

COURSE OUTLINE

Course Name: Mathematics Level 2

Department Head/Coordinator: Jan Weiten

Effective Date: April 2011

School or Centre:	Department:
Click arrow for options	Basic Education

Course History:	Year of Study:
Replacement Course	Click arrow for options

Name of Replacing Course (if applicable):

Component of Math 031

Course Number:

MATH 0312

Number of Credits:

Course Pre-requisites (if applicable):

Mathematics Level 1 OR - interview w/the Basic Education assessment person/department head & participate in the Fundamental/Intermediate Math assessment co-devl'd by Basic Education/CCA/College Foundations.
 - show an ability to understand & speak or use English by meeting the Basic Education Oral English Fluency Criteria as determined in the initial interview. -read at a minimum of English Level 3 (ENGL 0313) or equivalent

Course Co-requisites (if applicable):

PLAR (Prior Learning Assessment & Recognition)

No Yes (details below):

Each student is placed according to existing skill level. The interview will provide information on existing skill level to determine initial placement.

Course Description:

MATH 0312 is approximately equivalent to a Grade 1.5-3 level in the BC Ministry of Education curriculum. MATH 0312 is the second of six levels of Adult Literacy Fundamental Mathematics, which will give students a strong foundation of basic math skills, concepts, vocabulary and problem solving strategies.

Instructional Strategies:

This course will be taught in a self-paced, individualized format along with group instruction and small group activities.

Course Learning Outcomes:

- Explain or use examples of keywords: multiplier, multiplicand, multiple, multiplication, multiply, product, double, triple, twice, carrying borrowing, of (ex: 2 groups of 3), times, by, expanded notation, perimeter
 - Explain or use examples of place value to 1 000 000 • Show the relationship between multiplication and repeated addition • Read and write whole numbers to 1,000,000 in digits and words
 - Compare and order whole numbers to 1,000,000 (use <; >; =; ≠) • Round whole numbers up to and including 1,000,000 • Add whole numbers without carrying • Subtract whole numbers without borrowing
 - Add whole numbers with carrying • Subtract whole numbers with borrowing • Estimate a sum using whole numbers • Estimate a difference using whole numbers • Multiply two whole numbers that are less than or equal to 10 • Memorize 10 X 10 multiplication chart • Write numbers in expanded notation to 10,000
 - Write numbers as repeated additions or multiplication (ex: $12=6+6$ or $12=2\times 6$)
 - Multiply one digit numbers by 10; 100; 1000 • Apply addition to solve multi-step word problems reflecting real life situations • Apply subtraction to solve multi-step word problems reflecting real life situations
 - Apply multiplication to one-step word problems reflecting real life situations
 - Make change up to \$1.00 • Use manipulatives to explain multiplication • Recognize time using an analog clock
 - Recognize 24 hour system International clock notation • Convert units of time • Convert to and from 12 hour notation to 24 hour notation • Add time units • Subtract time units • Calculate perimeter of a square and a rectangle
- Skills and Strategies for Learning:
- Apply logical thinking to math operations • Work independently • Ask for help • Receive and respond to feedback • Manage time to complete work • Identify short-term personal numeracy goals
 - Identify personal learning strengths and styles • Use a multiplication table grid • Use "Answer Key" to mark and self assess • Locate information in a text book • Check that a question is accurately transferred
 - Organize computation effectively • Use critical thinking skills • Manage frustrations of learning

Program Learning Outcomes:

n/a

Evaluation/Grading System

Grading System	Specify if 'Other':	Specify Passing Grade:
Satisfactory/Unsatisfactory		S

Components and Weighting of the Assessment/Evaluation Plan:

Type	Percentage	Evaluation Plan (provide a brief explanation for each component especially if value exceeds 35%):
Other	100	A mastery model of on-going evaluation will be used. A student will have completed the course when he/she has demonstrated
-		through satisfactory completion of assignments that the learning outcomes have been achieved.
-		Progress will be monitored on a regular basis by the instructor in consultation with each student.
-		
-		
	Total	100

Learning Environment/Type

Instruction Type	Hours Per Instruction Type	Comments
-	10/week	
	2/week	
Enter Total Hours	12	

Resource Material(s):

Resources are items in addition to tuition that the student is responsible for purchasing. Course resource information will be supplied by the department/instructor.

Course Topics and Sequence Covered:

Place value, rounding, adding and subtracting whole numbers to 1 000 000; multiplication facts; perimeter

VCC Education and Education Support Policies

There are a number of **Education** and **Education Support** policies that govern your educational experience at VCC, please familiarize yourself with them.

The policies are located on the VCC web site at:

<http://www.vcc.ca/about-vcc/policies/index.cfm>

To find out how this course transfers, visit the BC Transfer Guide at www.bctransferguide.ca.

FOR COMMITTEE USE ONLY

Date Approved by Education Council:		Date Approved by VCC Board (if applicable):	
-------------------------------------	--	--	--