

COURSE IMPLEMENTATION DATE:	March 1992
COURSE REVISED IMPLEMENTATION DATE:	January 1997
COURSE TO BE REVIEWED:	January 2001
(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:	<b>MATHEMATICS</b>	
<b>MATH 105</b>		<b>4</b>
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
<b>MATH FOR THE ELEMENTARY SCHOOL TEACHER</b>		
COURSE DESCRIPTIVE TITLE		

**CALENDAR DESCRIPTION:**

It has been recognized by various study groups that if a teacher is not at ease with mathematics, those resulting fears and prejudices are communicated to the students. This course is designed to give direct experience of mathematics and to allow you to experience your own thinking ability, thereby restoring confidence in your mathematical ability. We must understand the subject before we can teach it. It should be stressed that Math 105 is a mathematics course aimed at developing mathematical ability and is not a course in methods of teaching. Topics include properties of real numbers, the basis of arithmetic, other systems of enumeration, plane geometry, functions, probability, and statistics.

**PREREQUISITES:** Math 11 with at least a C, or Math 084/085 with at least a C, or a C+ in Applications of Math 11

**COREQUISITES:** None

SYNONYMOUS COURSE(S)	<b>SERVICE COURSE TO:</b>
(a) Replaces: _____ (Course #)	_____
(b) Cannot take: _____ for further credit. (Course #)	_____

TOTAL HOURS PER TERM: <b>75</b>	TRAINING DAY-BASED INSTRUCTION
<b>STRUCTURE OF HOURS:</b>	LENGTH OF COURSE: _____
Lectures: <b>75</b> Hrs	HOURS PER DAY: _____
Seminar: _____ Hrs	
Laboratory: _____ Hrs	
Field Experience: _____ Hrs	
Student Directed Learning: _____ Hrs	
Other (Specify): _____ Hrs	

MAXIMUM ENROLLMENT:	<b>35</b>
EXPECTED FREQUENCY OF COURSE OFFERINGS:	
<b>WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No

**AUTHORIZATION SIGNATURES:**

Course Designer(s): _____ L. Riva/ J. Cannon	Chairperson: _____ N/A (Curriculum Committee)
Department Head: _____ S. Milner	Dean: _____ W. Welsh
PAC Approval in Principle Date: _____	PAC Final Approval Date: November 27, 1996

**COURSE NAME/NUMBER**

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**LEARNING OBJECTIVES / GOALS / OUTCOMES / LEARNING OUTCOMES:**

As per catalogue description.

**METHODS:**

A mix of lecture, demonstration, small group practice, discussion, audiovisual presentation and use of models and charts.

**PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):**

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

**METHODS OF OBTAINING PLAR:****TEXTBOOKS, REFERENCES, MATERIALS:**

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

Modern Mathematics by Wheeler (7<sup>th</sup> Ed.)

**SUPPLIES / MATERIALS:****STUDENT EVALUATION:**

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

Term tests	40%
Term work and assignments	20%
Final exam	40%

**COURSE CONTENT:**

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

Topics will include:

1. Critical thinking  
Problem solving techniques
2. Sets, Venn diagrams, logic
3. Early numeration systems  
Hindu-Arabic system, other number bases
4. Whole numbers – their operations, properties, algorithms
5. Number theory – primes, composites, factors
6. Integers  
Rational numbers as fractions and as decimals  
Irrational and real numbers
7. An introduction to algebra
8. Geometric shapes – two dimensional, three dimensional
9. Measurement – length, area, volume
10. Geometric transformations  
Geometric constructions

11. An introduction to probability and statistics