

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.

Prerequisite Grade Policy: students must have earned a grade \geq C or better 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 Courses | | |
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| 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 |
| or MATH 313 | PATTERNS, RELATIONS AND ALGEBRAIC THINKING FOR PRIMARY TEACHERS | |
| 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 |
| Required Mathematics Education Courses | | |
| MTED 425 | ASSESSMENT IN THE MATHEMATICS CLASSROOM | 3 |
| MTED 476 | MATHEMATICAL PROGRESSIONS | 3 |
| Required Capstone | | |
| MTED 490A | SENIOR CAPSTONE: ELEMENTARY PRACTICUM | 5 |
| Total Credits | | 42 |

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.

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| EDUC 304 | INTRODUCTION TO ELEMENTARY READING | 3 |
| 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 |
| 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/#mathcompproficiencytext>)
 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/#humanitiesandfineartsgecrtxt>)
 Natural Sciences (<http://catalog.ewu.edu/undergraduate-degree/#naturalsciencesgecrtxt>)
 Social Sciences (<http://catalog.ewu.edu/undergraduate-degree/#socialsciencesgecrtxt>)

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/#foreignlanguageugrtxt>) (for Bachelor of Arts)
 Global Studies Course List (<http://catalog.ewu.edu/undergraduate-degree/#internationalstudiesrequirementtext>)
 Minor or Certificate (<http://catalog.ewu.edu/undergraduate-degree/#majorminororcertificateugrtxt>)
 Senior Capstone Course List (<http://catalog.ewu.edu/undergraduate-degree/#capstonecourselisttext>)

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.

Students who successfully earn a BAE in Mathematics/Elementary from EWU should be able to do the following:

- demonstrate an understanding of and 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.