COURSE OUTLINE

Course Name: Math 11 Part 2

Course Number: MATH 0871 **Number of Credits:** 4.0 **Effective Date:** January 2017

Course Description:

Students are introduced to polynomials and factoring; rational expressions and equations; variation; roots, radical expressions and equations; rational exponents and complex numbers; solving and graphing quadratic equations; and functions. Students use a scientific calculator to evaluate complex expressions with emphasis on using special keys to perform a variety of functions.

Both MATH 0861 and MATH 0871 are required for completion of ABE Advanced level Algebraic Mathematics.

The use of a graphing calculator or other technology is optional.

School or Centre:

School of Arts and Science

Year of Study:

ABE Advanced Level (Grade 11)

Course History:

Revised Course

Name of Replacing Course (if applicable):

Course Pre-requisites (if applicable):

VCC MATH 0861 with a C-, or Foundations of Mathematics and Pre-calculus 10 with a C, or Foundations of Mathematics 11 with a C, or 52% on the VCC Intermediate Algebra Assessment

Course Co-requisites (if applicable):

PLAR (Prior Learning Assessment & Recognition) ☒ No ☒ Yes (details below):

MATH 0871 Challenge Exam with a C-

Instructional Strategies:

Option 1: Self-paced - one-to-one individualized instruction.
Option 2: Class-based: Lecture-based model. Class time is also used for group work, activities, concept-development and problem solving.

Course Learning Outcomes:

Students will meet the learning outcomes for ABE Advanced level Algebraic Mathematics as stated in the most recent ABE Articulation Handbook.

Program Learning Outcomes:

If this course is taken as part of the ABE Graduation Certificate program, see the program Content Guide for the program learning outcomes.

Evaluation/Grading System

Grading System	Specify if 'Other':	Specify Passing Grade:
Letter Grades		D

Components and Weighting of the Assessment/Evaluation Plan:

Type	Percentage	Evaluation Plan (provide a brief explanation for each component especially if value exceeds 35%):
		Option 1: Class-based
Quizzes/Tests	70	Combination of tests, quizzes, assignments and/or midterms
Final Exam	30	OR
		Option 2: Self-paced
Quizzes/Tests		75%: 4 unit tests
Final Exam		25%
Total	**100**	

Learning Environment/Type

Instruction Type	Hours Per Instruction Type	Comments
S - Self-paced	96	
L - Classroom		
-		
Total	**96**	

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:

1. Polynomials and Polynomial Functions
2. Rational Expressions and Equations and Variation
3. Radical Expressions and Equations
4. Quadratic Equations and Functions

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/governance--policies/policies/

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

FOR COMMITTEE USE ONLY

Approved by Curriculum Committee:	October 25, 2016	**Approved by Education Council**:	