2017 - 2018 Old Dominion University Catalog **Bachelor of Science in Physics** (Concentration B - Professional) (w/ VCCS Equivalencies)

Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed. * indicates not automatically waived with transferrable associates degree, C or better required for transfer. Courses in green are waived by the completion of an Associate degree (Not eligible for Applied Associate degrees).

YEAR 1 - FRESHMAN (33 CREDITS)

FALL SEMESTER (17 credits)

SPRING SEMESTER (16 credits)

General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
MATH 211 (4 credits)	MTH 173, 263 or 273*	ENGL 211C or 231C	ENG 112, 210, 115 or 131*
ENGL 110C	ENG 111*	Human Creativity	Transfer Guide
Language and Culture I (May be waived, see catalog for details)	Transfer Guide	Language and Culture II (May be waived, see catalog for details)	Transfer Guide
CS 150 (4 credits)	CSC 201 or EGR 126*	MATH 212 (4 credits)	MTH 174, 264, or 274*
Oral Communication	Transfer Guide	Human Behavior	Transfer Guide

YEAR 2 - SOPHOMORE (31 CREDITS)

FALL SEMESTER (17 credits)

SPRING SEMESTER (14 credits)

General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
CHEM 121N and 122N (4 credits)	CHM 111*	CHEM 123N and 124N (4 credits)	CHM 112*
Literature	Transfer Guide	Interpreting the Past	Transfer Guide
Philosophy and Ethics	Transfer Guide	PHYS 262N (4 credits)	See note below*
PHYS 261N (4 credits)	See note below*	Impact of Technology	Transfer Guide
Information Literacy and Research: CS 120G or CS 121G	Transfer Guide		

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (16 credits)

SPRING SEMESTER (15 credits)

Major Coursework:	VCCS Equivalency:	Major Coursework:	VCCS Equivalency:	
MATH 312 or 285 (4 credits)	MTH 265 or 277*	MATH 316, 401, 421 or 422		
MATH 307 or 280	MTH 267 or 279*	PHYS 355		
PHYS 303		PHYS 413		
PHYS 319		PHYS 454		
PHYS 323		PHYS 452		
YEAR 4 - SENIOR (25 CREDITS)				

FALL SEMESTER (13 credits)

SPRING SEMESTER (12 credits)

General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
---	-------------------	---	-------------------

Select two of the following: PHYS 311, 313, 332, PHYS 425 411, 415, 416 or 417** (6credits)

PHYS 420, 453, or 456 Elective***

PHYS 499W or 489W & 490W (C or better required) Upper Division Gen. Ed. Coursework: PHYS 120 or 309 300-/400-level course (Option D)

Upper Division Gen. Ed. Coursework: 300-/400-level course (Option D)

Language and Culture may be waived, see ODU catalog for exemptions.

Note: Upper division general education (minor) has other options, see catalog for requirements.

Concentration B (Professional) is designed for students who wish to create a specialized program of study which combines a strong foundation in physics with strong preparation in another field. Such other fields include engineering, medicine, computer science, business, and communications, to name a few.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, a grade of C or better in all courses required for the major, including prerequisite courses, 120 credit hours, which must include both a minimum of 30 credit hours overall and 12 credit hours in upper-level courses in the major program from Old Dominion University, completion of ENGL 110C, ENGL 211C or 221C or 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.

Note: PHYS 261N and 262N have no VCCS equivalency. However, if you must take Physics courses for the AS degree, you should take PHY 221, 231 or 241 and PHY 222, 232 or 242 These courses transfer as PHYS 231N and PHYS 232N The Department will assess student's proficiency and substitute for PHYS 261N and 262N if elioible

^{**}With at least three credits at the 400-level.

^{***}Please consult with your ODU advisor for elective coursework.