Master of Arts in Mathematics

About This Program

The Master of Arts in Mathematics is designed to extend undergraduate mathematics experiences in the area of specialized mathematics content for secondary school and early college mathematics teaching. The program focuses on enhancing mathematics teaching through innovative preparation in topics grounded in secondary school and early college mathematics from an advanced standpoint. The program embraces a philosophy of teaching and learning mathematics that is consistent with the landmark *Standards* documents produced by the National Council of Teachers of Mathematics. This degree can provide considerable value to high school teachers wishing to teach dual credit courses or teach at a community college, or for teachers wishing to obtain an advanced degree that relates to and genuinely benefits their classrooms.

Competencies

1. Upon completion, students will have deepened their mathematical knowledge for teaching by focusing on advanced mathematical concepts that underlie and connect to the secondary school and early college mathematics curriculum.
2. Upon completion, students will have productive beliefs of themselves as mathematics problem solvers and of their students as mathematics learners.
3. Upon completion, students will be able to interpret and evaluate mathematical instructional activities and approaches according to their mathematical and pedagogical features.

Admissions Criteria

UNCONDITIONAL ADMISSION

For unconditional admission a student must meet items 1-3 or 3-5.

1. A BS or BA degree with at least 24 hours of mathematics coursework with a GPA of at least 3.0, as calculated by the Graduate School on a 4.0 scale.
2. Minimum of 146 on the verbal and 148 on the quantitative portions of the GRE if taken after August 2011. Minimum of 400 on the verbal and 600 on the quantitative portions of the Graduate Record Examination (GRE) if taken prior to August 2011.
3. Three favorable letters of recommendation from people familiar with the applicant's academic work and/or professional work.
4. A BS or BA. degree with a GPA of at least 3.0, as calculated by Graduate Admissions on a 4.0 scale.
5. Certified to teach mathematics at the Secondary Level (Secondary Mathematics Certification).

Applicants who do not satisfy requirements 1 or 2 above may be considered for unconditional admission if further review of their undergraduate transcript, recommendation letters, correspondence or direct interactions with mathematics faculty, and statement of professional or research interests indicates that they are qualified to enter the Master's Program without deficiency.

PROBATIONARY ADMISSION

If an applicant does not meet a majority of standards for unconditional admission outlined above, they may be considered for probationary admission after careful examination of their application materials. Probationary admission requires that the applicant receive a B or better in the first 12 hours of graduate coursework at UT Arlington.

DENIAL OF ADMISSION

Applicants may be denied admission if they have less than satisfactory performance on a majority of the admission criteria described above.

DEFERRED AND PROVISIONAL ADMISSION

A deferred decision may be granted when a file is incomplete or when a denied decision is not appropriate. An applicant unable to supply all required documentation prior to the admission deadline, but who otherwise appears to meet admission requirements, may be granted provisional admission.

Curriculum

Foundations

MATH 5341	MODERN GEOMETRY	3
MATH 5342	CONCEPTS AND TECHNIQUES IN ALGEBRA	3
MATH 5343	CONCEPTS AND TECHNIQUES IN PROBABILITY AND STATISTICS	3
MATH 5344	MATHEMATICS-SPECIFIC TECHNOLOGIES	3
MATH 5345	HISTORICAL APPROACH TO REAL ANALYSIS	3
MATH 5346	CONCEPTS AND TECHNIQUES IN PROBLEM SOLVING	3
Completion Options		

Select Thesis-Substitute or Non-Thesis Option	15-18
Thesis-Substitute Option	15
MATH 5395 SPECIAL PROJECT (Individual, Director-Approved Research)	
Select 12 hours of Math graduate courses (excluding courses numbered 5375-5379).	
Non-Thesis Option	18
Select 18 hours of Math graduate courses (excluding courses numbered 5375-5379)	
Total Hours	**33-36**

Program Completion

Students in the thesis-substitute plan must pass a final Master's exam, which consists of a formal presentation and discussion of the student's project to a committee of faculty.

Advising Resources

FOR PHD AND MASTER OF SCIENCE (M.S.) ADVISING

Location:

Pickard Hall 403

Email:

hristo@uta.edu

Phone:

(817) 272-5763

Web:

Contact Information and Scheduling (https://www.uta.edu/academics/schools-colleges/science/departments/mathematics/advising/)

FOR MASTER OF ARTS (M.A.) ADVISING

Location:

Pickard Hall 434

Email:

mathgradMAadvising@uta.edu

Phone:

817-272-3261

Web:

Contact Information and Scheduling (https://www.uta.edu/academics/schools-colleges/science/departments/mathematics/advising/)