



2021-2022

DEPARTMENT OF MATHEMATICS

- ▶ Abu Dhabi
- ▶ London
- ▶ Paris
- ▶ Shanghai

Take courses abroad in both pure and applied mathematics offered by NYU's Department of Mathematics. You will learn practical and creative applications to industry, science, and technology and conduct original research. You can pair your Mathematics major with computer science, economics, engineering, and secondary education through joint-degree programs. You will engage with different cultures and develop the logical and analytical tools necessary to apply quantitative skills to current world issues.



**NYU
GLOBAL
PROGRAMS**



NYU ABU DHABI

At NYU Abu Dhabi, you can choose from a broad range of mathematics courses and join a diverse campus community of students from over 115 countries. Small classes offer maximum opportunities for engagement with stellar faculty that can be leveraged further through involvement in groundbreaking research.

Courses offered at NYU Abu Dhabi may not automatically count as major or minor equivalents. Students are encouraged to meet with their academic adviser to discuss their major requirements and degree progress.

SELECT MATHEMATICS COURSES

- ▶ Abstract Algebra I and II
- ▶ Advanced Game Theory
- ▶ Analysis I and II
- ▶ Calculus
- ▶ Complex Analysis
- ▶ Discrete Mathematics
- ▶ Dynamical Systems
- ▶ Fundamentals of Complex Variables
- ▶ Integral Calculus
- ▶ Linear Algebra
- ▶ Mathematical Modeling
- ▶ Multivariable Calculus
- ▶ Numerical Methods
- ▶ Ordinary Differential Equations
- ▶ Partial Differential Equations
- ▶ Probability and Statistics
- ▶ Special Topics in Mathematics
- ▶ Topology
- ▶ Trigonometry and Differential Calculus

NYU LONDON

Spend a semester at NYU London, where coursework in math, science, and business helps you stay on track with your major requirements while you gain an international perspective in the diverse capital of England.

MATHEMATICS COURSES

- ▶ Algebra and Calculus
- ▶ Calculus I
- ▶ Linear Algebra
- ▶ Linear Algebra and Differential Equations (Tandon)
- ▶ Mathematics for Economics I and II
- ▶ Multivariable Calculus with Applications to Science and Engineering (NYU Abu Dhabi)
- ▶ Probability and Statistics

NYU PARIS

Study math in Paris, one of Europe's leading centers for mathematical research and teaching, where you can witness the development of a thriving tech industry.

MATHEMATICS COURSES

- ▶ Analysis I
- ▶ Functions of a Complex Variable
- ▶ Linear Algebra
- ▶ Partial Differential Equations
- ▶ Probability and Statistics
- ▶ Special Topics II: Linear and Nonlinear Optimization

NYU SHANGHAI

Study in China's capital of finance and commerce and choose from NYU Shanghai's complete mathematics curriculum, including courses that provide essential knowledge in analysis, algebra, differential equations, and probability theory.

Students are encouraged to meet with their academic adviser to discuss their major requirements and degree progress. For more information, students should refer to the preapproved course equivalency list at nyu.edu/shanghai/academics.

SELECT MATHEMATICS COURSES

- ▶ Calculus
- ▶ Differential Geometry
- ▶ Functions of a Complex Variable
- ▶ Honors Analysis I and II
- ▶ Honors Calculus
- ▶ Honors Linear Algebra I and II
- ▶ Introduction to Stochastic Processes
- ▶ Mathematics of Finance
- ▶ Multivariable Calculus
- ▶ Networks and Dynamics
- ▶ Numerical Analysis
- ▶ Ordinary Differential Equations
- ▶ Partial Differential Equations
- ▶ Precalculus
- ▶ Probability and Statistics
- ▶ Theory of Probability



New York University is an affirmative action/equal opportunity institution.

STUDENT LIFE

On-site staff provide support for you during your time abroad. Orientation, trips, student clubs, and language exchanges throughout the semester help you connect with your host culture. Housing varies by location and is guaranteed to all students.

HOW TO APPLY

For more detailed information, including a complete list of current course offerings and application guidelines, visit the NYU Office of Global Programs website at nyu.edu/global-programs. Information about Summer Session and January Term programs abroad can be found at nyu.edu/summer and nyu.edu/january. Financial aid and scholarships are available to all NYU students.

FOR MORE INFORMATION

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Academics

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Course offerings at all global locations are subject to change and can vary by semester. Not all course options are available to all students. Refer to nyu.edu/global-programs for the most up-to-date information.

nyu.edu/global-programs