



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



## 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	_____
_____	_____	_____

## 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
PHYS 1301 General Physics I Lab	1	_____
PHYS 2113 or General Physics I or	3	_____
PHYS 2214 General Physics I with Calculus	4	_____
PHYS 1401 General Physics II Lab	1	_____
PHYS 2123 or General Physics II or	3	_____
PHYS 2224 General Physics II with Calculus	4	_____
PHYS 2513 Modern Physics	3	_____
PHYS 3013 Math. and Comp. Methods in Physics	3	_____
PHYS 3113 Physical Mechanics	3	_____
PHYS 3213 Electricity and Magnetism - Field Theory	3	_____
PHYS 4003 Quantum Mechanics	3	_____
PHYS 4102 Advanced Laboratory	2	_____
PHYS 4113 Wave Motion and Physical Optics	3	_____

#### Mathematics Prerequisite Courses

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 3233 Linear Algebra	3	_____
MATH 3353 Differential Equations	3	_____

#### Computer Science Required Course -- 3 hours

CSCI 1143 Introduction to Computing	3	_____
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A minimum of 124 hours is required

A minimum of 40 hours of upper division work is required

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)	4	_____

#### Chemistry Required Courses -- 8 hours

	Hours	Trimester
CHEM 1111 General Chemistry I Lab	1	_____
CHEM 1113 General Chemistry I	3	_____
CHEM 1121 General Chemistry II Lab	1	_____
CHEM 1123 General Chemistry II	3	_____

#### Additional Required Courses

NSCI 1710 or Success in STEM or	0	_____
NSCI 1711 Success in STEM	1	_____
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 -- 21 hours

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_____	_____	_____
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_____	_____	_____

The physics major exit exam is required

Degree requirements effective July 2020

