

2014 - 2015 Old Dominion University Catalog

Bachelor of Science in Physics (Concentration A - Research)

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 (14 credits)

General Education and Major Coursework:

CHEM 121N and 122N (4 credits)

Literature

Philosophy and Ethics

PHYS 231 (4 credits)

SPRING SEMESTER (14 credits)

General Education and Major Coursework:

CHEM 123N and 124N (4 credits)

Interpreting the Past

PHYS 232N (4 credits)

Impact of Technology

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (16 credits)

Major Coursework:

MATH 312 or 285 (4 credits)

MATH 307 or 280

PHYS 303

PHYS 319

PHYS 323

SPRING SEMESTER (15 credits)

Major Coursework:

MATH 316, 401, 421 or 422

PHYS 355

PHYS 413

PHYS 420

PHYS 454

YEAR 4 - SENIOR (28 CREDITS)

FALL SEMESTER (13 credits)

General Education and Major Coursework:

PHYS 425

PHYS 452

PHYS 499W or 489W & 490W

PHYS 120 or 309 (1 credit)

Upper Division Gen. Ed. Coursework:

300-/400-level course (Option D)

SPRING SEMESTER (15 credits)

General Education and Major Coursework:

PHYS 453

PHYS 456

Select two of the following: PHYS 313, 350, 411, 415, 416 or 417 (6 credits)

Upper Division Gen. Ed. Coursework:

300-/400-level course (Option D)

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 A (Research) is designed primarily for students preparing to do graduate study in physics and related fields or for students preparing to work professionally upon completion of the B. S. degree in various technical fields requiring the strongest preparation in physics.

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.