

# MATHEMATICS/ELEMENTARY MAJOR, BACHELOR OF ARTS IN EDUCATION (BAE)

Completion of this major and the General Degree Completion Requirements for Education, Elementary, satisfies the state requirements for a generalist (multiple subject) Elementary Education teaching endorsement.

## Notes:

- computer literacy proficiency is required;
- it can be demonstrated by CPLA 100 and CPLA 101 test, by CPLA 100 and CPLA 101 course credits or by CPLA 120 course credits;
- this proficiency must be completed prior to enrollment in MATH 311 .

## Required Elementary Education Core

30-hour multicultural education field requirement		
ART 390	ART IN THE ELEMENTARY SCHOOL	3
EDUC 200 & EDUC 303 & EDUC 308	ADMISSION TO TEACHER EDUCATION and FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT (these courses must be taken concurrently)	7
EDUC 201	INTRODUCTION TO EDUCATION	3
EDUC 304	INTRODUCTION TO ELEMENTARY READING	3
EDUC 310	LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL	4
EDUC 338 & EDUC 339	LANGUAGE ARTS METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and SOCIAL STUDIES AND SCIENCE METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL (must be taken concurrently)	9
EDUC 420	ADMISSION TO PROFESSIONAL CANDIDACY	1
EDUC 423	ELEMENTARY STUDENT TEACHING K-8	15
MATH 212	MATHEMATICS FOR ELEMENTARY TEACHERS II	5
MTED 390	METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS	5
MUSC 450	INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES	3
PHED 390	HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS	3
PSYC 304	EDUCATIONAL PSYCHOLOGY	5
SPED 363	INTRODUCTION TO SPECIAL EDUCATION	4

## Required Mathematics Elementary Courses

Note: MATH 211 is a prerequisite for MATH 212. MATH 212 and MTED 390 are required courses in the Elementary Education Core and can only be counted once.

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 420	PROBLEM SOLVING FOR K-8 TEACHERS	4
MTED 390	METHODS OF TEACHING ELEMENTARY SCHOOL MATHEMATICS	5
MTED 412	ADVANCED METHODS OF TEACHING K-8 MATHEMATICS	5
MTED 490A	SENIOR CAPSTONE: ELEMENTARY PRACTICUM	5
Total Credits		108

For information on General Education, see Undergraduate Degree (<http://catalog.ewu.edu/archives/2016-2017/undergraduate-degree>) .

## Student Learning Outcomes—students will

Note: see Education program for additional SLOs related to certification requirements.

- demonstrate an understanding of and an ability to use the Mathematical Practices (CCSSM) and a a productive disposition as a student and teacher of mathematics;
- demonstrate and apply in the classroom a profound understanding of fundamental mathematics within the K–8 curriculum, of how these topics progress within the K–8 range, of how these topics extend and relate to the mathematics in the secondary curriculum, and of the fundamental concepts in the curriculum in the secondary curriculum and beyond;
- 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.