

Computer Science 141/240—Fall 1995

		Room	Phone	E-mail
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Course goals:

to provide an introduction to the mathematical background for computer science and computer programming. This course covers material likely to be seen in first and second year Computer Science. More importantly, it stresses how to use mathematical reasoning.

Time/Location:

Lectures: MWF 13:30–14:20 Library 5-162
Office Hours: *to be determined.*

Textbook:

Grimaldi, *Discrete and Combinatorial Mathematics: An Applied Introduction (3rd edition)*, Addison Wesley, 1994.

References:

Ross & Wright, *Discrete Mathematics (3rd edition)*, Prentice Hall, 1992.
Biggs, *Discrete Mathematics*, Harcourt Brace, 1986.

Material:

from Chapters 2–8, 11, 12, & 15 of *Grimaldi* primarily. Topics will include

1. Logic and Set Theory
2. Mathematical Induction, Counting, and properties of the integers (loop invariants)
3. Functions and Relations (finite automata, strings, and languages)
4. Graph Theory & Trees
5. Boolean Algebras

Course Assessment:

The grade that you receive for CPSC 150 is based on homework assignments, two midterm examinations, and a final examination. The relative weights for the various components is shown in the table below. There are no laboratory or computer programming assignments directly associated with this course.

Component	%	Dates
Assignments	20	Weekly
Midterm	20	Friday, 13 October
Midterm	20	Wednesday, 8 November
Final Exam	40	During Final Exam week, which begins Monday, 11 December

Notes:

Midterm dates are still tentative

I reserve the right to modify the weightings of the various components of the course.