MATHEMATICS AND COMPUTER SCIENCE (MINOR)

Department Website (http://cs.nyu.edu/)

Program Description

The joint minor in mathematics and computer science is an interdisciplinary minor offered by the Departments of Mathematics and Computer Science at NYU's renowned Courant Institute of Mathematical Science. Only students who have completed at least two (2) CSCI-UA courses numbered CSCI-UA 101 or higher and at least two (2) MATH-UA courses numbered MATH-UA 120 or higher—all with a grade of C or better—are eligible to declare this minor.

Minor Declaration

To request declaration of a minor, CAS students should visit the host department. To request declaration of a cross-school minor, CAS students should complete the online Minor Application available in their Albert Student Center. Students may also use the Minor Application (https://www.nyu.edu/students/student-information-and-resources/registration-records-and-graduation/forms-policies-procedures.html) in Albert to request cancellation of a CAS or cross-school minor.

Program Requirements

This minor requires the completion of four 4-credit courses (16 credits) with a grade of C or better as outlined below.

Course	Title	Credits
Minor Requirements		
MATH-UA 121	Calculus I	4
MATH-UA 122	Calculus II	4
CSCI-UA 101	Intro to Computer Science	4
CSCI-UA 102	Data Structures	4
Total Credits		**16**

Policies

Program Policies

Policies Applying to the Joint Minor in Mathematics and Computer Science

- Only students who have completed at least two CSCI-UA courses numbered CSCI-UA 101 or higher and at least two MATH-UA courses numbered MATH-UA 120 or higher—all with a grade of C or better—are eligible to declare a joint minor in mathematics and computer science.
- Courses from the Calculus sequence (MATH-UA 121 Calculus I, MATH-UA 122 Calculus II, MATH-UA 123 Calculus III) and the Mathematics for Economics sequence (MATH-UA 131 Mathematics for Economics I, MATH-UA 132 Mathematics for Economics II, MATH-UA 133 Mathematics for Economics III) sequence cannot both be applied to this joint minor. Students must take either Calculus I and II or Mathematics for Economics I and II. Note that students are not permitted to combine or double-count between the Calculus and Mathematics for Economics sequences or to register simultaneously for separate courses within the two sequences.
- At least one of the math courses must be taken as a MATH-UA course at NYU CAS.

- A student who already has test credit or transfer credit for both Calculus I and II must take an additional MATH-UA elective numbered MATH-UA 120 or higher (excluding Mathematics for Economics I, II, III).
- Students may double count no more than two courses between the requirements of this minor and a major or second minor.
- Courses graded Pass/Fail are not counted toward the minor.
- A grade of C or better is required in all courses to count toward the minor.

Required Coursework in CAS (-UA) for all Majors and Minors in Courant

At least half of the courses applied to the Courant requirements of the CAS majors and minors in Computer Science and in Mathematics (including joint programs) must be CSCI-UA and MATH-UA courses taken in New York or at NYU study away sites. This is a built-in limit on how many courses students may take in these subjects that are (for example) sponsored by NYU Abu Dhabi and NYU Shanghai under CS-UH, MATH-UH, CENG-SHU, CSCI-SHU, and MATH-SHU. Internal and external transfers must pay close attention to this policy, but it also applies to students who matriculate as first-years. The usual CAS policies on -UA residency for the baccalaureate degree still apply.

Additional Restrictions

- Tandon students are not permitted to declare this joint minor, since a similar joint minor is offered at their home school (Tandon School of Engineering).
- Students who are planning to declare a data science major, or who already have a declared data science major, are not permitted to declare this joint minor due to significant course overlap between the data science major requirements and the joint mathematics and computer science minor requirements.

School of Engineering Courses

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CAS students (in any major or minor) are not permitted to take
computer science courses in the Tandon School of Engineering.
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NYU Policies

University-wide policies can be found on the New York University Policy pages (https://bulletins.nyu.edu/nyu/policies/).

College of Arts and Science Policies

A full list of relevant academic policies can be found on the CAS Academic Policies page (https://bulletins.nyu.edu/undergraduate/arts-science/academic-policies/).