

2014 - 2015 Old Dominion University Catalog

Bachelor of Science in Physics

(Concentration C: Teacher Education Licensure)

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

YEAR 1 - FRESHMAN (33 CREDITS)

FALL SEMESTER (17 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

SPRING SEMESTER (16 credits)

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

YEAR 2 - SOPHOMORE (28 CREDITS)

FALL SEMESTER (15 credits)

General Education and Major Coursework:

CHEM 121N and 122N (4 credits)
 Literature
 Philosophy and Ethics
 PHYS 231 (4 credits)
Professional Education Coursework:
 STEM 101 (1 credit)

SPRING SEMESTER (13 credits)

General Education and Major Coursework:

CHEM 123N and 124N (4 credits)
 Interpreting the Past
 PHYS 232N (4 credits)
Professional Education Coursework:
 STEM 102 (1 credit)

YEAR 3 - JUNIOR (30 CREDITS)

FALL SEMESTER (15 credits)

Major Coursework:

MATH 307 or 280
 PHYS 303
 PHYS 319
 PHYS 323
Professional Education Coursework:
 STEM 201

SPRING SEMESTER (15 credits)

Major Coursework:

PHYS 355
 PHYS 413
 PHYS 103N
Professional Education Coursework:
 STEM 202
 STEM 401

YEAR 4 - SENIOR (29 CREDITS)

FALL SEMESTER (14 credits)

General Education and Major Coursework:

PHYS 425
 PHYS 499W or 489W & 490W
 PHYS 120 or 309 (1 credit)
 Elective (4 credits)
Professional Education Coursework:
 SCI 468

SPRING SEMESTER (15 credits)

Professional Education Coursework:

STEM 485
 STEM 402
 Elective

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

The Professional Education satisfies the upper division general education requirement.

Concentration C (Education) is designed for students who are preparing to be high school physics teachers. This curriculum provides a solid foundation in both contemporary physics and in education pedagogy.

Students must first declare the physics (Track C) teacher preparation track as their major with the physics departmental advisor. All students must apply for and be admitted into the approved physics teacher preparation program. Students must meet the required criteria for admission by passing the Virginia Board of Education prescribed assessments and earn the minimum required grade point averages (GPA). Please see catalog for details.

Requirements for graduation include completion of ENGL 110C, ENGL 211C or 221C or 231C, and the writing intensive (W) course in the major with a grade of C or better, completion of the Senior Assessment, completion of the Physics Exit Exam with a minimum score of 20thpercentile, a minimum cumulative 2.75 GPA, in the major area, and in the professional education core, with no grade less than a C- in the major and the professional education core; successful completion of the Teacher Candidate Internship and a minimum of 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.