Want to discover the most innovative and effective ways to teach mathematics? Want to find out how students actually learn math and how they approach tackling problems? The PhD in mathematics education at ASU encourages interdisciplinary research that helps you understand how teachers teach and how learners learn.

Program Description

Degree Awarded: PHD Mathematics Education

This transdisciplinary PhD program accommodates students from a variety of academic backgrounds. It provides students with a solid foundation in graduate-level mathematics as well as research skills and perspectives that will allow them to deal broadly with mathematics problems of:

- curriculum
- learning
- teaching
- technology

Conducting individual and collaborative research in the learning and teaching of mathematics is an integral part of the program.

At a Glance

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** [Tempe campus](#)

Degree Requirements
84 credit hours, a written comprehensive exam, an oral comprehensive exam, a prospectus and a dissertation

Program requirements include the following:

- 12 credit hours of Research in Undergraduate Mathematics Education (RUME) 1-4, with qualifying exams given in RUME 1 and 2
- four graduate math courses from a list of options
- six credit hours of research (MTE 792)
- a written comprehensive examination
- an oral comprehensive examination
- an oral dissertation prospectus defense
- 12 credit hours of dissertation (MTE 799)

Students should see the school's website for information about qualifier and comprehensive examinations based on math coursework.

Each student must write a dissertation and defend it orally in front of five dissertation committee members.

**Admission Requirements**

Applicants must fulfill the requirements of both the Graduate College and The College of Liberal Arts and Sciences.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in mathematics or a closely related area, with exceptionally high grades in advanced coursework in mathematics, from a regionally accredited institution.

Applicants must have a minimum of a 3.00 cumulative GPA (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum of a 3.00 cumulative GPA (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. statement of education and career goals
4. writing sample
5. GRE (general) scores
6. three letters of recommendation
7. proof of English proficiency
Additional Application Information
An applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency.

Additional eligibility requirements include competitiveness in an applicant pool as evidenced by the required GRE scores.

At least two of the letters of recommendation must be from faculty.

Contact Information

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