



ORIGINAL COURSE IMPLEMENTATION DATE: September 1995  
 REVISED COURSE IMPLEMENTATION DATE: September 2018  
 COURSE TO BE REVIEWED (six years after UEC approval): January 2021  
 Course outline form version: 10/27/2017

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

<b>Course Code and Number:</b> MATH 095		<b>Number of Credits:</b> 2 <a href="#">Course credit policy (105)</a>															
<b>Course Full Title:</b> Provincial-Level Math: Principles of Math II																	
<b>Course Short Title:</b> Principles of Math II																	
<b>Faculty:</b> Faculty of Access and Continuing Education		<b>Department:</b> Upgrading and University Preparation															
<b>Calendar Description:</b> MATH 094 and MATH 095 are together equivalent to provincial Mathematics 12. Logarithmic and exponential functions, trigonometric functions, and geometric and arithmetic sequences and series and as time permits binomial theorem, matrices, and vectors.																	
<b>Prerequisites (or NONE):</b>		MATH 094 with a C or better.															
<b>Corequisites (if applicable, or NONE):</b>		NONE															
<b>Pre/corequisites (if applicable, or NONE):</b>		NONE															
<b>Antirequisite Courses</b> ( <i>Cannot be taken for additional credit.</i> ) Former course code/number: N/A Cross-listed with: N/A Dual-listed with: N/A Equivalent course(s): N/A		<b>Special Topics</b> This course is offered with different topics: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, different lettered courses may be taken for credit: <input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit															
<b>Typical Structure of Instructional Hours</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 80%;">Lecture/seminar hours</td> <td style="width: 20%; text-align: center;">60</td> </tr> <tr> <td>Tutorials/workshops</td> <td></td> </tr> <tr> <td>Supervised laboratory hours</td> <td></td> </tr> <tr> <td>Experiential (field experience, practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Supervised online activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td style="text-align: right;"><b>Total hours</b></td> <td style="text-align: center;"><b>60</b></td> </tr> </table>		Lecture/seminar hours	60	Tutorials/workshops		Supervised laboratory hours		Experiential (field experience, practicum, internship, etc.)		Supervised online activities		Other contact hours:		<b>Total hours</b>	<b>60</b>	<b>Transfer Credit</b> Transfer credit already exists: (See <a href="http://bctransferguide.ca">bctransferguide.ca</a> .) <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Submit revised outline for rearticulation: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
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<b>Total hours</b>	<b>60</b>																
		<b>Grading System</b> <input checked="" type="checkbox"/> Letter Grades <input type="checkbox"/> Credit/No Credit															
		<b>Expected Frequency of Course Offerings:</b> Annually: Winter															
<b>Department / Program Head or Director:</b> Greg St. Hilaire		<b>Date approved:</b> January 10, 2018															
<b>Faculty Council approval</b>		<b>Date approved:</b> January 31, 2018															
<b>Dean/Associate VP:</b> Sue Brigden		<b>Date approved:</b> January 31, 2018															
<b>Campus-Wide Consultation (CWC)</b>		<b>Date of posting:</b> February 16, 2018															
<b>Undergraduate Education Committee (UEC) approval</b>		<b>Date of meeting:</b> February 23, 2018															

Labs to be scheduled independent of lecture hours:  No  Yes

**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

**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**

Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1. Bittinger, Beecher, et al	Algebra and Trigonometry, Graphs and Models	5 <sup>th</sup>	Addison Wesley	2006
2.		<input type="checkbox"/>		
3.		<input type="checkbox"/>		
4.		<input type="checkbox"/>		

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

A graphing calculator (without computer algebraic system)

**Typical Evaluation Methods and Weighting**

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

**Details (if necessary):****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