

MATH 59 OUTLINE

FUNDAMENTAL APPLIED MATHEMATICS

TEXT: Fundamentals of Algebraic Modeling, 4th Edition, Timmons/Johnson/McCook

Approved: April 15, 2005

Effective: Fall 2005

MATERIAL TO BE COVERED	SECTIONS FROM TEXT	TIME LINE
Absolute value, order of operations, solving linear equations, evaluating formulas, literal equations.	1.2 - 1.4	5 Hours
Ratio and proportion, unit conversion, applications of linear equations, applications of proportions and percents.	1.5 - 1.7 Lab exercises 3 & 4. Supplement on unit conversion.	5 Hours
Rectangular coordinate system, graphs of linear equations in two variables, slope, equations for lines, linear inequalities.	2.1 - 2.5 Lab exercises 2 & 4.	5 Hours
Functions and function notation, applications of linear functions, variation, intro to non-linear functions.	3.1 - 3.5 Lab exercises 1 & 2.	5 Hours
Applications of formulas and functions to: Perimeter, area Pythagorean theorem, finance, consumer credit, business, science and technology.	4.1 - 4.7 Lab exercises 2 & 4.	5 Hours
Graphical and algebraic solutions for systems of linear equations in two variables, applications of linear systems. Optional: non-linear systems.	5.1/5.2/5.4 Lab exercises 1 - 3. Optional: 5.5	5 Hours
Statistics: sampling, mean, median, mode, statistical charts and graphs, variation, standard deviation, normal distribution, scatter diagrams and linear regression.	7.1 - 7.6	7.5 Hours
Properties of exponents, negative exponents, scientific notation, significant digits.	Supplement	2 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)

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

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