

National Tsing Hua University
Department of Computer Science

Course Title: *CS2336 - Computer Mathematics (I)*

Credit: 3 (Fall, 1996)

Classes: 10:10-12 Wednesday, 11:10-12 Friday at EECS 127

Instructor: Dr. Chaur-Chin Chen, <http://www.cs.nthu.edu.tw/~cchen>

Prerequisites: Introduction to Computer Science, Calculus

Contents:

1. The Foundation: Logic, Sets, and Functions
2. Boolean Algebra
3. Algorithms and Their Applications
4. Mathematical Reasoning
5. Counting Techniques and Recurrence Relations
6. Abstract Mathematical Structure
7. Introduction to Graph Theory

Textbook:

K. H. Rosen, *Discrete Mathematics and Its Applications*, McGraw-Hill International Editions, 3rd ed., 1994.

References:

J. L. Gersting, *Mathematical Structure for Computer Science*, Computer Science Press, 3rd ed., 1993.

Grading: 8 homework assignments, 3 Exams.