

Syllabus: MA 267 Discrete Mathematical Structures

Last updated Spring 2011

Bulletin description:

An introduction to discrete mathematics for students majoring in computer-related areas. Students will be introduced to concepts and methods that are essential to theoretical computer science. A strong emphasis is placed on developing skills in mathematical reasoning and understanding and writing proofs. Topics include sets, functions, induction, recursion, combinatorics and graphs. Prerequisites: MA 125 or MA 120, or consent of instructor

Text:

Essentials of Discrete Mathematics by David J. Hunter. Published by Jones and Bartlett, ISBN-10: 0-7637-4892-7

Coverage:

Chapters 1-4 and selected sections from Chapter 5 as time permits.

Learning Objectives: Learning the mathematical concepts and methods that are essential to theoretical computer science. Objects of study include sets, strings, functions and graphs. Methods include induction and recursion with an introduction to closed form solutions.

Remarks:

Handouts and notes may be used to supplement the text.