UNIVERSITY COLLEGE of the FRASER VALLEY

COURSE IMPLEMENTATION DATE:	September 1995
COURSE REVISED IMPLEMENTATION DATE:	September 2009
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.

Note: Students may receive credit for only one of MATH 094/095, MATH 110, or MATH 140.

PREREQUISITES: **MATH 094 with at least a C**
COREQUISITES: **None**

SYNONYMOUS COURSE(S)
(a) Replaces: _____ *(Course #)*
(b) Cannot take: **MATH 110 or MATH 140** *(Course #)* for further credit.

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): Math Centre or tutorial	**15**	Hrs

TRAINING DAY-BASED INSTRUCTION
LENGTH OF COURSE: _____
HOURS PER DAY: _____

MAXIMUM ENROLLMENT: **36**
EXPECTED FREQUENCY OF COURSE OFFERINGS: **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): C Guidera / J Cannon / V Alford
review - J Cannon / E. Talvila

Chairperson: Gillian Mimmack *(Curriculum Committee)*

Department Head: Gillian Mimmack

Dean: Jacalyn Snodgrass

UPAC Approval in Principle Date:

UPAC Final Approval Date: March 27, 2009

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 alayze sequences, especially arithmetic and geometric sequences
8. analyze and evaluate the sume 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.