

# MATHEMATICS/ELEMENTARY MAJOR AND MIDDLE LEVEL ENDORSEMENT OPTION, 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.

**Prerequisite Grade Policy:** students must have earned a grade  $\geq$ C in any course that is to be used to satisfy a prerequisite requirement for a subsequent mathematics course offered by the Eastern Washington University Department of Mathematics.

**Grade Requirements:** students must receive a grade  $\geq$ C in each course used to satisfy the requirements of an undergraduate major or minor in mathematics.

Elementary Education students must complete the required Elementary Education Core and the following courses.

## Required Mathematics/Elementary Major and Middle Level Endorsement Option Courses

MATH 208	MATHEMATICS FOR ELEMENTARY TEACHERS I	5
MATH 209	MATHEMATICS FOR ELEMENTARY TEACHERS II	4
MATH 210	MATHEMATICS FOR ELEMENTARY TEACHERS III	4
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	4
MATH 416	CALCULUS FOR MIDDLE LEVEL TEACHERS	4
MATH 420	PROBLEM SOLVING FOR K-8 TEACHERS	4

## Required Mathematics Education Courses

MTED 290	EARLY MATH PRACTICUM	3
MTED 425	ASSESSMENT IN THE MATHEMATICS CLASSROOM	3
MTED 476	MATHEMATICAL PROGRESSIONS	3

## Required Senior Capstone

MTED 490A	SENIOR CAPSTONE: ELEMENTARY PRACTICUM	5
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**Total Credits** 53

Education (<http://catalog.ewu.edu/ps/se/>)

## Elementary Education Core

There are general education science and social science courses that are strongly recommended for the Elementary Education candidate. See the general requirements section of this catalog. Please see an Education advisor for clarification.

EDUC 304	INTRODUCTION TO ELEMENTARY READING	3
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EDUC 303 & EDUC 310 & EDUC 338 & EDUC 340 & EDUC 386A	FOUNDATIONS OF ASSESSMENT and LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL and LANGUAGE AND SOCIAL STUDIES METHODS 1: INTEGRATED LANGUAGE ARTS FOR ELEMENTARY SCHOOL and LANGUAGE AND SOCIAL STUDIES METHODS 2: INTEGRATED SOCIAL STUDIES FOR ELEMENTARY SCHOOL and FIELD EXPERIENCE AND PRACTICUM	18
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EDUC 308 & EDUC 380 & EDUC 381 & EDUC 386B	FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT and INTEGRATED STEM METHODS 1 and INTEGRATED STEM METHODS 2 and FIELD EXPERIENCE AND PRACTICUM	14
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EDUC 423	ELEMENTARY STUDENT TEACHING K-8	12
EDUC 427	GENERAL STUDENT TEACHING K-12 (Variable credit. A minimum of 3 credits are required.)	3-15

**Total Credits** 50-62

## University Competencies and Proficiencies

- English (<http://catalog.ewu.edu/undergraduate-degree/#newitemtext>)
- Quantitative and Symbolic Reasoning (<http://catalog.ewu.edu/undergraduate-degree/#mathcompproficienciestext>)
- Placement and Clearance (<http://catalog.ewu.edu/placement/>)
- Prior Learning/Sources of Credit AP, CLEP, IB (<http://catalog.ewu.edu/prior-learning/>)

## General Education Requirements (<http://catalog.ewu.edu/undergraduate-degree/#generaleducationrequirements>) (GER)

- Minimum Credits—180 cumulative credit hours
  - 60 upper-division credits (300 level or above)
  - 45 credits in residence (attendance) at Eastern, with at least 15 upper-division credits in major in residence at Eastern
- Minimum Cumulative GPA  $\geq$ 2.0

## Breadth Area Core Requirements (BACR)

- Humanities and Arts (<http://catalog.ewu.edu/undergraduate-degree/#humanitiesandfineartsgecrtext>)
- Natural Sciences (<http://catalog.ewu.edu/undergraduate-degree/#naturalsciencesgecrtext>)
- Social Sciences (<http://catalog.ewu.edu/undergraduate-degree/#socialsciencesgecrtext>)

## University Graduation Requirements (<http://catalog.ewu.edu/undergraduate-degree/#universitygraduationrequirements>) (UGR)

- Diversity Course List (<http://catalog.ewu.edu/undergraduate-degree/#cultureandgenderdiversityintheuslisttext>)
- Foreign Language (<http://catalog.ewu.edu/undergraduate-degree/#foreignlanguageugrtext>) (for Bachelor of Arts)
- Global Studies Course List (<http://catalog.ewu.edu/undergraduate-degree/#internationalstudiesrequirementtext>)
- Minor or Certificate (<http://catalog.ewu.edu/undergraduate-degree/#majorminororcertificateugrtext>)

Senior Capstone Course List (<http://catalog.ewu.edu/undergraduate-degree/#capstonecourselisttext>)

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Application for Graduation (use EagleNET (<https://inside.ewu.edu/eaglenet/>)) must be made at least two terms in advance of the term you expect to graduate (undergraduate and post-baccalaureate).

Use the Catalog Archives (<https://catalog.ewu.edu/archives/>) to determine two important catalog years (<http://catalog.ewu.edu/undergraduate-degree/#activecatalogruletext>).

Degree Works (<https://inside.ewu.edu/records-and-registration/degree-works/>) calculates based on these two catalog years.

- a. The catalog *in effect at the student's first term* of current matriculation is used to determine **BACR** (Breadth Area Credit Requirements) and **UGR** (Undergraduate Graduation Requirements).
- b. The catalog *in effect at the time the student declares a major or minor* is used to determine the program requirements.

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**Students who successfully earn a BAE in Mathematics/Elementary Major and Middle Level Endorsement from EWU should be able to do the following:**

- describe and demonstrate an ability to use the Mathematical Practices (CCSSM) and 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.