Mathematics

Website (https://cos.northeastern.edu/mathematics/)

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Mathematics is of ever-increasing importance to our society and everyday life. It has long been the language of science and technology and provides a rich source of methods for analyzing and solving problems encountered in the physical world. Today, mathematics is essential in virtually all fields of human endeavor, including business, the arts, and the social sciences.

The Bachelor of Arts degree requires at least 11 mathematics courses and two physics courses, in addition to the study of a foreign language; this program is appropriate for students who wish a broader liberal arts education. The Bachelor of Science degree requires at least 14 mathematics courses and two physics courses but no foreign language study; it is more specialized, and it is recommended for those strongly interested in mathematics and science. The department also offers a minor in mathematics.

The major programs provide flexibility with elective courses. Students may take advantage of a range of interdisciplinary programs and join study of mathematics with study of fields such as computer science, physics, and biology.

Exceptional students are accepted into the John Martinson Honors Program (https://honorsprogram.sites.northeastern.edu/) and have the option to enroll in honors sections of several of their mathematics courses. All math majors may benefit from co-op opportunities in the scientific and business communities in Boston and elsewhere.

Many of the mathematics courses that we offer use computers for visualization, modeling, and numerical approximation.

Students planning to teach secondary school mathematics must major in mathematics and complete coursework in education, as well as student teaching.

Mathematical training may lead to opportunities in applied research (natural sciences, engineering, economics, management, computer science) as well as in mathematical research, teaching, or industry.

Programs

Bachelor of Arts (BA)

- Mathematics (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-ba/)

Bachelor of Science (BS)

- Mathematics (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-bs/)
- Biology and Mathematics (https://catalog.northeastern.edu/undergraduate/science/biology/biology-mathematics-bs/)
- Computer Science and Mathematics (https://catalog.northeastern.edu/undergraduate/computer-information-science/computer-information-science-combined-majors/computer-science-mathematics-bs/)
- Data Science and Mathematics (https://catalog.northeastern.edu/undergraduate/computer-information-science/computer-information-science-combined-majors/data-science-mathematics-bs/)
- Design and Mathematics (https://catalog.northeastern.edu/undergraduate/arts-media-design/art-design/design-mathematics-bs/)
- Economics and Mathematics (https://catalog.northeastern.edu/undergraduate/social-sciences-humanities/economics/economics-mathematics-bs/)
- Mathematics and Business Administration (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-business-administration-bs/)
- Mathematics and Philosophy (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-philosophy-bs/)
- Mathematics and Physics (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-physics-bs/)
- Mathematics and Political Science (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-political-science-bs/)
- Mathematics and Psychology (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-psychology-bs/)
- Mathematics and Sociology (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-sociology-bs/)

Minor

- Mathematics (https://catalog.northeastern.edu/undergraduate/science/mathematics/mathematics-minor/)

Accelerated Programs

See Accelerated Bachelor/Graduate Degree Programs (https://catalog.northeastern.edu/undergraduate/science/accelerated-bachelor-graduate-degree-programs/#programstext)

The colleges that offer the following program have approved suspension of admissions to this program for 2025-2026:

- Graphic and Information Design and Mathematics, BS (https://catalog.northeastern.edu/undergraduate/arts-media-design/art-design/graphic-and-information-design-mathematics-bs/)