

MASTER OF ARTS IN EDUCATION

Secondary Mathematics, grades 9-12

(Admission to the MAE Program is a prerequisite for all of the following ED courses and MATH 608G)

The following courses must be completed prior to internship:	Credit	Grade	Sem.
ED 601G Measurement & Evaluation (Prerequisite: STAT 190 or equivalent)	3	_____	_____
ED 603G Learning Strategies for Print Discourse (Prerequisite: Minimum grade of C in ED 393)	2	_____	_____
MATH 608G Management of Instruction--(Offered fall semester only) Prerequisites: Minimum grade of C in ED 389 and ED 393; Minimum grade of C or concurrent enrollment in ED 593)	3	_____	_____
The following courses are required during the internship:			
ED 607G Applied Educational Psychology	3	_____	_____
ED 609G Teaching Internship in Mathematics (Prerequisites: ED 601G, ED 603G, MATH 608G and clearance on criminal record check and child abuse/neglect screening)	8	_____	_____
The following courses are also required:			
ED 605G Psychology of Exceptional Children	3	_____	_____
MATH 502G Topics in Math Education: Technology (Offered spring only)	3	_____	_____
ED 681G Research Study in Education	1	_____	_____

Students are required to be continuously enrolled in graduate-level or certification courses (as stated on the Individual Plan of Study) at Truman after they complete their internship until and including the semester in which their research and portfolio receive final approval. Final approval occurs during the semester when the completed and signed Report of the Examining Committee form and the Digital Portfolio Approval form have been received in the Graduate Office before the published deadlines for that semester. This enrollment includes spring, fall and the June summer session. Students may meet this requirement by repeatedly enrolling in ED 681G for 1 hour of credit.

Select nine hours from at least two of the following areas as indicated:

Analysis:			
MATH 515G Complex Variables I	3	_____	_____
MATH 561G Mathematical Analysis I	3	_____	_____
MATH 562G Mathematical Analysis II	3	_____	_____
MATH 605G Topics in Analysis	3	_____	_____
MATH 671G Real Variables I	3	_____	_____
MATH 672G Real Variable II	3	_____	_____
MATH 676G Complex Variables II	3	_____	_____
Algebra:			
MATH 564G Advanced Linear Algebra	3	_____	_____
MATH 603G Topics in Algebra	3	_____	_____
MATH 666G Abstract Algebra I	3	_____	_____
MATH 667G Abstract Algebra II	3	_____	_____
Geometry-Topology:			
MATH 604G Topics in Geometry	3	_____	_____
MATH 640G Topology I	3	_____	_____
MATH 641G Topology II	3	_____	_____
Applied Mathematics:			
MATH 511G Computer Mathematics	3	_____	_____
MATH 521G Partial Differential Equations	3	_____	_____
MATH 530G Topics in Mathematical Modeling	3	_____	_____
MATH 621G Theory of Ordinary Differential Equations	3	_____	_____
MATH 631G Advanced Topics in Mathematical Modeling	3	_____	_____
MATH 632G Principles of Applied Mathematics I	3	_____	_____
MATH 633G Principles of Applied Mathematics II	3	_____	_____
MATH 635G Advanced Numerical Analysis	3	_____	_____
Probability and Statistics:			
MATH 570G Mathematical Probability and Statistics I	3	_____	_____
MATH 571G Mathematical Probability and Statistics II	3	_____	_____
Special Topics:			
MATH 503G Topics in Mathematics	3	_____	_____

Minimum Hours Required for Degree: 35

MAE candidates are required to take the Subject Area Praxis Series Exam for their specific area of study prior to graduating from Truman. Each student must score at or above the median score on their respective Subject Area exam in order to be recommended for teacher certification and approved for graduation with the MAE Degree. The median score is a norm-referenced score that may vary slightly from year to year; however, students will be required to score at or above the median that is in effect according to ETS' records at the date the test was taken. If the test for a specific area of study changes and score reports are not produced at the time the test is given, the median score reported at the time the score report is produced will be required.

The Praxis is generally taken when the majority of course work has been completed or the semester when enrolled in MATH 608G, Management of Instruction.

The Praxis test required for the MAE program in Secondary Mathematics is *Mathematics: Content Knowledge*.