

## Discrete Mathematics For Computer Science

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 Specialization \Introduction to Discrete Mathematics for Computer Science  
 Math is the hidden secret to understanding the world | Roger Antonson  
 Math In Programming: Necessary Or Not? The One Thing People Never Talk About In Mathematics  
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 Discrete Mathematics is the language of Computer Science. One needs to be fluent in it to work in many fields including data science, machine learning, and software engineering (it is not a coincidence that math puzzles are often used for interviews). We introduce you to this language through a fun try-this-before-we-explain-everything approach: first you solve many interactive puzzles that are carefully designed specifically for this online specialization, and then we explain how to solve ...

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 1.12.4 Using Discrete Mathematics in Computer Science 87 CHAPTER 2 Formal Logic 89 2.1 Introduction to Propositional Logic 89 2.1.1 Formulas 92 2.1.2 Expression Trees for Formulas 94 2.1.3 Abbreviated Notation for Formulas 97 2.1.4 Using Gates to Represent Formulas 98 2.2 Exercises 99 2.3 Truth and Logical Truth 102

Discrete Mathematics for Computer Scientists provides computer science students the foundation they need in discrete mathematics. It gives thorough coverage to topics that have great importance to computer scientists and provides a motivating computer science example for each math topic, helping answer the age-old question, "Why do we have to learn this?"

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 Discrete mathematics of particular utility to computer science. Proofs by induction. Propositional and first-order logic. Sets, functions, and relations. Big-O and related notations. Recursion and solutions of recurrence relations. Combinatorics. Probability on finite probability spaces. Graph theory. GE Prior to Fall 2011: SciEng. GE: SE, QL.

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Discrete mathematics - Wikipedia  
 Discrete mathematics uses a range of techniques, some of which is self-dom found in its continuous counterpart. This course will roughly cover the following topics and specific applications in computer science. 1.Sets, functions and relations 2.Proof techniques and induction 3.Number theory a)The math behind the RSA Crypto system

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 Discrete Mathematics is a branch of mathematics involving discrete elements that uses algebra and arithmetic. It is increasingly being applied in the practical fields of mathematics and computer science. It is a very good tool for improving reasoning and problem-solving capabilities.

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 CONTENTS iii 2.1.2 Consistency. . . . .10 2.1.3 Whatcangowrong. . . . .10 2.1.4 Thelanguageoflogic ...

Notes on Discrete Mathematics - Computer Science  
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