MATHEMATICS EDUCATION - ELEMENTARY/MIDDLE LEVEL, BACHELOR OF ARTS IN EDUCATION (BAE)

Elementary Education Program Prerequisites		
All prerequisite courses must have been completed within the last 6 years.		
A grade ≥B- in all prerequisite courses is required for admission to the Education program.		
ART 390	ART IN THE ELEMENTARY SCHOOL	3
CMST 201	PUBLIC SPEAKING	5
or CMST 340	INTERCULTURAL COMMUNICATION	
EDUC 201	INTRODUCTION TO EDUCATION	3
ENGL 201	COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION	5
MATH 208	MATHEMATICS FOR ELEMENTARY TEACHERS I	5
MATH 209	MATHEMATICS FOR ELEMENTARY TEACHERS II	4
MATH 210	MATHEMATICS FOR ELEMENTARY TEACHERS III	4
MUSC 450	INTEGRATING MUSIC INTO ELEMENTARY CLASSROOM COURSES	3
PHED 390	HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOLS	3
PSYC 204	EDUCATIONAL PSYCHOLOGY	5
SOST 300	PEOPLES AND GOVERNANCE OF THE PACIFIC NORTHWEST	5
SPED 363	INTRODUCTION TO SPECIAL EDUCATION	4
Total Credits		**49**

Secondary Education Program Prerequisites		
All prerequisite courses must have been completed within the last 6 years.		
A grade ≥B- in all prerequisite courses is required for admission to the Education program.		
CMST 201	PUBLIC SPEAKING	5
or CMST 340	INTERCULTURAL COMMUNICATION	
EDUC 201	INTRODUCTION TO EDUCATION	3
ENGL 201	COLLEGE COMPOSITION: ANALYSIS, RESEARCH AND DOCUMENTATION (or approved equivalent)	5
SOST 300	PEOPLES AND GOVERNANCE OF THE PACIFIC NORTHWEST	5
SPED 363	INTRODUCTION TO SPECIAL EDUCATION	4
PSYC 204	EDUCATIONAL PSYCHOLOGY	5
Quantitative and Symbolic Reasoning proficiency*		5
Total Credits		**32**

* Quantitative and Symbolic Reasoning courses (http://catalog.ewu.edu/undergraduate-degree/#mathcompproficienciestext)

Prerequisite Grade Policy: students must have earned a grade ≥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 ≥C in each course used to satisfy the requirements of an undergraduate major or minor in mathematics.

Teaching Endorsements: Students seeking to be elementary education (all subjects, grades k-8) endorsed will take all major courses listed and also complete all elementary education program/course requirements.
OR
Students seeking to be middle level mathematics endorsed (grade 4-9, mathematics only) will take all major courses listed and also complete all secondary education program/course requirements.
OR
Students seeking to K-9 math endorsement (all subjects, grades k-8, and Math 4-9) will take all major courses listed and also complete all elementary education program/course requirements and pass the NES Middle Grades Mathematics Test.

Required Courses		
Students can choose either elementary education concentration (grades K-8, certified all subjects) if they want to be elementary education endorsed or the secondary education concentration if they want to be only endorsed in middle level mathematics (grades 4-9, math only). Students in this major must also complete the following courses along with either the elementary education concentration or the secondary education concentration 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 417	ADVANCED MATHEMATICS FOR MIDDLE SCHOOL TEACHERS	5
MATH 420	PROBLEM SOLVING FOR K-8 TEACHERS	4
Required Mathematics Education Courses		
MTED 477	MATHEMATICAL DISCUSSIONS	4
MTED 290	EARLY MATH PRACTICUM	3
MTED 400	MATHEMATICS STUDENT TEACHING	2
MTED 425	ASSESSMENT IN THE MATHEMATICS CLASSROOM	3
MTED 476	MATHEMATICAL PROGRESSIONS	4
Select Education Concentration		**33-62**
Elementary Education = 50-62 credits, Secondary Education = 33-45 credits		
Elementary Education Concentration		
EDUC 303	FOUNDATIONS OF ASSESSMENT	
EDUC 304	INTRODUCTION TO ELEMENTARY READING	
EDUC 308	FOUNDATIONS OF ELEMENTARY CLASSROOM MANAGEMENT	
EDUC 310	LITERACY METHODS, MANAGEMENT AND ASSESSMENT IN THE ELEMENTARY SCHOOL	
EDUC 338	LANGUAGE AND SOCIAL STUDIES METHODS 1: INTEGRATED LANGUAGE ARTS FOR ELEMENTARY SCHOOL	
EDUC 340	LANGUAGE AND SOCIAL STUDIES METHODS 2: INTEGRATED SOCIAL STUDIES FOR ELEMENTARY SCHOOL	
EDUC 380	INTEGRATED STEM METHODS 1	
EDUC 381	INTEGRATED STEM METHODS 2	
EDUC 386A	FIELD EXPERIENCE AND PRACTICUM	
EDUC 386B	FIELD EXPERIENCE AND PRACTICUM	
EDUC 423	ELEMENTARY STUDENT TEACHING K-8	
EDUC 427	GENERAL STUDENT TEACHING K-12	
Secondary Education Concentration		
EDUC 303	FOUNDATIONS OF ASSESSMENT	
EDUC 309	FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT	
EDUC 341	SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT	
EDUC 386A	FIELD EXPERIENCE AND PRACTICUM	
EDUC 386B	FIELD EXPERIENCE AND PRACTICUM	
EDUC 413	CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES	
EDUC 426	SECONDARY STUDENT TEACHING 5-12	
EDUC 427	GENERAL STUDENT TEACHING K-12	
Required Senior Capstone		
MTED 490A	SENIOR CAPSTONE: ELEMENTARY PRACTICUM	5
or MTED 490B	SENIOR CAPSTONE: SECONDARY PRACTICUM	
Total Credits		**90-119**

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/#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 ≥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/#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 expected to graduate (undergraduate and post-baccalaureate).

Use the Catalog Archives (http://catalog.ewu.edu/archives/) to determine *two important catalog years*.

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

Students who earn a BAE in Mathematics Education - Elementary/Middle Level from EWU should be able to:

- 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.

Review School of Education for additional Program Learning Outcomes related to certification requirements.