



MASTER OF SCIENCE IN MATHEMATICS

Job opportunities for mathematicians and statisticians are growing exponentially. Data collection in the digital age requires context and interpretation. If you're ready for the challenge, West Chester University is here for you!

The Master of Science in Mathematics at WCU was designed with flexibility in mind. The 33-credit program includes a core curriculum (12-credits) with the opportunity for focused study through electives. The core courses (Abstract Algebra, Linear Algebra, Analysis, and Differential Equations) provide a foundation in both theoretical and applied mathematics. Students then specialize in one of three concentration areas: theoretical, applied and computational, or educational concentrations.

Elective courses prepare our students for positions in actuarial science, computer science, operations research, biomathematics, cryptography, education at the high school or community college level, research, economics, environmental mathematics, geophysical mathematics, air traffic control operations, photogrammetry, and many more.

Each student completes a capstone experience in the form of either a thesis or an e-portfolio. A thesis is recommended for students who would like to pursue a doctoral degree in mathematics or a related field, or be employed as a research mathematician.

PROGRAM HIGHLIGHTS

- Faculty experts
- Opportunities for collaborative faculty research
- Concentrations in pure mathematics, applied and computational mathematics, and mathematics education
- Colloquium series giving access to world experts in mathematics and mathematics education
- Personalized advising experience
- State-of-the-art computational mathematics laboratories
- Affordable tuition
- Evening courses for students in the workforce

OUTCOMES

Our graduates are in demand and find positions across the country and the world, including with the following employers:

- Internal Revenue Service
- U. S. Census Bureau
- Ford Motor Co.
- Transamerica Insurance Co.
- Jet Propulsion Laboratory
- IBM Corporation
- Center for Communications Research
- A. C. Nielsen Co.
- American Airlines
- U. S. Department of Energy
- Exxon Production Research Co.
- United Airlines
- Bureau of Labor Statistics
- Prudential Securities
- International Computer Science Institute
- National Security Agency
- Silicon Graphics



Master

Master's degree is typical entry level education

Statistics according to bls.gov



\$88,190

median pay for mathematicians and statisticians



33%

projected job growth for mathematicians and statisticians through 2026

APPLICATION REQUIREMENTS

A complete application to the Master of Science in Mathematics program consists of the following:

1. A bachelor's degree, or the equivalent of, in mathematics, or a related field
2. Official transcripts from all institutions of higher education
3. Two letters of recommendation
4. Written statement of personal goals
5. Applicants must schedule an interview with the graduate coordinator prior to enrollment. A full treatment of calculus along with advanced undergraduate courses in analysis, linear algebra, differential equations and statistics are required. In the case of missing prerequisite coursework, conditional admission may be granted and applicants would be required to complete appropriate courses prior to enrollment.

Applicants may apply online at www.wcupa.edu/applynow.

FOR MORE INFORMATION

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