

MATHEMATICS@WAGNER

Mathematics majors learn to think with precision, logical rigor and to make both finite and abstract conclusions. Emphasis is placed on a broad range of applications. A minor in computer science or management information systems is also an option. Graduates are prepared for graduate study, or may choose careers in mathematics-related fields such as engineering, statistics, computing, actuarial science, physics, and education.

Wagner College is a competitive, four-year private college founded in 1883. The broad liberal arts curriculum is enhanced by a rich array of internship and other professional and cultural opportunities readily available in New York City.



For more information, contact the Admissions Office at (800) 221-1010 or visit our website at www.wagner.edu

Although this major is very content-specific and involves hours of class time developing an understanding of topics, it also opens students to a wide variety of field experience and professional careers. Unlike mathematics programs at other colleges, the Wagner Plan is incorporated to adapt to the modern world and draw connections across several different fields. The Mathematics Major really prepares students to pursue any career involving mathematics. A minor in mathematics can prove extremely useful to students pursuing careers in finance, accounting, or other math-intensive professions.

SAMPLE CLASSES

Global Operations Research

Mathematical methods, constraints, the simplex method, game theory, and dynamic programming are all explored in this class. This course draws several connections between mathematics and computer science and explores the relationship between the two fields.

Theory of Computation

Mathematical foundations of computer science are explored in depth throughout this course.

Automata, Finite, Pushdown,

Linearbound Turing Machines, and other advanced topics are explored during this course.

Probability

The theories of probability are explored thoroughly throughout this course. Topics like statistics and game theory are introduced in an intensive evaluation of situations involving probability and the mathematical edge that can be garnered through its use.

Advanced Calculus

This stimulating course involves a discussion of the real number system, topology of the real line, continuous functions, and uniform convergence. This is offered as a capstone course and available to majors wishing to thoroughly explore theories of integration and multivariate calculus.

FIRST YEAR LEARNING COMMUNITY EXAMPLE

CARBON DATING: Our

Relationship with the Environment

This LC will explore the application of chemistry and mathematics in our environment through a study of pollution in the air, water and soil.

Students will investigate local

environmental issues of current interest, and participate in community efforts.

INTERNSHIP EXAMPLES

Credit Suisse
Deutsche Bank
Education Field Work
Sharp Electronics Corporation
Baseline Securities

RESEARCH TOPICS

- “*Math Across the Curriculum*”
- “*The Probability of Poker*”
- “*Minimax Theorem*”
- “*Gender Differences in Math Education*”
- “*The Casino’s Abuse of Probability*”
- “*Addressing Dyscalculia and Other Mathematically Challenged Students in the Diverse Classroom Setting*”

CONTACTS

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