

**COURSE OUTLINE**

<b>TERM:</b> FALL 2012	<b>COURSE NO.:</b> BMAF 004
<b>INSTRUCTOR:</b>	<b>COURSE NAME:</b> ABE Fundamental Mathematics 4
<b>OFFICE:</b>	<b>SECTION NO.:</b> <b>COURSE CREDITS:</b> 1.0

**COURSE FORMAT:** Self-paced; 1.5 hours in class and 1.5 hours other mode of delivery such as tutorial in the Developmental Studies Learning Lab or on-line using Moodle. This is a self-paced course; students may complete this course in less or more than 15 weeks.

**PREREQUISITE:** ABE math assessment.

**RECOMMENDED FOLLOW-UP COURSES:** BMAF 005

**LEARNING OUTCOMES:**

- Read and write decimals to 10 000ths
- Round decimals to a given place
- Add decimals
- Subtract decimals
- Multiply decimals by whole numbers
- Multiply decimals by decimals
- Divide decimals by whole numbers
- Divide decimals by decimals
- Divide whole numbers by decimals
- Apply decimals to multi-operation problems
- Use the number line to order and compare
- Identify place value to 10 000ths
- Compare decimal in order of place value
- Multiply decimals by 10;100;1000
- Divide decimals by 10;100;1000
- Calculate unit price
- Use unit price to find the best buy
- Convert between dollars and cents
- Apply addition of decimals in word problems
- Apply subtraction of decimals in word problems
- Apply multiplication of decimals in word problems
- Apply division of decimals in word problems
- Apply decimal to multi-operation word problems
- Explain using examples, length, mass, volume, temperature
- Convert measurements within the metric system using a conversion chart
- Convert measurements within the imperial system
- Measure length using an appropriate metric measuring device
- Measure length using an appropriate imperial measuring device
- Measure mass using an appropriate metric measuring device
- Perform calculations using metric units
- Calculate perimeter and area of squares and rectangles with decimals

**REQUIRED TEXT:** British Columbia. Ministry of Advanced Education and Labour Market Development. *Adult Literacy Fundamental Mathematics Book 4* by Liz Girard and Wendy Tagami. Victoria, BC: Queen's Printer, 2010. Print.

**COURSE CONTENT:**

Unit 1	Working with Decimals
Unit 2	Adding & Subtracting Decimals
Unit 3	Multiplying Decimals
Unit 4	Dividing Decimals
Unit 5	Using Decimals in Real Life
Unit 6	Measurement

**EVALUATION PROFILE:** Credit will be given to students who demonstrate functional mathematical skills at the ABE Fundamental Mathematics 4 level, which is articulated in the Adult Basic Education British Columbia's Public Post Secondary Institution Articulation Handbook.

Credit will be determined by evaluation as follows:

Unit 1	13%	Working with Decimals
Unit 2	13%	Adding & Subtracting Decimals
Unit 3	13%	Multiplying Decimals
Unit 4	13%	Dividing Decimals
Unit 5	13%	Using Decimals in Real Life
Unit 6	13%	Measurement
Final Exam	<u>22%</u>	
Total	100%	

**GRADING PROFILE:** CREDIT/NO CREDIT (Students must achieve 80% for credit)

**OPERATIONAL DETAILS:**

**University Policies:** Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Cheating and Plagiarism, Academic Probation and other educational issues. These and other policies are available on the University website.

**Attendance:** Students who will be absent for any reason should leave a voice or email message for their instructor **prior** to the start of class. ABE department policy is to place students attending less than 75% of classes in a subject on a "non-priority list". Students on the non-priority list register last (after all other students have registered).

**Cheating/Plagiarism:** All forms of cheating including plagiarism are serious offences. The instructor has the right to assign a "0" on the assignment or a grade of "NC" on the course. A second offence in any course may result in expulsion from the program

**Computer use policies:** The misuse of a computer system (such as unauthorized access to other computer accounts or unauthorized use of system software) is not only unfair to other students but can result, at the instructor's discretion, in suspension of the offender's computer access in a course, which may result in an "NC" grade. Repeated offences may result in a permanent revoking of all computer privileges.

**Emergency Procedures:** Please read the emergency procedures posted on the wall of the classroom.