

INTRODUCTION TO MATH 135

This course is divided into 10 separate units called modules. The instructions are given in the modules along with several examples and exercises. Study the instructions and work through the examples before starting the exercise. The answers for the exercises are given at the end of the module. Check your work often. The key to success in working with modules is to ask questions whenever you have difficulty understanding the instructions, the examples or the exercises. Do not hesitate to ask for help.

After each module you must write a post-test. A passing mark of 60% is required on the post-test before continuing on to the next module. Students unable to attain this mark must review the material and rewrite the test to continue.

The first test mark for each module will count 3% towards the final grade. On a prescribed date, halfway through the semester, all students will be required to write a 1 hour midterm which will cover the first 5 modules. Any unwritten test before the midterm date will be given a grade of zero as the first test mark.

Upon completion of all modules, you will write a 3 hour final exam. Attached is the recommended test date for each module as well as the compulsory date for the midterm.

Your final mark is determined by:

10 module test	30%
Midterm	20%
Final Exam	50%

You will find a calculator, with the following functions, helpful in this course:

$EXP, \sqrt{x}, \cos, \sin, \tan, y^x, \pi$

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<u>MODULE</u>	<u>TOPIC/DESCRIPTION</u>	<u>RECOMMENDED TIME/TEST DATE</u>	
1	Review - signed numbers, order of operations, fractions, polynomials, equations, inequalities & number line graphs	1 week	/ Sept. 12
2	Exponents & Radicals - rational exponents, four basic operations on exponents & radicals, solving radical equations	1½ weeks	/ Sept. 24
3	Systems of Equations - graphing, substitution and elimination	1½ weeks	/ Oct. 4
4	Permutations & Combinations	1½ weeks	/ Oct. 15
5	Probability	1 week	/ Oct. 22
	M I D T E R M E X A M	1 HOUR	/ Oct. 25
6	Relations & Functions - domain & range, functional notations, graphing, inverse functions	2 weeks	/ Nov. 4
7	Quadratic Functions - graphing, completing the square, characteristics, applications	1 week	/ Nov. 14
8	Quadratic Equations - solving by factoring and quadratic formula, nature of roots, applications	1½ weeks	/ Nov. 25
9	Geometry - parallel lines, similar and congruent triangles, triangle & circle geometry	1 week	/ Dec. 2
10	Trigonometry - special triangles, angles on a coordinate system, ratios, right triangles, Sine & Cosine laws	1½ weeks	/ Dec. 11
	F I N A L E X A M	3 HOURS	T. B. A.