

COURSE IMPLEMENTATION DATE:	[September 1995]
COURSE REVISED IMPLEMENTATION DATE:	[September 2004]
COURSE TO BE REVIEWED:	[January 2008]
(Four years after implementation date)	

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 085	N/A	4
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
Intermediate Algebra and Trigonometry		
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

MATH 085 reviews basic algebraic concepts and skills, including linear functions. Absolute value, polynomial, rational, radical, and quadratic expressions, equations, and functions are studied in detail. Students will use function notation and graph relations and functions. The course reviews right-angle trigonometry and introduces the laws of sines and cosines to solve non-right triangles, with an emphasis on solving practical problems.

MATH 085 is intended to provide the background necessary for success at college level mathematics (MATH 094/095). As a prerequisite for entry into many college and university programs, Math 085 serves as an equivalent to Principles or Applications of Math 11.

PREREQUISITES: At least a C in MATH 084 or demonstration of entry-level knowledge and skills on the UCFV Math Placement Test; and CCP department permission.

COREQUISITES: None

SYNONYMOUS COURSE(S)	SERVICE COURSE TO:
(a) Replaces: <u> N/A </u> (Course #)	<u> N/A </u> (Department/Program)
(b) Cannot take: <u> N/A </u> For further credit. (Course #)	<u> N/A </u> (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: _____ Hrs	
Field Experience: _____ Hrs	
Student Directed Learning: _____ Hrs	
Other (Specify): 60 Hrs	
Individual and small group work.	

MAXIMUM ENROLLMENT:	28
EXPECTED FREQUENCY OF COURSE OFFERINGS:	Minimum 2 sections/per semester
WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	X Yes <input type="checkbox"/> No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	<input type="checkbox"/> Yes <input type="checkbox"/> No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	X Yes <input type="checkbox"/> No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ Jean Atkinson	Chairperson: _____ Jean Atkinson (Curriculum Committee)
Department Head: _____ Vicki Grieve	Dean: _____ Karen Evans
PAC Approval in Principle Date: _____	PAC Final Approval Date: January 28, 2004

MATH 085
Intermediate Algebra & Trigonometry
 COURSE NAME/NUMBER

LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:

Successful students will be able to:

1. manipulate basic algebraic expressions such as exponents, radicals, and complex fractions.
2. solve a variety of equations, including linear, quadratic, rational, absolute value, and radicals.
3. solve a variety of practical applications problems involving motion, work, area and ratios.
4. graph functions without the use of a graphing calculator.
5. to improve their speed and accuracy in mathematical calculations and manipulations and thereby be better prepared for entry into the next level of mathematics, MATH 094.

This course will help returning adult students review their math skills in order to be successful in a program that requires mathematical comprehension.

METHODS:

Lectures to demonstrate methods as well as problem sessions, guided individual and small group work.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR

Yes

No

METHODS OF OBTAINING PLAR:

Course challenge.

TEXTBOOKS, REFERENCES, MATERIALS:

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

Recent text:

Bittinger, *Intermediate Algebra*, 8th Ed.

SUPPLIES / MATERIALS:

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

A scientific calculator and a trigonometry package, available in the bookstore.

STUDENT EVALUATION:

(An example of student evaluation for this course might be:)

Assignments and quizzes	16 - 20%
Tests	40 - 44% (3 or 4)
Final Exam	40%

Letter grades are assigned.

Students must achieve at least 40% on the final exam to receive credit for this course.

MATH 085

Intermediate Algebra & Trigonometr

COURSE NAME/NUMBER

COURSE CONTENT:

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

1. Exponents: positive, negative, and rational.
2. Equations: linear, quadratic, literal, absolute value, and radicals.
3. Inequalities.
4. Applications include motion, area, work, and ratio problems.
5. Polynomials.
6. Factoring including cubes and four terms.
7. Rational expressions and equations.
8. Graphing straight lines and quadratics.
9. Radicals.
10. Trigonometry: Law of Sines and Cosines and applications.
11. Functions.