Mathematics, BA

Bachelor of Arts students majoring in mathematics enroll in one of these programs: Program A is for students who plan to work in business or government or pursue graduate study in mathematics; Program B is for students who seek secondary school teaching licensure; and the program with a related specialization may be especially appropriate for students who plan to seek a math-related job after earning the bachelor's degree rather than going on to graduate study. Defined areas of specialization include business (economics, finance, or risk management and insurance), data sciences (biostatistics, computer science, data science, or statistics and actuarial science), and physical sciences (biochemistry, biomathematics, chemistry, or physics). Program C is also available for students who wish to design their own area of specialization, like engineering.

Learning Outcomes

Math majors will be able to:

- give correct, logical mathematical proofs using mathematical terminology and hypotheses;
- reason logically and quantitatively using algebraic, analytic, and numerical methods;
- incorporate mathematical ideas and reasoning into well-written English; and
- model and analyze problems in pure mathematics and in other disciplines.

Transfer From Engineering to Mathematics

Certain engineering students who have completed MATH:1550 Engineering Calculus I, MATH:1560 Engineering Calculus II, MATH:2550 Engineering Matrix Algebra, MATH:2560 Engineering Differential Equations, or MATH:3550 Engineering Vector Calculus may count these courses toward the major in mathematics. See the Department of Mathematics website.