

# MATHEMATICS MAJOR

## Requirements

Eleven courses beyond Calculus 1 and Calculus 2 are required to receive the Bachelor of Arts in mathematics.

Course	Title	Credits
<b>Required Courses</b>		
MATH 1700	Mathematical Modelling	4
MATH 2001	Discrete Mathematics	4
MATH 2004	Multivariable Calculus I	4
MATH 2006	Linear Algebra I	4
MATH 3005	Abstract Algebra I	4
<b>Concentration</b>		
Select one of the following concentrations:		16
<i>Pure Mathematics Concentration</i>		
MATH 3001	Linear Algebra II	
MATH 3003	Real Analysis	
MATH 3004	Complex Analysis	
MATH 4009	Topics in Geometry	
<i>Applied Mathematics Concentration</i>		
MATH 3002	Differential Equations	
MATH 3006	Probability	
MATH 3007	Statistics	
MATH 4006	Numerical Analysis	
<b>Electives</b>		
Select two electives. Must be four credit MATH courses numbered 2000 or higher <sup>1</sup>		

<sup>1</sup> Any course with the MATH subject code may fulfill this requirement.

## Additional Information

To graduate with a mathematics major, a student must have a cumulative grade point average of at least 2.0 in all courses in the major.

We strongly recommend that mathematics majors or minors take CISC 1600 Computer Science I as early as their schedules allow.

Prospective mathematics majors should consult with the chair before constructing a plan of study.

## Bachelor of Science degree

The above courses are required to receive the degree of Bachelor of Arts in mathematics. To receive the Bachelor of Science degree, students must also complete two of the following courses:

Course	Title	Credits
PHYS 1601	Introduction to Physics I	4
PHYS 1602	Introduction to Physics II	4
PHYS/NSCI 1701	Physics I	3
PHYS/NSCI 1702	Physics II	3
CISC 1600	Computer Science I	3
CISC 2000	Computer Science II	3
CISC 2200	Data Structures	4

## Availability

The major in mathematics is available at Fordham College at Rose Hill and Fordham College at Lincoln Center. Students in Fordham's School of Professional and Continuing Studies may major in mathematics only if they receive the approval of their advising dean and/or department, and their schedules are sufficiently flexible to permit them to take day courses at the Rose Hill or Lincoln Center campuses.

**Fordham College at Rose Hill students:** The requirements above are in addition to those of the Core Curriculum.

**Fordham College at Lincoln Center students:** The requirements above are in addition to those of the Core Curriculum.

**Professional and Continuing Studies students:** The requirements above are in addition to those of the PCS Core Curriculum and any additional electives that may be required to earn a minimum of 124 credits.

## CIP Code

27.0101 - Mathematics, General.

You can use the CIP code to learn more about career paths associated with this field of study and, for international students, possible post-graduation visa extensions. Learn more about CIP codes and other information resources.