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Theoretical computer science (TCS) is a subset of general computer science and mathematics that focuses on mathematical aspects of computer science such as lambda calculus or type theory. It is difficult if not near-impossible to circumscribe the theoretical areas precisely. The ACM's Special Interest Group on Algorithms and Computation Theory (SIGACT) provides the following description:

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*Theoretical computer science - Wikipedia*

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 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 | Electrical Engineering ...*

This text explains how to use mathematical models and methods to analyze problems that arise in computer science. The notion of a proof plays a central role in this work. Simply put, a proof is a

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method of establishing truth. Like beauty, “truth” some-times depends on the eye of the beholder, and it should not be surprising that what

*Mathematics for Computer Science - MIT OpenCourseWare*

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*String (computer science) - Wikipedia*

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

Key Math Terms and definitions covered in this textbook. Basis for  $V$ . Independent vectors  $v_1, \dots, v_d$  whose linear combinations give each vector in  $V$  as  $v = c_1 v_1 + \dots + c_d v_d$ .  $V$  has many bases, each basis gives unique  $c$ 's. A vector space has many bases! Cayley-Hamilton Theorem.  $p_A(A) = \det(A - \lambda I)$  has  $p_A(A) = \text{zero matrix}$ . Cramer's Rule for  $Ax = b$ .

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