

2019 - 2020 Old Dominion University Catalog

Bachelor of Science in Physics

Concentration C: Teacher Education Licensure (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). Associate in Science recommended for ease of transfer.*

YEAR 1 - FRESHMAN (29 CREDITS)

FALL SEMESTER (14 credits)

General Education and Major Coursework:

MATH 211 (4 credits)

ENGL 110C

Human Behavior

Human Creativity

Professional Education Coursework:

STEM 101 (1 credit)

VCCS Equivalency:

MTH 173, 263 or 273*

ENG 111*

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SPRING SEMESTER (15 credits)

General Education and Major Coursework:

MATH 212 (4 credits)

ENGL 211C or 231C

CS 150 (4 credits)

Literature

Professional Education Coursework:

STEM 102 (1 credit)

VCCS Equivalency:

MTH 174, 264, or 274*

ENG 112, 210, 115 or 131*

CSC 201 or EGR 126*

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YEAR 2 - SOPHOMORE (28 CREDITS)

FALL SEMESTER (14 credits)

General Education and Major Coursework:

CHEM 121N and 122N (4 credits)

PHYS 261N (4 credits)

Information Literacy and Research: CS 120G or CS 121G

Professional Education Coursework:

STEM 201

VCCS Equivalency:

CHM 111*

See note below*

[Transfer Guide](#)

SPRING SEMESTER (14 credits)

General Education and Major Coursework:

CHEM 123N and 124N (4 credits)

PHYS 262N (4 credits)

Oral Communication

Professional Education Coursework:

STEM 202

VCCS Equivalency:

CHM 112*

See note below*

[Transfer Guide](#)

YEAR 3 - JUNIOR (32 CREDITS)

FALL SEMESTER (16 credits)

Major Coursework:

MATH 312 or 285

PHYS 323

PHYS 303

PHYS 355

Philosophy and Ethics

VCCS Equivalency:

MTH 275 or 277*

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SPRING SEMESTER (16 credits)

Major Coursework:

MATH 307 or 280

PHYS 319

PHYS 103N or 104N**

PHYS 468W

Interpreting the Past

VCCS Equivalency:

MTH 267 or 279*

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YEAR 4 - SENIOR (31 CREDITS)

FALL SEMESTER (16 credits)

General Education and Major Coursework:

PHYS 413

PHYS 425

PHYS 499W or 489W & 490W**

PHYS 120 or 309 (1 credit)

Impact of Technology

Professional Education Coursework:

STEM 401

VCCS Equivalency:

[Transfer Guide](#)

SPRING SEMESTER (15 credits)

Professional Education Coursework:

STEM 485

STEM 402

Elective**

VCCS Equivalency:

**Please consult with your ODU advisor for elective coursework.

This 4-year plan does not include 6 credits in Language and Culture, but this requirement may be waived; see ODU catalog.

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 Concentration 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 20th percentile, 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.

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 eligible.