

MATHEMATICAL SCIENCES, B.S.

Begin Campus: Any Penn State Campus

End Campus: Harrisburg

Career Paths

The Mathematical Sciences program is designed to prepare students for employment in business, industry, and government or for graduate studies. The general option provides a core mathematics degree along with flexibility to incorporate courses relevant to other areas such as actuarial science, operations research, statistics, or pure mathematics. The data science option is oriented towards the area of data science. The secondary education option prepares students to teach middle school and high school mathematics and has been recognized by the National Council of Teachers of Mathematics (NCTM) and is approved by the Pennsylvania Department of Education.

Careers

According to projections by the U.S. Bureau of Labor Statistics, employment in occupations that require at least a bachelor's degree in mathematics is expected to grow faster than employment in other sectors of the American labor market. Computer-related occupations are predicted to grow at a rate of more than 100 percent. The demand for secondary math school teachers is projected to increase by 22 percent. Insurance, securities, real estate, and business service occupations are projected to add more than 100,000 jobs, yielding an employment growth rate of 17 percent.

MORE INFORMATION ABOUT POTENTIAL CAREER OPTIONS FOR GRADUATES OF THE MATHEMATICAL SCIENCES PROGRAM (<https://harrisburg.psu.edu/science-engineering-technology/mathematical-sciences-bs/career-opportunities/>)

Opportunities for Graduate Studies

The mathematical sciences general option provides the broad mathematical background requisite for postgraduate studies in mathematical sciences, statistics, or related disciplines. Advanced study will lead to further opportunities within higher education, business, and industry.

MORE INFORMATION ABOUT OPPORTUNITIES FOR GRADUATE STUDIES (<https://harrisburg.psu.edu/science-engineering-technology/mathematical-sciences-bs/>)

Professional Resources

- Mathematical Association of America (<https://www.maa.org>)
- American Mathematical Society (<https://www.ams.org/home/page/>)
- Society for Industrial and Applied Mathematics (<https://siam.org>)
- National Council of Teachers of Mathematics (<https://www.nctm.org>)
- Pennsylvania Council of Teachers of Mathematics (<https://pctm.org>)