

2018 - 2019 Old Dominion University Catalog

Bachelor of Science in Physics

Concentration B - Professional

Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed. Consult with Advisor.

YEAR 1 - FRESHMAN (33 CREDITS)

FALL SEMESTER (17 credits)

General Education and Major Coursework:

MATH 211	4
ENGL 110C	3
Language and Culture I (May be waived, see catalog)	3
CS 150	4
Oral Communication	3

SPRING SEMESTER (16 credits)

General Education and Major Coursework:

ENGL 211C or 231C	3
Human Creativity	3
Language and Culture II (May be waived, see catalog)	3
MATH 212	4
Human Behavior	3

YEAR 2 - SOPHOMORE (31 CREDITS)

FALL SEMESTER (17 credits)

General Education and Major Coursework:

CHEM 121N/122N*	4
Literature	3
Philosophy and Ethics	3
PHYS 261N	4
Information Literacy and Research: CS 120G or CS 121G	3

SPRING SEMESTER (14 credits)

General Education and Major Coursework:

CHEM 123N/124N*	4
Interpreting the Past	3
PHYS 262N	4
Impact of Technology	3

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (16 credits)

Major Coursework:

MATH 312 or 285	4
MATH 307 or 280	3
PHYS 303	3
PHYS 319	3
PHYS 323	3

SPRING SEMESTER (15 credits)

Major Coursework:

MATH 316, 401, 421 or 422	3
PHYS 355	3
PHYS 413	3
PHYS 454	3
PHYS 452	3

YEAR 4 - SENIOR (25 CREDITS)

FALL SEMESTER (13 credits)

General Education and Major Coursework:

PHYS 425	3
PHYS 420, 453, or 456	3
PHYS 499W or 489W & 490W (C or better required)	3
PHYS 120 or 309	1
<u>Upper Division Gen. Ed. Coursework:</u>	
300-/400-level course (Option D)	3

SPRING SEMESTER (12 credits)

General Education and Major Coursework:

Select two of the following: PHYS 313, 411, 415, 416 or 417**	6
Elective***	3
<u>Upper Division Gen. Ed. Coursework:</u>	
300-/400-level course (Option D)	3

*CHEM 137N/CHEM 138N may be taken instead of CHEM 121N/CHEM 122N and CHEM 123N/124N.

**With at least three credits at the 400-level.

***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.