

2015 - 2016 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)

General Education and Major Coursework:

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

VCCS Equivalency:

MTH 173 or 273*
 ENG 111*
[Transfer Guide](#)
 CSC 201, EGR 126 or ITP 100*
[Transfer Guide](#)

General Education and Major Coursework:

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

VCCS Equivalency:

ENG 112, 210, 115 or 131*
[Transfer Guide](#)
[Transfer Guide](#)
 MTH 174 or 274*
[Transfer Guide](#)

YEAR 2 - SOPHOMORE (31 CREDITS)

FALL SEMESTER (17 credits)

SPRING SEMESTER (14 credits)

General Education and Major Coursework:

CHEM 121N and 122N (4 credits)
 Literature
 Philosophy and Ethics
 PHYS 231N (4 credits)
 Information Literacy and Research: CS 120G or CS 121G

VCCS Equivalency:

CHM 111*
[Transfer Guide](#)
[Transfer Guide](#)
 PHY 221, 231 or 241*
[Transfer Guide](#)

General Education and Major Coursework:

CHEM 123N and 124N (4 credits)
 Interpreting the Past
 PHYS 232N (4 credits)
 Impact of Technology

VCCS Equivalency:

CHM 112*
[Transfer Guide](#)
 PHY 222, 232 or 242*
[Transfer Guide](#)

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (16 credits)

SPRING SEMESTER (15 credits)

Major Coursework:

MATH 312 or 285 (4 credits)
 MATH 307 or 280
 PHYS 303
 PHYS 319
 PHYS 323

VCCS Equivalency:

MTH 277*
 MTH 279*

Major Coursework:

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

VCCS Equivalency:

YEAR 4 - SENIOR (25 CREDITS)

FALL SEMESTER (13 credits)

SPRING SEMESTER (12 credits)

General Education and Major Coursework:

PHYS 425
 PHYS 420, 453, or 456
 PHYS 499W or 489W & 490W (C or better required)
 PHYS 120 or 309

VCCS Equivalency:

General Education and Major Coursework:

Select two of the following: PHYS 311, 313, 332, 411, 415, 416 or 417** (6credits)
 Elective***
Upper Division Gen. Ed. Coursework:
 300-/400-level course (Option D)

VCCS Equivalency:

Upper Division Gen. Ed. Coursework:

300-/400-level course (Option D)

**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.

