UNIVERSITY COLLEGE of the FRASER VALLEY

COURSE IMPLEMENTATION DATE:
COURSE REVISED IMPLEMENTATION DATE: September 2004
COURSE TO BE REVIEWED: December 2007
(Four years after implementation date) (MONTH YEAR format)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.
Shaded headings are subject to change at the discretion of the department and the material will vary - see course syllabus available from instructor

FACULTY/DEPARTMENT: **College and Career Preparation**

MATH 084	**N.A.**	**4**
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS

Introductory Algebra and Trigonometry
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

MATH 084 reviews operations with real numbers and the solution of linear equations. It introduces linear inequalities; the solution of quadratic, rational, and radical equations; operations with polynomial, rational and radical expressions; and the graphing of equations, particularly linear equations. It also reviews basic geometry concepts such as congruency and similarity needed for the study of right angle trigonometry. Right angle trigonometry is used to solve practical problems.

MATH 084 is intended for students who need to gain or refresh knowledge and skills to ensure success at Intermediate Algebra and Trigonometry (MATH 085).

MATH 084 may be used as a math credit for the CCP Advanced Level certificate or the Provincial Adult Dogwood. It can also be used as preparation for some vocational, career, and technical programs. For academic programs, students must complete MATH 085.

PREREQUISITES: **MATH 072, or demonstration of entry-level knowledge and skills on the CCP assesment or the UCFV Math Placement Test; and CCP department permission.**
COREQUISITES: **N.A.**

SYNONYMOUS COURSE(S)
(a) Replaces: **N.A.** *(Course #)*
(b) Cannot take: **N.A.** *(Course #)* for further credit.

SERVICE COURSE TO:
N.A. *(Department/Program)*

TOTAL HOURS PER TERM: **120**
STRUCTURE OF HOURS:

Lectures:	**60**	Hrs
Seminar:		Hrs
Laboratory:		Hrs
Field Experience:		Hrs
Student Directed Learning:		Hrs
Other (Specify): individual and small group work	**60**	Hrs

TRAINING DAY-BASED INSTRUCTION
LENGTH OF COURSE: **N.A**
HOURS PER DAY:

MAXIMUM ENROLLMENT: **28**
EXPECTED FREQUENCY OF COURSE OFFERINGS: **min. 3 sections per semeste**

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	☐ Yes	☐ No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	☐ Yes	☐ No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	☒ Yes	☐ No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Chairperson: _____ *(Curriculum Committee)*

Department Head: _____ Dean: _____

PAC Approval in Principle Date: PAC Final Approval Date: January 28, 2004

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

see attached: Advanced Level –Developmental Mathematics Learning Outcomes from 2003/2004 B.C. *Articulation Handbook*

METHODS:

Methods will vary with instructor but may include lectures, group activities, individual tutoring, textbook exercises, lab activities and assignments.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR (Please check :) ☐ Yes ☒ No

METHODS OF OBTAINING PLAR:

N.A.

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]
Aufmann, Barker, Lockwood: *Introductory Algebra, An Applied Approach.6th Edition*
Geometry/Trigonometry Math 084 Coursepack
M. Johnson. *How to Solve Word Problems in Algebra.*

SUPPLIES / MATERIALS:

Supplies will vary. Students will need a ruler, protractor, graph paper and scientific calculator.

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

assignments/ computer:	15 – 20%
quizzes/tests	25 – 35%
midterm exam	10 – 15%
final exam	35 – 40%

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

1. Operations with real number
2. First degree equations and inequalities
3. Polynomials
4. Rational expressions
5. Linear equations
6. Systems of linear equations
7. Radical expressions
8. Geometry and trigonometry