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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,

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helping answer the age-old question, "Why do we have to learn this?"

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

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

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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 ...

Introduction to

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These are notes on discrete mathematics for computer scientists. The presentation is somewhat unconventional. Indeed I begin with a discussion of the basic rules of mathematical reasoning and of...

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Some Notes

Concepts and notations from discrete mathematics are useful in studying and describing objects and problems in branches of computer science, such as computer algorithms, programming languages, cryptography, automated theorem proving, and software development.

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**Discrete
mathematics -
Wikipedia**

Discrete math is the mathematics of computing. The mathematics of modern computer science is built almost entirely on discrete math, in particular combinatorics and graph theory. This means that in order to learn the fundamental algorithms used by computer

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programmers, students will need a solid background in these subjects. Indeed, at most universities, a undergraduate-level course in discrete mathematics is a required part of pursuing a computer science degree.

Discrete math is very much ...

Why Discrete Math Is Important | AoPS News

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

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Mathematics |

Coursera

Discrete mathematics deals with objects that come in discrete bundles, e.g., 1 or 2 babies. In contrast, continuous mathematics deals with objects that vary continuously, e.g., 3.42 inches from a wall.

Think of digital watches versus analog watches (ones where the second hand loops around continuously

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Mathematics For
(without stopping).

Computer Science

**A Course in Discrete
Structures -**

**Department of
Computer ...**

Course Description.

This course covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics

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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.

**Mathematics for
Computer Science |**

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Electrical Engineering ... Computer Science

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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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Mathematics

Tutorial -

Tutorialspoint

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Thelanguageoflogic ...

Notes on Discrete

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is the ideal introductory textbook for standard undergraduate courses, and is also suitable for high school courses, distance education for adult learners, and self-study. The essential introduction to discrete mathematics; Features thirty-one short chapters, each suitable for a single class ...

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

Discrete mathematics is the study of mathematics that underpins computer science, with a focus on discrete structures, for example, graphs, trees and networks, K H Rosen (2012). It is a contemporary field of mathematics widely used in business and industry.

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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

- Discrete mathematics and computer science. – Concepts from discrete mathematics are useful for describing objects and problems in computer algorithms and programming languages. These have

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applications in
cryptography,
automated theorem
proving, and software
development. 6 CS 441
Discrete mathematics
for CSM. Hauskrecht

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Discrete Mathematics

is the Foundation of

Computer Science Ever

heard of Logic

Notation, Set Theory,

Combinatorics, Graph

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Theory, Probability,
Number Theory,
Algebra, etc.?

**What is the
Importance of
Mathematics in
Computer Science ...**

Actually Discrete
Mathematics is the
backbone of Computer
Science or I say the
Theoretical Computer
Science. Without The
study of Discrete
mathematics, We miss
the crux of Computer

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Mathematics For

Science-Logic

Development. It brings

rational clarity to your

solutions and a formal

way of analysing a

problem.

How important is

Discrete

Mathematics for a

Computer ...

Discrete maths is the

background of

computer science It is

not a secret that

discrete mathematics

forms a strong

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foundation for the
study of programming
and computer science.

It will equip you with
deep knowledge about
algorithms,
computability, and
complexity which you
will use in
programming.

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