

EAST CENTRAL UNIVERSITY
MATHEMATICS – GENERAL CONCENTRATION 0292
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 General Mathematics 46-52 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 General Mathematics Concentration 12 hours

- MATH 3093 Intro to Theorem Prob & Number Theory
- MATH 3813 Modern Algebra
- MATH 4113 Differential Equations
- MATH 4133 Real Analysis

C. Electives 12 hours

- Twelve hours in upper level Mathematics courses

III. Related Work 3 hours

- CMPSC 1113 Computer Programming I OR
- Other computer programming course in a high level language

IV. Minor (Not Required)

V. Electives 34-37 hours

VI. Total Hours Required 120 hours

VII. Special Requirements

Teachers or methods courses do not count in the major.

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