

COURSE IMPLEMENTATION DATE:
COURSE REVISED IMPLEMENTATION DATE: Fall, 2004
COURSE TO BE REVIEWED: 2006
(Four years after implementation date) (MONTH YEAR)

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:	CCP	
MATH 072		4
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
	Intermediate Algebraic Mathematics	
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

The course assumes a basic proficiency in arithmetic operations and briefly reviews fractions, decimals, ratio, proportion, percent, and the metric system. The major purpose of the course is to prepare students to take advanced level mathematics. Topics include integers, primes and factors; perimeter, area, and volume; formulas, algebraic equations and expressions; coordinate and statistical graphs; powers, roots, and scientific notation. The course also introduces polynomials and right angle trigonometry. The goal of Intermediate Mathematics is to enable adult learners to acquire mathematical knowledge and skills, and strategies needed to enter an appropriate higher level course, or to satisfy personal or career goals.

PREREQUISITES: **Math 061 or individual CCP assessment; and CCP department permission**
COREQUISITES:

SYNONYMOUS COURSE(S)	SERVICE COURSE TO:
(a) Replaces: _____ (Course #)	Health Sciences/licensed practical nursing 1 (Department/Program)
(b) Cannot take: _____ for further credit. (Course #)	Trades (Department/Program)

TOTAL HOURS PER TERM: 120	TRAINING DAY-BASED INSTRUCTION
STRUCTURE OF HOURS:	LENGTH OF COURSE: _____
Lectures: 60 Hrs	HOURS PER DAY: _____
Seminar: _____ Hrs	
Laboratory: 20 Hrs	
Field Experience: _____ Hrs	
Student Directed Learning: _____ Hrs	
Other (Specify): 40 Hrs	
Individual/small group instruction _____	

MAXIMUM ENROLLMENT:	24
EXPECTED FREQUENCY OF COURSE OFFERINGS:	6 sections/semester (Min)
WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Chairperson: _____
CCP Math working group Jean Atkinson, Chair (Curriculum Committee)

Department Head: _____ Dean: _____
Trudy Archie Karen Evans

PAC Approval in Principle Date: _____ PAC Final Approval Date: December 4, 2002

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

Students will:

1. understand the concepts of factors and multiples and apply these to working with whole numbers, fractions, and variable expressions
2. master operations with integers and rational numbers
3. review ratio, proportion, percent, measurement, and statistics.
4. use the Cartesian coordinate system to graph linear equations and find the slope of a straight line using rise/run
5. visualize, understand, and solve problems using a variety of strategies, including the use of algebraic equations
6. understand the concept of a variable and apply it to solving equations and evaluating and simplifying expressions
7. apply concepts of perimeter, area, and volume to solve problems involving a variety of two and three dimensional shapes
8. understand, interpret, and use conventional geometric vocabulary and notation
9. become competent at using the basic operations as well as the exponential and trigonometric functions on a scientific calculator
10. perform operations using powers and roots, and scientific notation
11. demonstrate competence at solving right triangles using the basic trigonometric ratios: sine, cosine, and tangent, and the Pythagorean theorem

METHODS:

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

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

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

A student will be placed in the appropriate mathematics course based on the results of the CCP mathematics assessment test

METHODS OF OBTAINING PLAR:

N/A

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Learning materials will vary with the instructor but may include:

1. Johnston, C.L., Willis, A.T. & Hughes, G.M. (1994). Developmental Mathematics. Scarborough, Ontario: Nelson Canada
2. Wright, D.F. (1997). Prealgebra: A Worktext. New York: Houghton Mifflin Company
3. British Columbia Ministry of Advanced Education, Training and Technology. (1999). Adult Basic Education Intermediate Level Mathematics. Burnaby: Open Learning Agency.

SUPPLIES / MATERIALS:

Supplies and materials will vary; students will need a ruler, compass, protractor, graph paper, and a scientific calculator

STUDENT EVALUATION:

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

Assessment methods will vary with individual instructors but may include: assignments, work with computer programs, quizzes, unit tests, a mid-term examination, and a final examination. Exact weightings and determination of final grades will vary with individual instructors but fall within the guidelines given below:

Assignments/computer 0 - 25%
Quizzes/tests 25 - 50%
Mid-term 20%
Final 30%

Grade	Range	Descriptor of Performance
A's	85 - 100	Excellent, no concerns (A+ = outstanding)
B's	75 - 84	Very good, above average
C's	65 - 74	Able to continue to next course; we think they will be successful (prefer C+)
P	55 - 64	Cannot continue to next course

COURSE CONTENT:

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

Estimating skills and calculator use

Measurement

Perimeter, area, and volume

Ratio and proportion

Percent

Geometry

Statistics

Signed (rational) numbers

Algebra

Powers, roots, and scientific notation

Trigonometry

Graphing