

MATH 100 OUTLINE

SURVEY OF COLLEGE MATH

TEXT: Mathematical Excursions, 2nd Edition, Aufmann/Lockwood/Nation/Clegg

Approved: APRIL 2006

Effective: FALL 2006

MATERIAL TO BE COVERED	SECTIONS FROM TEXT	TIME LINE
Problem solving, inductive and deductive reasoning, problem solving with patterns, problem solving strategies.	1.1 - 1.3	5 Hours
Sets: basic properties of sets, subsets, set operations, applications of sets, infinite sets.	2.1 - 2.6	5 Hours
Logic: logic statements and quantifiers, truth tables and applications, the conditional and the biconditional, the conditional and related statements, arguments, Euler diagrams.	3.1 - 3.6	7 Hours
Modeling: applications of first degree equations, finding linear models, quadratic functions, exponential functions and their applications, logarithmic functions and their applications.	5.1 and 6.3 - 6.6	5 Hours
Combinatorics and probability: the counting principle, permutations and combinations, probability and odds, addition and complement rules, conditional probabilities, expectation.	11.1 - 11.6	7 Hours
Statistics: measures of central tendency, measures of dispersion, measures of relative position, normal distribution (Optional: linear regression and correlation)	12.1 - 12.5	5 Hours
Optional Topics: Early numeration systems, arithmetic in different bases, modular arithmetic, non-euclidean geometry & fractals graph theory, apportionment and voting.	4.1 - 4.4 7.1 - 7.3 8.6 - 8.7 9.1 - 9.4 13.1 - 13.3	4.5 Hours

*** One hour = 1 hour of face time. ****This outline allows for 4 hours of exams.

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

* At least two optional topics must be covered.

A research paper/project is required for this course.

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

Submitted by: Sholars, Munro, Kim, Edwards