

# MATHEMATICS/MIDDLE LEVEL ENDORSEMENT MAJOR, BACHELOR OF ARTS IN EDUCATION (BAE)

Completion of this major and the General Degree Completion Requirements for Education, Secondary (43 credits) satisfies the state requirements for a state mathematics teaching endorsement (middle level, grade levels 4–9.)

Notes: all candidates for certification must pass the NES subject matter test to receive an endorsement for certification purposes.

**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.

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

Required Mathematics 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	3
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
MTED 478	MATHEMATICAL MODELING IN SCHOOLS	3
Required Senior Capstone		
MTED 490B	SENIOR CAPSTONE: SECONDARY PRACTICUM	5
Total Credits		55

Education (<http://catalog.ewu.edu/archives/2021-2022/ps/se/>)

## Secondary Education Core

30-hour multicultural education field requirement

EDUC 303 & EDUC 309 & EDUC 341 & EDUC 386A & EDUC 413	FOUNDATIONS OF ASSESSMENT and FOUNDATIONS OF SECONDARY CLASSROOM MANAGEMENT and SECONDARY STRATEGIES, MANAGEMENT, ASSESSMENT and FIELD EXPERIENCE AND PRACTICUM and CONTENT AREA LITERACY: MANAGEMENT AND ASSESSMENT FOR SECONDARY EDUCATION CANDIDATES	15
EDUC 386B & EDUC 427	FIELD EXPERIENCE AND PRACTICUM and GENERAL STUDENT TEACHING K-12 (These are variable credit courses. The minimum for each is 3 credits.)	6-15
EDUC 426	SECONDARY STUDENT TEACHING 7-12	12
Total Credits		33-42

## University Competencies and Proficiencies

- English (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#newitemtext>)
- Quantitative and Symbolic Reasoning (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#mathcompproficienciestext>)
- Placement and Clearance Exams (<http://catalog.ewu.edu/archives/2021-2022/placement/>)
- Prior Learning/Sources of Credit AP, CLEP, IB (<http://catalog.ewu.edu/archives/2021-2022/prior-learning/>)

## General Education Requirements (<http://catalog.ewu.edu/archives/2021-2022/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

## Breadth Area Core Requirements (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#generaleducationcorerequirementstext>) (BACR)

- Humanities and Arts (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#humanitiesandfineartstext>)
- Natural Sciences (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#naturalsciencesgectext>)
- Social Sciences (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#socialsciencesgectext>)

## University Graduation Requirements (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#universitygraduationrequirementstext>) (UGR)

- Diversity Course List (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#cultureandgenderdiversityintheulisttext>)
- Foreign Language (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#foreignlanguageugrtext>) (for Bachelor of Arts)
- Global Studies Course List (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#internationalstudiesrequirementtext>)
- Minor or Certificate (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#majorminororcertificateugrtext>)

Senior Capstone Course List (<http://catalog.ewu.edu/archives/2021-2022/undergraduate-degree/#capstonecourselisttext>)

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All admitted students must officially Declare a Major (<https://inside.ewu.edu/center-for-academic-advising-and-retention/academic-planning-tools/declare-your-major/>) by the time they reach 90 credits (junior standing).

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/archives/2021-2022/undergraduate-degree/#activecatalogrulettext>).

SOAR (<https://soar.ewu.edu/selfservice/general/home.html>) calculates based on these two catalog years.

1. 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).
2. 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/Middle Level Endorsement from EWU should be able to do the following:**

- demonstrate and apply in the classroom a profound understanding of fundamental mathematics;
- 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;
- exhibit a productive disposition: value learning, value and respect student thinking, exhibit curiosity about students and mathematics, demonstrate perseverance, model effective learning, understand and value the role of discourse in promoting the learning of math.