Program: Mathematics  
Major: Mathematics - Statistics  
Degree: Bachelor of Science (B.S.)

Dept: Mathematics and Statistics  
College: Mathematics and Science  
Major Code: 6162

**University Core (Total Listed 42-44)**

Specific courses within the University Core are listed on pages 96-97.
- 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

**Prerequisite Courses**

**Prerequisite Courses** ................................................................. 0-6

MATH 1533 Algebra for STEM OR Placement Score AND
MATH 1593 Plane Trigonometry OR Placement Score

Upon completion of the above courses, corresponding general education requirements will be satisfied. (These courses are required for this major regardless of previous degrees conferred.)

**Major Requirements**

**Mathematics - Statistics** ............................................................. 54

The following courses ................................................................. 30

**Required** .................................................................................. 27
- MATH 2313 Calculus 1
- MATH 2323 Calculus 2
- MATH 2333 Calculus 3
- MATH 2343 Calculus 4
- MATH 2753 Technology for Professional Math and Statistics
- MATH 3103 Differential Equations
- MATH 3113 Foundations of Advanced Math
- MATH 3143 Linear Algebra
- MATH 3183 Introduction to Modern Algebra

**Electives** .......................................................................................... 3
Selected from 3000 and 4000 level MATH courses.

**Statistics** .................................................................................. 24

**Required Courses:**
- STAT 2113 Statistical Methods
- STAT 403 Applied Experimental Design
- STAT 4113 Mathematical Statistics 1
- STAT 4123 Mathematical Statistics 2
- STAT 4213 Applied Regression Analysis
- STAT 4253 Computer Applications in Statistics
- STAT 4313 Nonparametric Statistics
- STAT 4513 Statistical Consulting

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

**Minimum Grade Requirements**

1. Average in (a) all college course work, (b) course work at UCO, and (c) major courses .................................................. 2.50

2. A minimum grade of “C” must be earned in all courses in the major to count toward meeting degree requirements.

**Minimum Grade Requirements**

- American Historical and Political Analysis .............................. 6
- American National Government ......................................... 3
- American History ............................................................. 3
- Cultural and Language Analysis ........................................ 3-4
- Sd Language ........................................................................ 4
- Cultural Analysis ............................................................. 3
- Social and Behavioral Analysis .......................................... 3
- Life Skills ............................................................................. 5

- Required Health Course .................................................. 2
- Elective Life Skills .......................................................... 3

For other regulations pertaining to graduation, see pages 67-68 of the 2017-2018 catalog.