GRADUATE STUDIES
MASTER OF SCIENCE IN MATHEMATICAL SCIENCES

MATHEMATICAL SCIENCES

PFW.EDU/GRADUATE
On behalf of the Department of Mathematical Sciences at Purdue University Fort Wayne, I thank you for your interest in our graduate program. As requested, I am enclosing information on math graduate studies. Detailed information about our programs is available at pfw.edu/math. I would be happy to answer any questions; I can be reached at 260-481-6233 or via email.

Doug Weakley, Ph.D
Professor
Mathematics Graduate Program Director
weakley@pfw.edu
BENEFITS

SPECIALIZE YOUR DEGREE

Each of the Purdue University graduate degrees offered by mathematical sciences is flexible, allowing you to tailor it to your needs and interests:

- The Master of Science in Mathematics incorporates recent developments in applied mathematics and statistics into a curriculum built on solid mathematical foundations.
- The Graduate Certificate in Applied Statistics offers the knowledge and experience needed for strategic planning and quality control. Courses applied toward the certificate can also be counted toward the master’s degree.

EXPERIENTIAL LEARNING

Our program emphasizes the value of the practical application of knowledge and skills. Not only will you examine the concepts, theories, and research of the discipline, you will learn to apply them.

THE PURDUE FORT WAYNE DIFFERENCE

Stand out with a graduate degree that enhances your qualifications through:

- Small class sizes
- Personal attention from dedicated faculty
- Course offerings designed for working adults
- Internationally recognized degree at a fraction of the cost

"The Purdue Fort Wayne graduate program in Mathematics was everything I was looking for and more. It was engaging, thorough and highly interactive. The courses covered a broad range of areas and disciplines, each with significant depth, and the knowledge of the professors was outstanding. My experiences not only expanded my knowledge of mathematics, but also taught me effective ways to motivate and teach the students in my classroom."

Jason Barnes

"As an undergraduate, I didn’t even want to pursue a bachelor’s degree in mathematics. I earned my B.A. in chemistry and minored in mathematics. At Purdue Fort Wayne, I caught up on some of the courses I was missing in the process of pursuing my M.S. Then, after graduating from Purdue Fort Wayne, I worked at a software company for two years before deciding to pursue my Ph.D. Faculty at Purdue Fort Wayne were great to work with, and have always been very supportive. Dr. (Doug) Weakley was tremendously helpful in helping with my transition into the program at Purdue Fort Wayne."

Jeff Shriner
MASTER OF SCIENCE IN MATHEMATICS (30 CREDIT HOURS)

The Master of Science in Mathematics is suitable for individuals in a business or industry that requires significant mathematics application. This program incorporates applied mathematics into a curriculum based on a sound mathematical foundation. Students in this program should have a background in mathematics that includes linear algebra and ordinary differential equations.

The course of study requires completion of 30 credit hours, which include core mathematics courses, and additional graduate level courses with substantial mathematical or statistical content. They may be from areas such as physics, engineering, or business, as well as statistics, mathematics, or computer science.

MATHEMATICS CORE REQUIREMENTS

- MA 51100 Linear Algebra with Applications
- MA 54000 Analysis I
- STAT 51900 Introduction to Probability

ONE OF THE FOLLOWING:

- MA 52500 Complex Analysis
- MA 52100 Optimization Theory
- STAT 52800 Introduction to Mathematical Statistics

ADDITIONAL REQUIREMENTS:

18 additional credits approved by your advisory committee
GRADUATE CERTIFICATE IN APPLIED STATISTICS

The Graduate Certificate in Applied Statistics is designed to give technical managers and engineers the statistical knowledge and experience needed for good planning and quality control. For admission, you need to have had calculus and a statistics course.

Courses applied toward this certificate may also be used toward the master’s degree.

REQUIRED COURSES

STAT 51900 Introduction to Probability
STAT 52800 Introduction to Mathematical Statistics
Two of the following:
  STAT 51200 Applied Regression Analysis
  STAT 51400 Design of Experiments
  STAT 51800 Introduction to Statistical Learning
  STAT 52000 Time Series and Applications

ADDITIONAL REQUIREMENTS

The certificate requires a grade of B- or better in each course. At most, one course may be transferred from another institution. Courses applied toward the certificate may also be applied toward the Purdue Fort Wayne master’s programs in mathematics.

ADMISSION REQUIREMENTS

To earn the graduate certificate in applied statistics, prospective students should meet the requirements for Purdue Fort Wayne graduate admission. These include:

- Bachelor’s degree from an accredited institution
- Minimum undergraduate GPA of 3.0/4.0 with the possibility of conditional admission for those who do not meet this requirement
- Additional information can be found in the following pages
APPLICATION

DEADLINES

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STEPS TO APPLY

1. **Application:** To begin your application create an account through the portal at pfw.edu/grad-apply. Applicants can make and save changes before submitting by logging in with the username and password used to create the account.

2. **Application Fee:** The Graduate School application fee is $60 (U.S. dollars) for domestic applicants and $75 (U.S. dollars) for international applicants. Your application will not be processed until your nonrefundable application fee has been paid.

3. **Transcripts:** Through the application portal, you must upload transcript(s) and/or academic document(s) for every institution of higher education you attended regardless of whether or not a degree was received. If a degree was received then it must be printed on the transcripts. If no degree conferral is printed on the transcripts then a copy of the original diploma (degree certificate) is needed. If the documents are not in English, you must upload an English translation certified by the college or university that issued it. For those who have completed degrees in the People’s Republic of China, you will also be required to submit the Graduation Certificate.

4. **Statement of Purpose (Essay):** The statement of purpose should be 300-500 words concerning your purpose for undertaking or continuing graduate study, your reasons for wanting to study at Purdue Fort Wayne, and your research interests, professional plans, and career goals. You also may explain any special circumstances applicable to your background and elaborate on your scholarly publications, awards, achievements, abilities, and/or professional history.

5. **Recommendations:** Submit names of three individuals who are qualified to evaluate your academic or on-the-job performance who can attest to your ability to pursue a graduate degree. In the online application to the Purdue Graduate School, once you click “Send to Recommender,” each individual will receive an email with instructions for submitting their recommendation online. Once submitted, the graduate program to which you applied will have access to view your recommendation(s).

OFFICIAL TRANSCRIPTS

You must provide official transcripts and/or academic records at the request of the graduate program or if you are admitted and choose to enroll. An official transcript bears the original signature of the registrar and/or the original seal of the issuing institution. An unofficial transcript printed from your current/previous institution(s) student system is not an acceptable document. Official documents should be submitted to:

Purdue University Fort Wayne
Office of Graduate Studies
2101 E Coliseum Blvd., KT 140
Fort Wayne, IN 46805

Domestic transcripts must be mailed directly from a Registrar’s office to the Office of Graduate Admissions. (You can choose to send the transcripts yourself, but the transcripts must be in an envelope sealed by the Registrar).
All international applicants must also submit the following items to be considered for admission:

1. English Proficiency Scores:
   **TOEFL for Non-Native English Speakers**
   Minimum Paper-Delivered Test - no overall score reported with the following minimum section requirements:
   - Reading: 19
   - Writing: 18
   - Listening: 14
   Minimum Internet-Based Test (IBT) Overall Score: 80 with the following minimum section requirements:
   - Reading: 19
   - Speaking: 18
   - Listening: 14
   - Writing: 18

   **IELTS (Academic Module): An alternative to the TOEFL, overall band score of 6.5 or higher with minimum section requirements:**
   - Reading: 6.5
   - Listening: 6.0
   - Speaking: 6.0
   - Writing: 5.5

   **ELS - Certificate Level 112**
   Routine waivers of an English Proficiency exam are granted for applicants who have been conferred a baccalaureate or graduate or professional degree within the last 24 months from an institution where English is the primary language of instruction in a country/location where English is the native language.

2. Transcript Evaluation
   International Applicants must submit original and certified copies for every institution of higher education attended. All documents must be submitted in both English and in the original language. All candidates must hold a four-year undergraduate degree or equivalent in any discipline from a recognized institution.

3. Proof of Financial Support
   An official letter and financial statement from a bank, company, or government sponsor indicating the availability of sufficient funds to pay for your tuition and living expenses is required.

4. Visa and/or Permanent Resident Card (PRC)

**INTERNATIONAL TRANSCRIPTS SHOULD BE MAILED DIRECTLY TO THE OFFICE OF INTERNATIONAL EDUCATION**

Purdue University Fort Wayne
International Education
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