Mathematics Program: Dept: Mathematics and Statistics **Mathematics** Major: College: Mathematics and Science

Bachelor of Science (B.S.) Degree: Major Code: 6160

University Core (Total Listed 42-44)

 Courses from the major may apply to the areas marked in the University Core. 		
Written and Oral Communication9	Cultura	
Quantitative Reasoning/Scientific Method10-11	Secon	
• Math	O]	
Life Science4	Cultu	
Physical Science	Social a	
Critical Inquiry and Aesthetic Analysis	Life Sk	
Aesthetic Analysis	Requi	
Critical Inquiry	Electi	
NO. 1		

American Historical and Political Analysis
American National Government
American History
Cultural and Language Analysis3-4
Second Language
Cultural Analysis
Social and Behavioral Analysis
Life Skills5
Required Health Course
Elective Life Skills

Minimum **Required Hours**

Prerequisite Courses

Prerequisite Courses0-6 Algebra for STEM OR Placement Score AND MATH 1533

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		47		
Required30				
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	3113	Foundations of Advanced Math		
MATH	3143	Linear Algebra		
MATH	3183	Introduction to Modern Algebra		
MATH	4143	Introduction to Analysis 1		
STAT	4113	Mathematical Statistics 1		
Electives				
At least nine (9) hours must be selected from the following:				
MATH	3103	Differential Equations		
MATH	3163	Elementary Number Theory		
MATH	4153	Introduction to Analysis 2		
MATH	4483	History of Mathematics		
STAT	4123	Mathematical Statistics 2		
All other elective courses must be selected from 3000 and 4000 level MATH courses (including those MATH courses listed above).				

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

It is strongly recommended that PHY 1114 General Physics I and Lab be taken in the general education core.

Minimum Grade Requirements

- 1. Average in (a) all college course work, (b) course work at UCO, and (c) major courses2.50
- 2. A minimum grade of "C" must be earned in all courses in the major to count toward meeting degree requirements.

For other regulations pertaining to graduation, see pages 68-69 of the 2018-2019 catalog.