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## Mathematical Structures For Computer Science

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## Mathematical Structures With ...

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:

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



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

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In computer programming, a string is traditionally a sequence of characters, either as a literal constant or as some kind of variable. The latter may allow its elements to be mutated and the length changed, or it may be fixed (after creation). A string is generally considered as a data type and is often implemented as an array data structure of bytes (or words) that stores a sequence of ...

String (computer science) - Wikipedia  
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