Department of Mathematics

Department Information

- www.ndsu.edu/math (http://www.ndsu.edu/math/)

Undergraduate Programs of Study

- Mathematics (major, minor)
- Mathematics and Computer Science (double major)
- Mathematics and Physics (double major)
- Mathematics and Statistics (double major)

Graduate Programs of Study

- Mathematics

Degrees Offered

- Bachelor of Arts (B.A.)
- Bachelor of Science (B.S.)
- Master of Science (M.S.)
- Doctor of Philosophy (Ph.D.)

Department Description

Mathematics is the language of science and technology. Its explosive development in the 20th century and its history as the oldest and most highly developed discipline make it one of the most exciting and rewarding areas of study.

The use of mathematics and the need for mathematical competence has increased tremendously. Mathematical training is in high demand in such fields as actuarial science, business, economics and commerce, engineering, and statistics, as well as the basic sciences. These disciplines, in turn, provide new directions to the mathematical community. Trends indicate that students should plan their programs to reflect the increased emphasis on interdisciplinary competency.

Students are able to study theoretical and applied mathematics to prepare for careers or for further schooling while studying with faculty members who have a wide range of interests and expertise. Students may earn academic credit by applying what they have learned in the classroom as they gain on-the-job experience through the Cooperative Education program. Opportunities also exist for students to work as paper graders and assistants to professors.

The department offers a broad and balanced curriculum of courses. A student may major or minor in Mathematics or Mathematics Education.

Students interested in Mathematics Education should consult with their major adviser and the School of Education (https://www.ndsu.edu/education/) for professional education requirements. Students interested in Mathematics Education are encouraged to declare a double major in their discipline and in education (i.e., Mathematics Education and Mathematics).

Double Majors

Special double majors are available with Computer Science, Physics, and Statistics. These double majors take advantage of the close relationship between mathematics and other disciplines, and allow students pursuing a major in one of these fields to expand their mathematical background.

While the choice of major need not be made during the freshman year, an early decision allows more flexibility in tailoring programs to individual interests. The department also has a graduate program offering both an M.S. and a Ph.D. in Mathematics.