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.

The recommended test date for each module and the midterm is on the back. **Consult your instructor immediately if you find yourself falling behind schedule.** It may be necessary to reassess your math skills to ensure that you are placed in a course where you can be successful.

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:

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

BONUS

When you write your midterm and/or final exam on or before the given date, you will receive an additional 5% on each of these scores.

MATH 0120 - FALL 1998

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 Sept. 9
2	Exponents and Radicals - rational exponents; four basic operations on exponents and radicals; solving radical equations	2 weeks Sept. 23
3	Rational Expressions -nonpermissible values; simplifying; four basic operations; equations	2 weeks Oct. 7
4	Systems of Equations and Inequalities - solving systems of equations by graphing, substitution, and elimination; applications	1 week Oct. 14
5	Probability - theoretical probability; dependent and independent events; mutually exclusive events; multiplication and addition laws	1 week Oct. 19
	MIDTERM EXAM	**Oct. 22**
6	Relations and Functions - domain and range; functional notation; graphing; inverse functions; transformations	2 weeks Nov. 5
7	Quadratic Functions - graphing; completing the square; characteristics; applications	1 week Nov. 12
8	Quadratic Equations - solving by factoring and quadratic formula; nature of roots; applications	1 week Nov. 18
9	Geometry - parallel lines; triangle and circle geometry	1 week Nov. 25
10	Trigonometry - trigonometric ratios; solving right triangles; special triangles; angles on a coordinate system; Sine and Cosine Laws	1½ weeks Dec. 4
	FINAL EXAM - 3 HOURS	**T.B.A.**