

# MATH 50 OUTLINE

## PRE-ALGEBRA

TEXT: Pre-Algebra, 3rd Edition, Carson

Approved: MAY 16, 2008

Effective: FALL 2008

MATERIAL TO BE COVERED	SECTIONS FROM TEXT	TIME LINE
tables, charts and graphs. Mean and median. Exponents, roots, order of operations. Perimeter and area of polygons. Volume of rectangular solid. Solving equations, evaluating formulas, applications.	1.4 - 1.6	3 Hours
Operations with integers.	2.1 - 2.6	5 Hours
Simplifying algebraic expressions. Adding, subtracting, multiplying polynomials. Laws of exponents. Prime factorization, Greatest Common Factor. Introduction to factoring.	3.1 - 3.7	6.5 Hours
Solving equations. Translating word sentences to equations.	4.1 - 4.5	4 Hours
Operations with rational expressions: simplifying, evaluating, solving equations. Least Common Multiple. Irrational numbers. Circumference and area of a circle.	5.1 - 5.8	7 Hours
Operations with decimals: simplifying, evaluating, solving. Converting between decimals and fractions. Pythagorean Theorem. Scientific notation.	6.1 - 6.6	5 Hours
Ratios, proportions. Optional: conversion of American units & metric units. Optional: uniform motion applications.	7.1 - 7.2 Optional: 7.3 - 7.6	2.5 Hours
Percents. Conversion between percent, fraction, decimal. Percent equations. Percent applications.	8.1 - 8.6	5 Hours
Rectangular coordinate system. Graphing linear equations. Optional: Points, lines and angles; applications with graphing.	9.2 - 9.3 Optional: 9.1 & 9.4	1.5 Hours

\*\*\* One Hour = 1 hour of face time. \*\*\*\*This outline allows for 3 hours of exams.

16 Week Term : 1 week = 2.8333 hours (face time) 6 Week Term: 1 week = 7.5 hours (face time)

### NOTES:

1. Tables, charts, graphs, mean and median are now introduced in Chapter 1 and should be covered at that time. Use of these concepts then appears throughout the rest of the text.
2. It is expected that the students have an introduction to calculators at some point after Chapter 5. However, students should be able to demonstrate the ability to perform fundamental calculations without the aid of a calculator on all exams and materials in Chapters 1-5.
3. It is important that you follow, in a reasonable manner, the Section/Topic outline so that adequate coverage is given to all topics listed. Note this course is a prerequisite for Math 51 and 51A (Elementary Algebra), and consequently it is important that the students develop sufficient skills and background to increase their chances of success in Algebra.

**\*\* See reverse side for important Department Policy\*\***

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