BACHELOR OF ARTS IN MATHEMATICS

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The power of mathematics lies in its focus on precise and logical reasoning to draw conclusions and make discoveries in many domains, both abstract and concrete.

The idea of mathematics as a process of carrying out procedures and following rules to produce a single right answer is a misconception. At the college level, the discipline is fully realized as a way of thinking, which can be applied in almost any context, wherever the basis for what is true or false can be understood while minimizing fuzziness or ambiguity.

The starting point in mathematics is not a large body of facts, but is instead a small number of ideas that are made precise and thoroughly understood. Mathematical knowledge is built from these in a way that gives us access to the steps that form the logical basis for why something makes sense.

Times have changed. We live in a world where decisions need to be justified with data and conclusions need to be quantified. To be effective, we must critically evaluate judgments based on data and quantifiable observations, and present arguments in a logical fashion. Presenting conclusions alone is not enough; they must be explained in a way that convinces others, supported by sound logical reasoning. This kind of argument is the focus of mathematics.

Ultimately, mathematics builds our ability to create new knowledge, justify new conclusions, and make new discoveries in any realm where logical thought yields power—which is to say, just about everywhere.

Consequently, the study of mathematics will better enable you to succeed in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in other disciplines, from chemistry to political science to sociology, at a more advanced level. This is also why mathematics majors find careers in o...
College of Arts and Sciences Curriculum

The College of Arts and Sciences offers bachelor of arts and bachelor of science degrees. As the home of the liberal arts at Quinnipiac, CAS encourages students to pursue a balanced program of study across multiple disciplines. In pursuit of that goal, CAS imposes additional requirements beyond the University Curriculum.

All CAS students (both bachelor of science and bachelor of arts) must complete one foreign language through the 102-level. Foreign language classes may also count toward the UC Personal Inquiry II requirement.

Additionally, students earning a bachelor of arts must fulfill separate requirements for breadth and depth of study.

For the breadth requirement, students must complete at least 3 credits in each of the four CAS disciplinary areas other than the area of the student’s major. These areas are: fine arts, humanities, natural sciences and social sciences. For example, a student majoring in political science—a social science discipline—would complete at least 3 credits each in fine arts, humanities and natural science. A course taken to fulfill the CAS breadth requirement may not simultaneously fulfill any UC requirement.

For the depth requirement, students must complete at least 9 credits within a single subject area other than that of the major. (A “subject area” is identified with a catalog subject code, such as PL, CJ, WS, MA, etc.) CAS depth courses may also count toward UC requirements.

Students pursuing a bachelor of science, a double major, or certain accelerated degree programs are exempt from the CAS breadth and depth requirements, but must complete the foreign language requirement.

Student Learning Outcomes

Students graduating with a major in mathematics will demonstrate the following competencies:

1. **Application**: Apply the fundamental concepts of calculus and linear algebra to solve both abstract and applied problems.
2. **Communication**: Communicate mathematics effectively, both orally and in writing.
3. **Collaboration**: Collaborate effectively to understand and solve mathematical problems.
4. **Abstraction**: Recognize and describe abstractions that unify mathematical structures and problems.
5. **Appreciation**: Articulate an understanding of the nature and value of mathematics and the unique epistemology of the subject.
6. **Technology**: Apply appropriate technology in exploring mathematical concepts and solving mathematical problems.
7. **Independence**: Independently investigate and acquire mathematical knowledge and formulate strategies to solve mathematical problems.
8. **Analysis**: Read and judge the validity of mathematical proofs and write proofs that are clear and valid.

Admission Requirements: College of Arts and Sciences

The requirements for admission into the undergraduate College of Arts and Sciences programs are the same as those for admission to Quinnipiac University.

Admission to the university is competitive, and applicants are expected to present a strong college prep program in high school. Prospective first-year students are strongly encouraged to file an application as early in the senior year as possible, and arrange to have first quarter grades sent from their high school counselor as soon as they are available.

For detailed admission requirements, including required documents, please visit the Admissions (http://catalog.qu.edu/general-information/admissions/) page of this catalog.