

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: MATH 095

Number of Credits: 4 [Course credit policy \(105\)](#)

Course Full Title: Introduction to College Math II

Course Short Title: Intro to College Math II

Faculty: Faculty of Science

Department: Mathematics and Statistics

(As of Summer 2016: Upgrading and University Preparation)

Calendar Description:

MATH 094 and MATH 095 are together equivalent to provincial Math 12. Logarithmic and exponential functions, trigonometric functions, and geometric and arithmetic sequences and series and as time permits binomial theorem, matrices, and vectors.

Prerequisites (or NONE): MATH 094 with at least a C

Corequisites (if applicable, or NONE):

Pre/corequisites (if applicable, or NONE):

Equivalent Courses (cannot be taken for additional credit)

Former course code/number:

Cross-listed with:

Equivalent course(s):

Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.

Transfer Credit

Transfer credit already exists: Yes No

Transfer credit requested (OReg to submit to BCCAT):

Yes No (Note: If yes, fill in transfer credit form)

Resubmit revised outline for articulation: Yes No

To find out how this course transfers, see bctransferguide.ca.

Total Hours: 60

Typical structure of instructional hours:

Lecture hours	60
Seminars/tutorials/workshops	
Laboratory hours	
Field experience hours	
Experiential (practicum, internship, etc.)	
Online learning activities	
Other contact hours:	
Total	60

Special Topics

Will the course be offered with different topics?

Yes No

If yes,

Different lettered courses may be taken for credit:

No Yes, repeat(s) Yes, no limit

Note: The specific topic will be recorded when offered.

Maximum enrolment (for information only): 36

Expected frequency of course offerings

(every semester, annually, etc.): Annually: Winter

Department / Program Head or Director: Greg Schlitt

Date approved: October 28, 2013

Campus-Wide Consultation (CWC)

Date of posting: January 26, 2013

Faculty Council approval

Date approved: March 7, 2014

Dean/Associate VP: Lucy Lee

Date approved: February 21, 2014

Undergraduate Education Committee (UEC) approval

Date of meeting: March 28, 2014

Learning Outcomes

Upon successful completion of this course, students 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 sums of a finite or an infinite series
9. use technology to analyze the mathematical topics of MATH 095

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

<http://www.ufv.ca/media/assets/secretariat/policies/Course-Challenge-%28106%29.pdf>

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Lectures mixed with problem sessions. Graphing calculators are used to aid in the understanding of topics.

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download supplemental Texts and Resource Materials form)

	<u>Author Surname</u> <u>Initials</u>	<u>Title (article, book, journal, etc.)</u>	<u>Current Edition</u>	<u>Publisher</u>	<u>Year Published</u>
1.	Bittinger, Beecher, et al	Algebra and Trigonometry, Graphs and Models	5 th	Addison- Wesley	2006
2.			<input type="checkbox"/>		
3.			<input type="checkbox"/>		
4.			<input type="checkbox"/>		
5.			<input type="checkbox"/>		

Required Additional Supplies and Materials (Eg. Software, hardware, tools, specialized clothing)

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

Typical Evaluation Methods and Weighting

Final exam:	40%	Assignments:	15%	Midterm exam:	15%	Practicum:	%
Quizzes/tests:	30%	Lab work:	%	Field experience:	%	Shop work:	%
Other:	%	Other:	%	Other:	%	Total:	100%

Details (if necessary):

Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No

Typical Course Content and Topics

In MATH 095 students examine and apply:

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

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

For Administrative Use Only

Department code:

CIP Code:

Course Level Code:

PDC Code: