Program: Mathematics Education  
Major: Mathematics Education  
Degree: Bachelor of Science in Education (B.S.Ed.)  
Dept: Mathematics and Statistics  
College: Mathematics and Science  
Major Code: 6180

University Core (Total Listed 42-44)

Specific courses within the University Core are listed on pages 95-96.  
• Courses from the major may apply to the areas marked in the University Core.  
• Written and Oral Communication .............................................. 9

Quantitative Reasoning/Scientific Method .............................................. 10-11
• Math ........................................................................ 3
• Life Science .................................................................. 4
• Physical Science .................................................................. 3-4

Critical Inquiry and Aesthetic Analysis ............................................... 6
Aesthetic Analysis .................................................................... 3
Critical Inquiry ........................................................................... 3

Minimum Required Hours

Support and Prerequisite Courses

Support Courses ............................................................................. 9
MCOM 1113 Fundamentals of Speech
ENG 1113 English Composition
ENG 1213 English Composition and Research

Prerequisite Courses ............................................................... 0-6
*MATH 1533 Precalculus-Algebra OR  
MATH 1513 College Algebra OR Placement Score AND  
*MATH 1593 Plane Trigonometry OR Placement Score

*A grade of ‘C’ or better is required for either MATH 1513 or MATH 1533 and MATH 1593 to take MATH 2313.

Major Requirements

Mathematics Education .............................................................. 41-42

Required courses .......................................................................... 36
MATH 2123 Survey of Discrete for Math Education
MATH 2313 Calculus 1
MATH 2323 Calculus 2
MATH 2333 Calculus 3
MATH 2343 Calculus 4
MATH 2743 Technology and Mathematics Education
MATH 3113 Foundations of Advanced Mathematics
MATH 3123 College Geometry
MATH 3143 Linear Algebra
MATH 3163 Elementary Number Theory OR  
MATH 3183 Introduction to Modern Algebra
MATH 4483 History of Mathematics
STAT 2113 Statistical Methods

Mathematics Electives ............................................................... 5-6
Select at least two of the following:
MATH 2023 Foundations of Geometry and Measurement
MATH 3103 Differential Equations
MATH 3163 Elementary Number Theory
MATH 3183 Introduction to Modern Algebra
MATH 4143 Introduction to Analysis 1
MATH 4960 Institute in Mathematics (2 hours)
STAT 4113 Mathematical Statistics 1

Electives to bring total to ....................................................... 124

It is strongly recommended PHY 1114 General Physics I and Lab be taken in the general education core. Students planning to do graduate work should take MATH 3183, Introduction to Modern Algebra and MATH 4143, Introduction to Analysis 1.

Minimum Graduation Requirements

1. Overall GPA in all college course work ................................. 2.50
2. Average in course work at UCO ........................................ 2.00
3. Courses in English Composition, Fundamentals of Speech, Professional Education, and area of specialization (major) .......... “C”
4. Proficiency in foreign language ........................................ Novice 4 level

For other regulations pertaining to graduation, see pages 66-67 of the 2019-2020 catalog.