

**Secondary Mathematics**  
**Master of Arts in Teaching (MAT) Degree Requirements**  
**39 Graduate Credit Hours**

**PHASE I. Graduate Certificate in Teaching for Secondary Mathematics**  
 Effective Fall 2010

**Requirements (18 hours)**

*All courses in PHASE I and acceptance to the MAT program must be completed before beginning PHASE 2*

	Semester	Grade
<b>MDSK 6162:</b> Planning for K-12 Instruction (3)	_____	_____
<b>SECD 5140:</b> The Secondary School Experience (3)	_____	_____
<b>READ 5255:</b> Integrating Reading and Writing in the Content Areas (3)	_____	_____
<b>EDUC 5100:</b> Diverse Learners (3)	_____	_____
<b>MAED 5252:</b> Teaching Mathematics to Secondary School Learners (3)	_____	_____
<b><u>Final Course in this phase:</u></b>		
<b>MDSK 6470:</b> Graduate Student Teaching and Internship (formerly MDSK 6161) (3) *This final course is a full time internship requiring employment as a math teacher in an approved high school or a non-paid placement with a licensed math teacher in a public high school. It requires application and approval during the semester prior to the internship.	_____	_____
<b>Plus any deficiency courses in math required for Standard Professional 1 Licensure: See background requirements below.</b>		
<i>Praxis II Specialty Area exams passed-applies to lateral entry teachers _____ (date)</i>		
<i>Application for Standard Professional I license filed in TEAL Office _____ (date)</i>		

**PHASE 2: Completion of the MAT Degree**

**Requirements (21 hrs)**

**Prerequisites to begin this phase: Completion of Phase I and acceptance into the MAT**

<b>RSCH 6101:</b> Research Methods (3)	_____	_____
<b>MDSK 6220:</b> Adolescence and Learning (3)	_____	_____
<b>XXXX xxxx:</b> Six hours in approved graduate level content courses (6)	_____	_____
<b>MAED 5070:</b> Topics in Mathematics Education, Secondary (3)	_____	_____
<b><u>Final Courses in Phase II</u></b>		
<b>MDSK 6260:</b> Teacher Leadership (3)	_____	_____
<b>MDSK 6691:</b> Seminar in Professional Development (3)	_____	_____
<i>Application for candidacy filed with the Graduate School _____ (date)</i>		
<i>Application for graduation filed with the Graduate School _____ (date)</i>		
<i>Report of project/portfolio sent to the Graduate School _____ (date)</i>		
<i>Application for "M" license filed in TEAL Office _____ (date)</i>		

<b>Background Requirements</b> <b>8 Key Courses</b>			
Candidates should have at least a bachelor's degree with a major or equivalent (24 hours) in math and courses in the competency areas below. Candidates with a major in math may satisfy any background deficiencies through graduate courses or undergraduate courses in math. Candidates with degrees in other fields will build to the equivalent of an math major with undergraduate coursework. The GPA for background requirements must be at least a 2.5, and no courses may be presented for licensure with grades lower than a C.			
<b>Requirements (24 hours)</b>			
Content	Suggested Courses	Semester	Grade
Linear and Abstract Algebra	MATH 2164: Matrices and Linear Algebra		
Modern Algebra	MATH 3163: Introduction to Modern Algebra		
Number Concepts	MATH 2340: Number Concepts and Relationships		
Geometry	MATH 3181: Fundamental Concepts of Geometry OR MAED 4105: Geometry in the Secondary School Mathematics Curriculum		
Statistics	STAT 2122: Introduction to Probability and Statistics OR MATH/STAT 3122: Probability and Statistics I		
Discrete Mathematics	MATH 1102: Introduction to Mathematical Thinking OR MATH 1165: Introduction to Discrete Structures		
Calculus	MATH 1242: Calculus II		
Additional course to meet 24 hour requirement			

- Note-Some deficiency courses may have prerequisites—check course descriptions in the online catalog.