EAST CENTRAL UNIVERSITY
MATHEMATICS – GENERAL CONCENTRATION 0292
2025-26 Catalog Year

Requirements for Bachelor's Degrees
- o 30 hours at ECU
- o 60 hours at senior level college
- o 40 hours upper level courses
- o 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
- o MATH 1513   College Algebra*
- o MATH 1223   Intro to Prob & Statistics
- o MATH 1713   Trigonometry*
- o MATH 2825   Calculus & Analytical Geometry I
- o MATH 3025   Calculus & Analytical Geometry II
- o MATH 3033   Calculus & Analytical Geometry III
- o MATH 3713   Linear Algebra
- o MATH 4923   Perspectives in Mathematics

B. Required for General Mathematics Concentration   12 hours
- o MATH 3093   Intro to Theorem Prob & Number Theory
- o MATH 3813   Modern Algebra
- o MATH 4113   Differential Equations
- o MATH 4133   Real Analysis

C. Electives   12 hours
- o Twelve hours in upper level Mathematics courses

III.   Related Work   3 hours
- o CMPSC 1113   Computer Programming I OR
- o 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