EAST CENTRAL UNIVERSITY
MATHEMATICS – TEACHER CERTIFICATION CONCENTRATION 0293
2026-27 Catalog Year

Requirements for Bachelor's Degrees
- 30 hours at ECU
- 60 hours at senior level college
- 40 hours upper level courses
- OSRHE computer proficiency requirement

I. General Education 40 hours
A maximum of 12 hours may be counted in both the major/related work and general education.

II. Major in Teacher Cert Mathematics 45-51 hours

A. Required Mathematics Core 22-28 hours
- MATH 1513 College Algebra*
- MATH 1223 Intro to Prob & Statistics
- MATH 1713 Trigonometry*
- MATH 2825 Calculus & Analytical Geometry I
- MATH 3025 Calculus & Analytical Geometry II
- MATH 3033 Calculus & Analytical Geometry III
- MATH 3713 Linear Algebra
- MATH 4923 Perspectives in Mathematics

B. Required for Teacher Certification Concentration 17 hours
- CPSMA 3913 Discrete Mathematics
- MATH 3093 Intro to Theorem Prob & Number Theory
- MATH 3213 College Geometry
- MATH 3263 Meth of Teaching Jr High Math
- MATH 3813 Modern Algebra
- MATH 4922 Meth of Teaching Secondary Math

C. Electives 6 hours
- Six hours of upper level Mathematics courses

III. Related Work 12 hours
- CMPSC 1113 Computer Programming I OR
- Other computer programming course in a high level language
- COMM 1133 Fundamentals of Human Comm
- PSYCH 1113 General Psychology

IV. Minor (Not Required)

V. Professional Education 30 hours
- EDUC 2402 Survey of Excep Child
- PSYCH 3463 Child & Adolescent Psychology
- EDUC 2012 Diversity in American Education
- EDUC 2211 Field Experience I
- EDUC 2631 Foundations of Education Technology
- EDPSY 3513 Educational Psychology
- EDUC 3001 Field Experience II
- EDUC 4052 Effective Teaching in Secondary Education
- EDUC 4632 Education Technology Integration Strategies
- EDUC 4611 Field Experience III
- EDUC 4262 Student Teaching Seminar I
- EDUC 4282 Student Teaching Seminar II
- EDUC 4974 Supervised Student Teaching Secondary Schools
- EDUC 4974 Supervised Student Teaching Secondary Schools

VI. Electives 7-13 hours

VII. Total Hours Required 120 hours

VIII. Special Requirements
Math 1413 will not be counted in the major

*With departmental approval, students may omit MATH 1513 and MATH 1713 and begin with MATH 2825