NEW YORK TECH

225 NY Tech
Manhattan, New York, 10018

The study of mathematics develops one's ability to express one's thoughts precisely and clearly, to reason logically, and to analyze and solve problems algorithmically. The analysis and design of efficient algorithm
-that is, sets of rules used for computation- is fundamental to problem solving in Both mathematics and computer science.

The Bachelor of Science degree in mathematics prepares students for graduate school, As well as professional careers in education and industry. Mathematics majors may choose to specialize in either pure mathematics or computational mathematics by appropriate selection of electives in consultation with their advisors.

General Education Requirements (20 credits required)
     Consult your advisor for help

Liberal Education Requirements (20 credits required)
     Appointment with advisor is strongly encouraged

Major Requirements (80 credits required)
Calculus 1 (4cr)
Calculus 2 (4cr)
Discrete Mathematics (4cr)
Linear Algebra (4cr)
Probability and Statistics (4cr)
Calculus 3 (4cr)

Advanced Mathematics (4cr)
Differential Equations (4cr)
Abstract Algebra 1 (4cr)
Advanced Calculus 1 (4cr)
Computer Programming 1 (4cr)
Number Theory (4cr)
Probability (4cr)
Geometry (4cr)
Computer Programming 2 (4cr)
Mathematical Statistics (4cr)
Topology (4cr)
Complex Analysis (4cr)
Data Structures and Algorithms(4cr)

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