

# 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		
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 or MATH 313	FUNCTIONS AND RELATIONS FOR K-8 TEACHERS PATTERNS, RELATIONS AND ALGEBRAIC THINKING FOR PRIMARY 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
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
<b>Total Credits</b>		<b>42</b>

School of 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
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

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
<b>Total Credits</b>		<b>50-62</b>

## Plan of Study

The following plan of study is for a student with zero credits. Individual students may have different factors such as: credit through transfer work, Advanced Placement, Running Start, or any other type of college-level coursework that requires an individual plan.

Courses could be offered in different terms, checking the academic schedule is paramount in keeping an individual plan current. **Students should connect with an advisor to ensure they are on track to graduate.**

All Undergraduate students are required to meet the Undergraduate Degree Requirements (<http://catalog.ewu.edu/undergraduate-degree/>).

First Year					
Fall Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
ENGL 101	5	ENGL 201	5	EDUC 201	3
MATH 208	5	MATH 209	4	MATH 210	4
Humanities & Arts BACR 1 <sup>1</sup>	5	Humanities & Arts BACR 2 <sup>1</sup>	5	SPED 363	4
				Natural Science BACR 1 <sup>1</sup>	5
	15		14		16
Second Year					
Fall Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
ART 390	3	MATH 411	4	MATH 416	4
CMST 200, 201, or 340	4-5	PHED 390	3	MATH 420	4
MATH 311 or 313	5	PSYC 204	5	MUSC 450	3
MATH 312	5	Elective - certificate, minor, or general elective	4	Natural Science BACR 2 <sup>1</sup>	5
	17-18		16		16
Third Year					
Fall Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
MTED 476	3	EDUC 304	3	EDUC 308	3
Diversity - graduation requirement <sup>1</sup>	5	MTED 425	3	EDUC 310	4
Global Studies - graduation requirement <sup>1</sup>	5	Social Science BACR 1 <sup>1</sup>	5	EDUC 338	4
		Social Science BACR 2 <sup>1</sup>	5	EDUC 340	4
				EDUC 386A	3
	13		16		18
Fourth Year					
Fall Quarter	Credits	Winter Quarter	Credits	Spring Quarter	Credits
EDUC 303	3	EDUC 427	8	EDUC 423	12
EDUC 380	4	MTED 490A (Senior Capstone - graduation requirement)	5		
EDUC 381	4				
EDUC 386B	3				
	14		13		12
<b>Total Credits</b>	<b>180-181</b>				

<sup>1</sup> University Graduation Requirements (UGR) and Breadth Area Course Requirements (BACR) courses may be less than 5 credits and

additional credits may be required to reach the required 180 total credits needed to graduate. Students should connect with an advisor to ensure they are on track to graduate.

### 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/>)

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### General Education Requirements (<http://catalog.ewu.edu/undergraduate-degree/#generaleducationrequirementstext>) (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  $\geq 2.0$

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### 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>)

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

Diversity Course List (<http://catalog.ewu.edu/undergraduate-degree/#cultureandgenderdiversityintheuslisttext>)  
 World Language (<http://catalog.ewu.edu/undergraduate-degree/#worldlanguagetext>) (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>)

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 (<http://catalog.ewu.edu/archives/>) to determine *two important catalog years*.

Requirements in Degree Works (<https://inside.ewu.edu/records-and-registration/degree-works/>) are 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 earn a BAE in Mathematics/Elementary from EWU should be able to:

- 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.