

# MATHEMATICS/MIDDLE LEVEL ENDORSEMENT MAJOR, BACHELOR OF ARTS IN EDUCATION (BAE)

MTED 490B	SENIOR CAPSTONE: SECONDARY PRACTICUM	5
Total Credits		107

Completion of this major and the General Degree Completion Requirements for Education, Secondary (43 credits) satisfies the state requirements for a state mathematics teaching endorsement (middle level, grade levels 4-9.)

**Note:** Computer literacy proficiency is required. It can be demonstrated by the CPLA 100 and CPLA 101 tests, by CPLA 100 and CPLA 101 course credits or by CPLA 120 course credits.

**Note:** Effective 09/01/14, all candidates for certification must pass the NES subject matter test to receive an endorsement for certification purposes.

## Required Education Secondary Core

30-hour multicultural education field requirement		
EDUC 200 & EDUC 303 & EDUC 309	ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT (must be taken concurrently)	7
EDUC 201	INTRODUCTION TO EDUCATION	3
EDUC 341	SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT	4
EDUC 413	CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES	4
EDUC 420	ADMISSION TO PROFESSIONAL CANDIDACY	1
EDUC 426	SECONDARY STUDENT TEACHING 7-12	15
PSYC 304	EDUCATIONAL PSYCHOLOGY	5
SPED 363	INTRODUCTION TO SPECIAL EDUCATION	4

## Required Courses

EDUC 417	CULTURE OF MIDDLE SCHOOL	3
MATH 114	ALGEBRA CONCEPTS	5
MATH 211	MATHEMATICS FOR ELEMENTARY TEACHERS I	5
MATH 212	MATHEMATICS FOR ELEMENTARY TEACHERS II	5
MATH 311	FUNCTIONS AND RELATIONS FOR K-8 TEACHERS	5
MATH 312	GEOMETRY FOR THE K-8 TEACHER	5
MATH 411	DISCRETE MATHEMATICS FOR K-8 TEACHERS	4
MATH 413	DATA ANALYSIS AND PROBABILITY FOR MIDDLE LEVEL TEACHERS	3
MATH 416	CALCULUS FOR MIDDLE LEVEL TEACHERS	4
MATH 420	PROBLEM SOLVING FOR K-8 TEACHERS	4
MTED 290	EARLY MATH PRACTICUM	3
MTED 390	METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS	5
MTED 392	METHODS OF TEACHING SECONDARY MATH I	3
MTED 412	ADVANCED METHODS OF TEACHING K-8 MATHEMATICS	5

## Student Learning Outcomes—students will:

- demonstrate and apply in the classroom a profound understanding of fundamental mathematics;
- demonstrate and apply in the classroom a deep understanding of how students learn mathematics and of the pedagogical knowledge specific to mathematics teaching and learning;
- exhibit a productive disposition: value learning, value and respect student thinking, exhibit curiosity about students and mathematics, demonstrate perseverance, model effective learning, understand and value the role of discourse in promoting the learning of math.