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Mathematical Structures for Computer Science • Importance of logical thinking. • Power of mathematical notation. • Usefulness of abstractions.

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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

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a wall. Think of digital watches versus analog watches (ones where the second hand loops around continuously without stopping).

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Prerequisites: Coursework in Discrete Math OR CS 5070 - Mathematics Structures for Computer Science; as determined by program admission. Some basic C or Java programming experiences are strongly required. Credits: 3. CS 7990 - Special Topics in Computer Science.

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## **Discrete Mathematics for Computer Science**

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## **A Course in Discrete Structures**

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