

# MATHEMATICS, B.S. (BEHREND)

---

**Begin Campus:** Any Penn State Campus

**End Campus:** Erie

## Career Paths

You can tailor your math degree to your career goals by pursuing one of four options. Applied Mathematics emphasizes numerical analysis, modeling, and problem solving. Pure Mathematics is excellent preparation for graduate school. The Business Option includes additional coursework in statistics, management information systems, economics, and finance. The Computer Science Option emphasizes programming, algorithms, and numerical methods. Penn State Behrend has a comprehensive support system to help you identify and achieve your goals for college and beyond. Meet with your academic adviser often and take advantage of the services offered by the Academic and Career Planning Center.

## Careers

A degree in mathematics can lead to careers in fields as varied as actuarial planning, computer systems design, software engineering, information systems, mathematical biology, mathematics education, operations research, programming management, quality control analysis, system analysis, data analysis, financial analysis, national security and defense, and technical writing. The demand for mathematicians is projected to be strong because of a shortage of science teachers and a growing need for specialists in actuarial mathematics, computer network efficiency, and data analysis. For students interested in both mathematics and teaching, Penn State Behrend also offers a B.S. in Secondary Education in Mathematics.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE MATHEMATICS PROGRAM (<https://behrend.psu.edu/school-of-science/academic-programs/mathematics/>)

## Opportunities for Graduate Studies

Graduates may continue their studies to earn a master's or doctoral degree in pure math, applied math, or other technical fields. Mathematics is a common foundational major for graduate study in the natural sciences, engineering, business and economics, statistics or biostatistics, operations research, and national security analysis. Mathematics also is a useful undergraduate major for future architects, doctors, lawyers, and other professionals.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (<https://behrend.psu.edu/school-of-science/academic-programs/mathematics/>)

## Professional Resources

- Mathematical Association of America (<https://maa.org>)
- American Mathematical Society (<https://www.ams.org/home/page/>)
- National Association of Mathematicians (<https://www.nam-math.org/>)
- Society for Industrial and Applied Mathematics (<https://www.siam.org/>)