## **Bachelor of Science in Physics -- University of Science and Arts of Oklahoma**

Interdisciplinary Studies (IDS) (44 hours)		Hours	Trimester			Hours	Trimester
IDS 1003	First Year Seminar	3		IDS 2013	Foundations of Physical Science	3	
IDS 1133	The Individual in Contemporary Society	3		IDS 2023	Foundations of Life Science	3	
IDS 1113	Introduction to College Writing	3		IDS 2011	Foundations of Science Lab	1	
IDS 1213	Writing about Literature	3		IDS 2133	American Civilization I	3	
IDS 1223	Mathematics in the Modern World	3		IDS 2143	American Civilization II	3	
Artistic Expression 2 hours				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	
Physical Expression 2 hours				IDS 4333	World Thought and Culture III	3	
PHED 1011	Concepts of Health and Fitness	1					

## **Physics Major (57 hours)**

28 hours in Physics, 18 hours in Mathematics, 8 hours in Chemistry, 3 hours in Computer Science

Physics Required Courses 28 hours		Hours	Trimester	Chemistry Required Courses 8 hours		Hours	Trimester
PHYS 1301	General Physics I Lab	1		CHEM 1111	General Chemistry I Lab	1	
PHYS 2113 or	General Physics I or	3		CHEM 1113	General Chemistry I	3	
PHYS 2214	General Physics I with Calculus	4		CHEM 1121	General Chemistry II Lab	1	
PHYS 1401	General Physics II Lab	1	<del></del>	CHEM 1123	General Chemistry II	3	
PHYS 2123 or	General Physics II or	3		Additional R	equired Courses		
PHYS 2224	General Physics II with Calculus	4	<del></del>	NSCI 1710 or	Success in STEM or	0	
PHYS 2513	Modern Physics	3		NSCI 1711	Success in STEM	1	
PHYS 3013	Math. and Comp. Methods in Physical Science	3	<del></del>	NSCI 2710 or	STEM Communication or	0	
PHYS 3113	Physical Mechanics	3		NSCI 2711	STEM Communication	1	
PHYS 3213	Electricity and Magnetism - Field Theory	3		NSCI 3710 or	Next Step Preparation or	0	
PHYS 4003	Quantum Mechanics	3		NSCI 3711	Next Step Preparation	1	
PHYS 4102	Advanced Laboratory	2		Elective Cou	rses 21 hours		
PHYS 4113	Wave Motion and Physical Optics	3					
Mathematics Prerequisite Courses							
MATH 1513	College Algebra	3					
MATH 1613	Trigonometry	3					
	s 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 3233	Linear Algebra	3					
MATH 3353	Differential Equations	3					
Computer Science Required Course 3 hours							
CSCI 1143	Introduction to Computing	3					

A minimum of 122 hours is required
A minimum of 40 hours of upper division work is required

The physics major exit exam is required Degree requirements effective July 2023

