

MATHEMATICS 105 COURSE OUTLINE

The Math 105 course is designed so that you can work on your own as much as possible. The course is divided into 10 separate units called modules. The instructions are given in the modules along with examples and 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, the exercises, or the answers. Do not hesitate to ask for help whenever you have having difficulty.

After you have finished each module you are required to write a post-test. A passing grade of 60% is required on the post-test before you may continue on to the next module. Students unable to attain 60% when writing the post-test must review the material and rewrite the test. The first test mark will count 3% towards the final computation of grades. On a prescribed date halfway through the semester, students will be required to write a one hour midterm which will cover the first 5 modules. Upon the completion of all modules you will write a three hour final exam. Attached is the recommended test date for each module as well as the compulsory date for the midterm. You should strive to remain within the allotted time for each module. Any unwritten tests before the midterm (and final exam) will be given a grade of 0 as the first test mark on that module.

When you have completed a module and feel that you are ready for the post-test, ask your instructor. You are permitted and encouraged to write post-tests before the recommended test dates if you are confident of the material. You may find a calculator with a $\frac{1}{x}$ function and a memory useful in this course.

Your final mark is determined by

10 module tests	30%
Midterm	20%
Final exam	50%

MATH 105 OUTLINE

<u>MODULE</u>	<u>TOPIC/DESCRIPTION</u>	<u>RECOMMENDED TIME/TEST DATE</u>
1	<u>Whole Numbers</u> adding, subtracting, multiplying & dividing; rounding, & estimation.	Sept. 15
2	<u>Fractions & Decimals</u> converting & reducing; 4 basic operations with fractions & decimals; word problems	Sept. 26
3	<u>Introduction to Algebra</u> basic algebraic concepts; order of operations; evaluating expressions; solving equations; ratio and proportion; formulas, word problems	Oct. 7
4	<u>Percent and its Applications</u> manipulating decimals, fractions & percent; Base, percentage and rate; depreciation	Oct. 17
5	<u>Measurement</u> metric units of length, weight, volume, time and temperature	Oct. 24
	MIDTERM EXAM 1 HOUR	Oct. 27
6	<u>Computing Business Discounts</u> trade discount, discount series, cash discount; list price	Nov. 4
7	<u>Selling at Retail</u> calculating markon/loss, retail price, profit; percent of markon/loss	Nov. 15
8	<u>Payroll and Banking</u> paychecks, hourly wage; salary; commission; piecework; overtime, deductions; banking records	Nov. 22
9	<u>Interest</u> calculating simple interest, rate & time; finding principal and a future amount; present value; compound interest	Dec. 1
10	<u>Introduction to Statistics</u> collecting and organizing data; line, bar and circle graphs, frequency distributions, measures of central tendency	Dec. 9
	FINAL EXAM 3 HOURS	TBA