

COURSE IMPLEMENTATION DATE: September 1995
 COURSE REVISED IMPLEMENTATION DATE: January 2006
 COURSE TO BE REVIEWED: November 2009
 (Four years after UPAC final approval 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:	Science, Health & Human Services / Mathematics & Statistics	
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)	SERVICE COURSE TO:
(a) Replaces: _____ (Course #)	_____
(b) Cannot take: MATH 110 for further credit. (Course #)	_____

TOTAL HOURS PER TERM:	90	TRAINING DAY-BASED INSTRUCTION
STRUCTURE OF HOURS:		LENGTH OF COURSE: _____
Lectures: 75 Hrs		HOURS PER DAY: _____
Seminar: _____ Hrs		
Laboratory: _____ Hrs		
Field Experience: _____ Hrs		
Student Directed Learning: _____ Hrs		
Other (Specify): Math 15 Hrs		
Centre or tutorial _____		

MAXIMUM ENROLLMENT:	36
EXPECTED FREQUENCY OF COURSE OFFERINGS:	Fall and Winter semesters
WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	<input checked="" type="checkbox"/> 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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

AUTHORIZATION SIGNATURES:

Course Designer(s): _____ C Guidera / J Cannon / V Alford review - J Cannon / E. Talvila	Chairperson: _____ Gillian Mimmack (<i>Curriculum Committee</i>)
Department Head: _____ Gillian Mimmack	Dean: _____ Jacalyn Snodgrass
UPAC Approval in Principle Date: _____	UPAC Final Approval Date: November 25, 2005

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 (Please check:) Yes No

METHODS OF OBTAINING PLAR:

Please check online at <http://www.ucfv.ca/math/challenge.htm> for the departmental challenge policy

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 used:

Bittinger, Beecher, Ellenbogen, Penna. 2006. Algebra and Trigonometry, Graphs and Models. 3rd edition. Addison Wesley.

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 (3 or 4)	44%
Final exam	40%

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

COURSE CONTENT:

[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.