

SYLLABUS

MATH100-03 SURVEY OF MATHEMATICS

Fall 1999

MWF 9:00 — 9:50am HH227

INSTRUCTOR: DR. CHOCK WONG

Office: HH18. Telephone: 739-4682

Office Hours: MWF 10:00 — 11:00, TH 2:00 — 3:00.

Text Book: Smith, Karl J., THE NATURE OF MATHEMATICS, (8th edition). *Brooks/Cole Publishing Company*.

Course Description: Introductory course for humanities majors. Selected topics to acquaint the student with the field of mathematics. Recommended for early childhood education majors. Fulfills Track A general education requirement in mathematics. The course is a terminal course and does not prepare the student for MA102, 103, 110, and 210.

Objectives: To acquaint the student with a wide variety of topics in mathematics with emphasis on mathematical reasoning; to encourage a logical approach to the solution of problems mathematics; to create a positive attitude toward mathematics.

Topics to Cover:

UNIT I. The nature of logical thinking and problem solving. Chapter 1 and 2.

UNIT II. The nature of calculation, numbers, and geometry. This unit will cover selected sections from Chapter 3, 4, 5, and 7, which include: §§3.3 to 3.5, 4.2, 5.3, 7.4 to 7.6.

UNIT III. The nature of financial management, probability, and statistics. Chapter 6 (§§6.1 and 6.2), Chapter 9 (§§9.1 to 9.5). and Chapter 10 (§§10.1 to 10.3).

Homework and Quizzes:

A number of problems from each covered section will be assigned to work out **on your own**. Although most of the assignments are not collected for grading, you may be called to present your solutions to the whole class. Please remember that the only way you can really learn mathematics is to practise, to do more problems. The assigned problems will also be tested in the weekly quizzes. There will be at least one quiz each week, and NO make up quizzes will be given.

Term Project:

A term project is required for this course. This project might be a term paper (as most people will choose to do), or a work of art or a demonstration related to a topic in this course. Possible topics of the term paper can be found from "Individual Research" problems in each section of the text. An **OUTLINE** of

your term project is due on **Friday, 10/29/99**, and the term project must be done by **Wednesday, 12/8/99**.

Exams: There will be three UNIT EXAMS (in Week 6, 10, and 16). Dates for the exams will be announced.

Grading:

HOMework & QUIZZES:	30% of the total
EXAMS:	57% of the total
PROJECT:	13% of the total