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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

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approach: first you solve many interactive puzzles that are carefully designed specifically for this online specialization, and then we explain how to solve ...

## **Introduction to Discrete Mathematics for Computer Science ...**

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Discrete Mathematics For Computer Scientists provides computer science students the foundation they need in discrete mathematics.

## **Discrete Mathematics for Computer Scientists: Stein, Cliff ...**

- Discrete mathematics and computer science. – Concepts from discrete mathematics are useful



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for describing objects and problems in computer algorithms and programming languages. These have applications in cryptography, automated theorem proving, and software development. 6 CS 441 Discrete mathematics for CSM. Hauskrecht

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Discrete Mathematics

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provides an essential foundation for virtually every area of computer science, and its applications are correspondingly vast. At the most fundamental level, all of a computer's data is represented as bits (zeros and ones).

## **Math for Computer Science: Discrete Math | Masters Program ...**

Introduction to Discrete

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Introduction to Discrete

Mathematics for

Computer Science

Specialization.

Mathematical Thinking

in Computer Science;

Combinatorics and

Probability;

Introduction to Graph

Theory; Number

Theory and

Cryptography; Delivery

Problem; Instructors:

Alexander S. Kulikov,

Michael Levin and ...

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**Introduction to  
Discrete  
Mathematics for  
Computer Science**

from discrete mathematics that are widely used in Computer Science. The course aims to present these ideas "in action"; each one will be geared towards a specific significant application. Thus, students will see the purpose of the

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techniques at the same time as learning about them.

## **CS 70: Discrete Mathematics for Computer Science**

Topics in discrete mathematics

Theoretical computer science. Complexity studies the time taken by algorithms, such as this sorting routine.

Theoretical...

Information theory. The ASCII codes for the

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word "Wikipedia",  
given here in binary,  
provide a way of  
representing the...

Logic. Logic is the ...

**Discrete  
mathematics -  
Wikipedia**

Course Description.

This course covers  
elementary discrete  
mathematics for  
computer science and  
engineering. It  
emphasizes  
mathematical

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definitions and proofs  
as well as applicable  
methods. Topics  
include formal logic  
notation, proof  
methods; induction,  
well-ordering; sets,  
relations; elementary  
graph theory; integer  
congruences;  
asymptotic notation  
and growth of  
functions;  
permutations and  
combinations, counting  
principles; discrete  
probability.

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**Mathematics for  
Computer Science |  
Electrical  
Engineering ...**

Discrete mathematics uses a range of techniques, some of which is sel-dom found in its continuous counterpart. This course will roughly cover the following topics and speci c applications in computer science.

1. Sets, functions and



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relations 2.Proof techniques and induction 3.Number theory a)The math behind the RSA Crypto system

**A Course in Discrete Structures - Department of Computer ...**

The curriculum of most undergraduate programs in computer science includes a course titled Discrete Mathematics. These

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days, given that many students who graduate with a degree in computer science end up with jobs where mathematical skills

## **Discrete Mathematics, Second Edition In Progress**

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Mathematics For  
2.1.4  
The language of logic  
Computer Science  
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**Notes on Discrete  
Mathematics -  
Computer Science**

"This excellent book is an outstanding combination of clarity, rigor, and elegance. Lewis and Zax have produced a remarkably comprehensive guide to the world of discrete mathematics—a guide that will be invaluable for any student of

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—John MacCormick,  
Dickinson College

**Essential Discrete  
Mathematics for  
Computer Science,  
Lewis ...**

Discrete mathematics forms the mathematical foundation of computer and information science. It is also a fascinating subject in itself. Learners will become familiar with a

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broad range of mathematical objects like sets, functions, relations, graphs, that are omnipresent in computer science.

**Discrete**

**Mathematics |**

**Coursera**

Discrete Probability

Theory A version of this

course from a previous

term was also taught

as part of the

Singapore-MIT Alliance

(SMA) programme as

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course number SMA  
5512 (Mathematics for  
Computer Science).

**Mathematics for  
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Electrical  
Engineering ...**

Discrete Algorithms;  
Distributed Computing  
and Networking; Graph  
Theory; The journal is  
devoted to a quest of  
quality and immediacy.  
The median value for  
acceptance of papers  
(including refereeing

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and all eventual  
revisions) has been  
about 12 month for  
papers submitted in  
2011.

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Computer Science**

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Discrete Mathematics  
is a branch of  
mathematics involving  
discrete elements that  
uses algebra and



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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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