USAO

Bachelor of Science in Mathematics -- University of Science and Arts of Oklahoma

USAO

Interdisciplinary Studies (IDS) (46-48 hours)

		Hours	Trimester
IDS 1013	Rhetoric and Critical Thinking	3	
IDS 1133	The Individual in Contemporary Society	3	
IDS 1113	Writing I	3	
IDS 1213	Writing II	3	
IDS 1223	Mathematics in the Modern World	3	
Artistic Expression -- 2 hours			
Physical Expression -- 2 hours			
PHED 1011	Concepts of Health and Fitness	1	
IDS 2013	Foundations of Physical Science	3	
IDS 2023	Foundations of Life Science	3	
IDS 2011	Foundations of Science Lab	1	
IDS 2133	American Civilization I	3	
IDS 2143	American Civilization II	3	
IDS 3223	Political and Economic Systems and Theories	3	
IDS 3313	World Thought and Culture I	3	
IDS 3323	World Thought and Culture II	3	
IDS 4333	World Thought and Culture III	3	
IDS 4522 or	Senior Seminar or	2	
IDS 4552	Research Project II (prerequisite: IDS 4462)	2	

Mathematics Major (36 hours)

30 hours in Mathematics, 3 hours in Physics, 3 hours in Computer Science

Mathematics Prerequisite Courses		Hours	Trimester
MATH 1513	College Algebra	3	
MATH 1613	Trigonometry	3	
Mathematics Required Courses -- 18 hours			
MATH 1743	Calculus & Analytic Geometry I	3	
MATH 2223	Calculus & Analytic Geometry II	3	
MATH 2243	Calculus & Analytic Geometry III	3	
MATH 3263	Calculus & Analytic Geometry IV	3	
MATH 3253	Foundations of Mathematics	3	
MATH 3323	Modern Algebra I	3	
Mathematics Elective Courses -- 12 hours			
MATH 3233	Linear Algebra	3	
MATH 3313	Advanced Euclidean Geometry	3	
MATH 3333	Modern Algebra II	3	
MATH 3353	Differential Equations	3	
MATH 3363	Advanced Calculus I	3	
MATH 3373	Advanced Calculus II	3	
MATH 4303	Probability and Statistics I	3	
MATH 4403	Probability and Statistics II	3	
MATH 4413	Numerical Analysis	3	
MATH 4423	Complex Variable Theory	3	
Physics Required Course -- 3 - 4 hours			
PHYS 2113 or	General Physics I or	3	
PHYS 2214	General Physics I with Calculus	4	
Computer Science Required Course -- 3 hours			
CSCI 1143	Introduction to Computing	3	

Additional Required Courses		Hours	Trimester
NSCI 2710 or	STEM Communication or	0	
NSCI 2711	STEM Communication	1	
NSCI 3710 or	Next Step Preparation or	0	
NSCI 3711	Next Step Preparation	1	

Elective Courses -- 42 hours

A minimum of 124 hours is required

A minimum of 40 hours of upper division work is required

The mathematics major exit exam is required

Degree requirements effective July 2017

USAO