

COURSE IMPLEMENTATION DATE: [September 1995]
 COURSE REVISED IMPLEMENTATION DATE: [January 2002]
 COURSE TO BE REVIEWED: [January 2006]
 (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 material will vary
 - see course syllabus available from instructor

FACULTY/DEPARTMENT: COLLEGE AND CAREER PREPARATION (MATHEMATICS)

MATH 095		4
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS

INTRODUCTION TO COLLEGE MATH II

COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION: MATH 094 and MATH 095 are together equivalent to provincial Math 12. In MATH 095 the students examine logarithmic and exponential functions, trigonometric functions, and geometric and arithmetic sequences and series. Additional topics covered as time allows include the binomial theorem, matrices, and vectors.

PREREQUISITES: MATH 094 with at least a C

COREQUISITES: None

SYNONYMOUS COURSE(S)

- (a) Replaces: N/A
- (Course #)
- (b) Cannot take MATH 110 for further credit
- (Course #)

SERVICE COURSE TO:

(Department / Program)

(Department / Program)

TOTAL HOURS PER TERM: 90

STRUCTURE OF HOURS:

Lectures:	75	hrs
Seminar:		hrs
Laboratory:		hrs
Field Experience:		hrs
Student Directed Learning:		hrs
Other (Specify):	15	hrs
In Math Centre or other tutorial settings		

TRAINING DAY-BASED INSTRUCTION

LENGTH OF COURSE: _____

HOURS PER DAY: _____

MAXIMUM ENROLMENT: 36

EXPECTED FREQUENCY OF COURSE OFFERING: Fall and Winter semesters

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: _____

Department Head: C. Guidera/J. Cannon/V. Alford

Dean: (Curriculum Committee)

Greg Schlitt

J. Snodgrass

PAC Approval in Principle Date: _____

PAC Final Approval Date: November 28, 2001

MATH 095

 COURSE NAME / NUMBER

LEARNING OBJECTIVES / GOALS / OUTCOMES/ LEARNING OUTCOMES:

The successful student will be able to:

1. solve exponential and logarithmic equations
2. manipulate and graph exponential and logarithmic functions
3. make appropriate use of exponential and logarithmic concepts to solve applied problems
4. solve trigonometric equations
5. manipulate and graph circular functions and their inverses
6. make appropriate use of trigonometric concepts to solve applied problems
7. identify and analyze sequences, especially arithmetic and geometric sequences
8. analyze and evaluate the sum of a finite or an infinite series
9. use technology to analyze the mathematical topics of MATH 095

METHODS:

Lectures mixed with problem sessions.

The graphing calculator will be used in the investigations and analysis of each topic.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR YES X NO

METHODS OF OBTAINING PLAR:

Course Challenge

TEXTBOOKS, REFERENCES, MATERIALS:

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

The text is chosen by a departmental curriculum committee.

Recent text: Bittinger, Beecher, Ellenbogen, Penna, *Algebra and Trigonometry, Graphs and Models*, Addison Wesley, 2nd ed., 2001

SUPPLIES / MATERIALS:

A graphing calculator (without a computer algebraic system) will be required.

STUDENT EVALUATION:

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

Assignments and quizzes	16%
Tests	44% (3 or 4)
Semester exam	40%

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

COURSE CONTENT:

MATH 095

COURSE NAME / NUMBER

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

In MATH 095 students examine and apply:

1. logarithmic and exponential functions
2. trigonometric functions
3. geometric and arithmetic sequences and series

Additional topics covered as time allows: the binomial theorem, matrices and vectors.