

Application Of Discrete Mathematics

Goals of the Discrete Mathematics Course

Introduce students to a range of mathematical tools from discrete mathematics that are key in computer science

Mathematical Sophistication

How to write statements rigorously

Practice works!

How to read and write theorems, lemmas, etc.

How to write rigorous proofs

Areas we will cover: **Actually, only practice works!**

Logic and proofs

Set Theory

Induction and Recursion

Counting and combinatorics

Probability theory

Number Theory (if time permits)

Note: Learning to do proofs from watching the slides is like trying to learn to play tennis from watching it on TV! So, do the exercises!

Aside: We're not after the shortest or most elegant proofs; verbose but rigorous is just fine! ☺

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Graph Discrete Mathematics Wikipedia

In mathematics, and more specifically in graph theory, a graph is a structure amounting to a set of objects in which some pairs of the objects are in some sense related. The objects correspond to mathematical abstractions called vertices (also called nodes or points) and each of the related pairs of vertices is called an edge (also called an arc or line).

Home Department Of Mathematics Iowa State University

Dr. Rana Parshad develops mathematical models to help solve invasive-species problem

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Math ThoughtCo

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PortalContentsMathematics And Logic Wikipedia

Mathematics is the study of topics such as quantity (numbers), structure, space, and change.It evolved through the use of abstraction and logical reasoning, from counting, calculation, measurement, and the systematic study of the shapes and motions of physical objects. Mathematicians explore such concepts, aiming to formulate new conjectures and establish their truth by rigorous deduction from ...

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