INTRODUCTION TO MATH 0120

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 exercises. 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 test. **A passing mark of 50%** is required on the test before continuing on to the next module. Students unable to attain this mark must review the material and rewrite the test. The first and second test marks will be averaged. Students intending to proceed to Math 0130 should aim for a minimum of 70% on each module test.

All students will be required to write a 50 minute midterm which will cover the first five modules. Upon completion of all modules, the student will write a three hour final exam. **Consult your instructor immediately if you find yourself falling behind schedule.**

Your final mark is determined by:

10 module tests	40%
Midterm	15%
Final Exam	45%

You will need a scientific calculator with the following functions:

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

On the back of this sheet is the recommended test date for each module as well as the midterm.

MATH 0120 - WINTER 1997

MODULE	TOPIC/DESCRIPTION	RECOMMENDED TIME/TEST DATE
1	Review - signed numbers; order of operation; fractions; operations on polynomials;equations and inequalities; number line graphs	1 week Jan 14
2	Exponents and Radicals - rational exponents; four basic operations on exponents and radicals; solving radical equations	1½ weeks Jan 23
3	Rational Expressions -nonpermissible values; simplifying; four basic operations; equations	2 weeks Feb 6
4	Systems of Equations and Inequalities - solving systems of equations by graphing, substitution, and elimination; applications	1 week Feb 13
5	Probability - theoretical probability; dependent and independent events; mutually exclusive events; multiplication and addition laws	1 week Feb 18
	MIDTERM EXAM	**Feb 20**
6	Relations and Functions - domain and range; functional notation; graphing; inverse functions; transformations	1½ weeks March 12
7	Quadratic Functions - graphing; completing the square; characteristics; applications	1 week March 19
8	Quadratic Equations - solving by factoring and quadratic formula; nature of roots; applications	1 week March 26
9	Geometry - parallel lines; triangle and circle geometry	1 week April 2
10	Trigonometry - trigonometric ratios; solving right triangles; special triangles; angles on a coordinate system; Sine and Cosine Laws	1½ weeks April 10
	FINAL EXAM - 3 HOURS	T.B.A.