
- Write notes in point form

#### Oral Communication

- Follow oral instructions and explanations
- Seek or obtain information from peers and instructor

#### Working with Others

- Work independently alongside others
- Use appropriate and respectful communication with peers and others
- Receive and apply relevant feedback

#### Thinking Skills

- Apply prior learning to facilitate effective study and to integrate information from a text with background knowledge from outside the text
- Identify learning strengths
- Identify and set short and long term goals
- Maintain a personalized learning plan within an individualized educational setting
- Identify key facts and issues related to a problem
- Apply a variety of strategies in solving math-related problems
- Check that answers and solutions to problems are reasonable
- Build strategies for successfully writing math tests
- Prioritize tasks
- Use tools (calendars, agendas, checklists) to help organize tasks and for time management
- Identify, compare, contrast & critically evaluate multiple pieces of information while reading/listening/viewing

#### Digital Technology

- Use a scientific calculator
- May use online tools to communicate and to learn and practice mathematical skills

#### Continuous Learning

- Deepen understanding of skill strengths and areas in need of improvement
- Recognize preferred learning styles (learning by seeing, hearing or doing)
- Try new ways of doing things