

2014 - 2015 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.*

YEAR 1 - FRESHMAN (33 CREDITS)

FALL SEMESTER (17 credits)

SPRING SEMESTER (16 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
MATH 211 (4 credits)	MTH 173 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)	Transfer Guide*	MATH 212 (4 credits)	MTH 174 or 274*
Oral Communication	Transfer Guide	Human Behavior	Transfer Guide

YEAR 2 - SOPHOMORE (28 CREDITS)

FALL SEMESTER (14 credits)

SPRING SEMESTER (14 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
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 232N (4 credits)	PHY 222, 232 or 242*
PHYS 231 (4 credits)	PHY 221, 231 or 241*	Impact of Technology	Transfer Guide

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (16 credits)

SPRING SEMESTER (15 credits)

<u>Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>Major Coursework:</u>	<u>VCCS Equivalency:</u>
MATH 312 or 285 (4 credits)		MATH 316, 401, 421 or 422	
MATH 307 or 280		PHYS 355	
PHYS 303		PHYS 413	
PHYS 319		PHYS 454	
PHYS 323		Elective	

YEAR 4 - SENIOR (28 CREDITS)

FALL SEMESTER (13 credits)

SPRING SEMESTER (15 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
PHYS 425		PHYS 420, 453 or 456	
PHYS 452		Elective	
PHYS 499W or 489W & 490W (C or better required)		Select two of the following (3 credits must be at the 400-level): PHYS 311, 313, 332, 350, 411, 415, 416 or 417 (6 credits)	
PHYS 120 or 309 (1 credit)			
<u>Upper Division Gen. Ed. Coursework:</u>		<u>Upper Division Gen. Ed. Coursework:</u>	
300-/400-level course (Option D)		300-/400-level course (Option D)	

Please consult with your ODU advisor for elective coursework.

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.