Master of Arts in Mathematics

Department of Mathematics and Computer Science

The M.A. in Mathematics provides a solid background in basic graduate-level mathematics. It prepares students for advanced graduate study, post-secondary teaching, or work in industry or government. Our graduates have been very successful in obtaining teaching jobs at community colleges continuing on in Ph.D. programs in the mathematical sciences. Elective courses allow specialized study in areas such as pure mathematics, applied mathematics, computer sciences and mathematics education.

Degree Requirements

- A minimum of 34 semester hours (32 if a thesis is written) of graduate level courses as approved by the Graduate Committee of the Mathematics and Computer Science Department.
- Each program must include MAT 5000 Graduate Seminar, MAT 5100 Abstract Algebra, MAT 5220 Topology, MAT 5301 Real Variables and MAT 5330 Complex Variables.
- If the student did not complete MAT 4760 Linear Algebra and MAT 4860 Mathematical Analysis or their equivalents as an undergraduate, they must be included in the course load.
- A maximum of 10 semester hours of courses number MAT 4750 to MAT 4999 may be applied to the program.
- The program may include up to 8 semester hours of courses in related areas, and include at least 24 semester hours of courses numbered MAT 5000 and above.
- In addition to coursework, students are required to complete either a thesis or comprehensive exam(s).

Admission Requirements

To be admitted to the program, you must first be admitted to the Graduate School: http://www.eiu.edu/graduate/prospective_admissions.php

Applicants for admission must:

- satisfy all university general admission requirements
- hold a bachelor's degree from an accredited college or university
- submit a complete and official transcript from each institution attended

To complete the application process to our program, students must also:

- submit GRE scores
- two letters of recommendations (optional)
- statement of purpose (optional)

Graduate Assistantships

Graduate teaching assistantships are awarded on a competitive basis. They include tuition waivers and stipends. Additional support may be available during the summer. Teaching assistants teach one course each semester, which is usually Intermediate Algebra or College Algebra. This teaching experience is beneficial and valuable

for strengthening one's resume for either obtaining a teaching job or for progressing onto a Ph.D. program. Please apply online at http://www.eiu.edu/graduate/assistantships/assistantships.php.

Helpful Links

- Financial Aid: http://www.eiu.edu/finaid/cost.php
- Housing: http://www.eiu.edu/housing/international.php
- University Apartments: http://www.eiu.edu/housing/universityapts.php

Faculty Research Interests

- Dr. Alejandra Alvarado: Number Theory; Diophantine Equations
- Dr. Rick Anderson: Mathematics Teaching in the Middle School
- Dr. Peter Andrews: Theory of Computation; Computational Geometry; Topology
- Dr. Charles Delman: Geometric Topology; Dynamical Systems; Geometry
- Dr. Gregory Galperin: Dynamical Systems; Geometry; Differential Geometry; Theory of Math Billiards; Theory of Automata
- Dr. Evgeny Gordon: Logic and Analysis
- Dr. Grant Lakeland: Geometric Topology; Hyperbolic Geometry
- Dr. Marshall Lassak: Fractal Geometry; Technology for Learning and Teaching Mathematics
- Dr. Andrew Mertz: Cryptography; Information Theory; Artificial Intelligence
- Dr. Andrew Parrish: Ergodic Theory and Dynamical Systems
- Dr. Kamlesh Parwani: Dynamical Systems
- Dr. Bogdan Petrenko: Algebra; Number Theory
- Dr. Nancy Van Cleave: Computer Science Education; Minority and Women Education; Graph Theory
- Dr. Peter Wiles: Mathematics Education; Teacher Knowledge

After you have had an opportunity to review the website information, please let me know if you have any other questions. I look forward to working with you through the admission and registration process.

Alejandra Alvarado, Ph.D.
Graduate Coordinator for
M.A. in Mathematics
http://www.eiu.edu/mathgrad/