

MASTER OF ARTS IN MATHEMATICS EDUCATION
UNIVERSITY OF CENTRAL ARKANSAS
DEPARTMENT OF MATHEMATICS

INTRODUCTION

The Master of Arts in mathematics education features mathematics courses developed to increase the mathematical content knowledge of secondary teachers and prepare candidates for teaching in the community college. The program is designed so that a teacher can complete the required courses by attending two consecutive summers and enrolling in evening courses during the intermittent fall and spring semesters or by attending full-time for a year including both summer terms.

ADMISSION

To be admitted to the M.A. degree program in mathematics education, the candidate must have a baccalaureate degree from an accredited institution, a minimum GPA of 2.70, and satisfactory scores on the General Test of the GRE.

FINANCIAL AID

Graduate Teaching Assistantships are available for fall/spring. Each assistantship includes a full-tuition scholarship of up to \$5,000 and a stipend of \$9,000 for nine months. Graduate Assistants are expected to enroll in nine credit hours and work 20 hours per week in the department. Applications for the graduate program and assistantships are available at the University's Graduate School website:

<http://www.uca.edu/divisions/academic/graduate/>

APPLICATION DEADLINE

Applications for Graduate Assistantships should be received by April 1 for fall semester and November 1 for the spring semester. Although applications for admissions can be submitted at any time, students are urged to have a completed applications and credentials on file as early as possible.

SPECIFIC REQUIREMENTS

To obtain the M.A. degree in mathematics education, the candidate must earn 30 graduate hours in mathematics within six years. The hours must include Math 6305, Math 6307, Math 6310, Math 6350, Math 6370 and Math 6375. If Probability and Statistics were not accomplished in the

undergraduate degree, a candidate's must include Math 5371 and Math 5372. The remaining hours may be selected from the following list of courses and may include courses at the 5000 level with the approval of the student's advisor. All candidates for the M.A. degree will be required to pass comprehensive examinations in three courses selected from their program of study.

COURSES

(For course description see the Graduate Bulletin website: <http://www.uca.edu/gbulletin/>)

REQUIRED

MATH5371-INTRODUCTION TO PROBABILITY:

MATH 5372- INTRODUCTION TO STATISTICAL INFERENCE

These two courses are required for the M.A. degree, if not previously taken as undergraduate.

MATH 6305-FOUNDATIONS OF MATHEMATICS FOR TEACHERS

MATH 6307-ADVANCED TOPICS FOR MATHEMATICS EDUCATORS

MATH 6310-ALGEBRAIC STRUCTURES FOR MATHEMATICS TEACHERS

MATH 6350-MODERN GEOMETRY

MATH 6370-DIFFERENTIAL CALCULUS FOR TEACHERS

MATH 6375-INTEGRAL CALCULUS FOR TEACHERS

ELECTIVES

Math5300-PROFESSIONALIZED SUBJECT MATTER FOR TEACHERS

MATH 6315-INTRODUCTION TO NUMBER THEORY

MATH 6340-HISTORICAL PERSPECTIVES OF MATHEMATICS

MATH 6342-MATHEMATICAL MODELING

MATH 6378-SYMMETRY ANALYSIS OF DIFFERENTIAL EQUATIONS

MATH 6380-SEMINAR