

**Master of Arts in Teaching:
Secondary Education
Mathematics**

Phase One (18 hours)

- MDSK 6162:** Planning for K-12 Teaching (3) (*Formerly CURR 6162*)
READ 5255: Integrating Reading and Writing in the Content Areas (3)
EDUC 5100: Diverse Learners (3)
SECD 5140: The Secondary School Experience (3)
MAED 5070: Teaching Mathematics to Secondary School Learners

Final course in this phase:

MDSK 6161: Analysis of K-12 Teaching (3) (*Formerly CURR 6161*)

This final course is a full time student teaching internship requiring employment as a secondary 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.

Plus any deficiency courses in the academic discipline required for Standard Professional I licensure: See background requirements below.

Praxis II Specialty Area exams passed – if applicable _____ (date)

Technology competencies completion form _____ (date)

Fast track completion form signed by advisor and filed with TEAL office _____ (date)

Application for Standard Professional I license filed in TEAL Office _____ (date)

Phase Two (21 hours)

Requirements to begin this phase: Completion of Phase One and full-time employment as a secondary math teacher

- RSCH 6101:** Educational Research Methods (3)
MATH xxxx: Graduate MATH Courses (9)
Required: MATH 6101, then any other MATH 6XXX courses, e.g., 6100, 6102, 6103, 6105-6107
MAED 5070: Topics in Mathematics Education: Secondary (or substitution by Math Ed. Coordinator)

Final courses in Phase Two:

- MDSK 6260:** Principles of Teacher Leadership (3)
MDSK 6691: Seminar in Professional Development (3)

Completion of 39 graduate hours to be applied to the degree _____

Application for candidacy filed with the Graduate School _____ (date)

Application for graduation filed with the Graduate School _____ (date)

Report of project/portfolio sent to the Graduate School _____ (date)

Application for “M” license filed in TEAL Office _____ (date)

Secondary Mathematics (9-12) Background Requirements

Candidates are expected to have at least a bachelor's degree with the equivalent of a major (24 hours) in mathematics and coursework which satisfies the competency requirements below. Candidates with degrees in other fields must build to the equivalent of a major in mathematics (24 hours) and present coursework for the competencies noted below. 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.

Competency Area	Course requirements and UNC Charlotte examples There must be at least one course in each cell unless otherwise noted	Candidate's courses	Grades	Plan for satisfying deficiencies*
Linear Algebra	<i>Algebra above the introductory level, e.g.,</i> MATH 2164: Matrices and Linear Algebra			
Abstract Algebra	<i>A course focused on abstract algebra, e.g.,</i> MATH 3163: Intro. To Modern Algebra			
Geometry (Euclidean or non-Euclidean)	<i>One upper division course in geometry, e.g.,</i> MATH 3181: Fund. Concepts of Geometry MATH 3105: Euclidean Geometry			
Calculus	<i>Calculus above the introductory level that covers series and sequences, e.g.,</i> MATH 1242: Calculus II			
Statistics	<i>Statistics above the introductory level, e.g.,</i> STAT 3122: Probability and Statistics I			
Logic (Axioms/Proofs)	<i>An upper division course emphasizing logic and proofs, e.g.,</i> MATH 3163: Intro. To Modern Algebra MATH 3181: Fund. Concepts of Geometry			

NOTE: Some courses on this list may have prerequisites.

NOTE: If you are building up to the equivalent of a major in math (24 hours), you may wish to take prerequisites for the required courses above, or you may take MATH or STAT electives.