

2024 - 2025 Old Dominion University Catalog
Bachelor of Science in Physics with a Major in Astrophysics (BS)
(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

CHEM 121N/122N* (4 credits)

Language and Culture I

(May be waived, see catalog for details)

VCCS Equivalency:

MTH 173, 263 or 273*

ENG 111*

CHM 111*

[Transfer Equivalency Guide](#)

SPRING SEMESTER (15 credits)

General Education and Major Coursework:

MATH 212 (4 credits)

PHYS 261N (4 credits)

PHYS 261N, 231N or 261N, or ASTP 103N or

104N (4 credits)

Language and Culture II

(May be waived, see catalog for details)

VCCS Equivalency:

MTH 174, 264 or 274*

See note below*

NAS 131 or 132*

[Transfer Equivalency Guide](#)

YEAR 2 - SOPHOMORE (34 CREDITS)

FALL SEMESTER (17 credits)

General Education and Major Coursework:

ENGL 211C or 231C

MATH 312 or 285 (4 credits)

PHYS 227N, 232N or 262N (4 credits)

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

or OEAS 130G

Oral Communication

VCCS Equivalency:

ENG 112, 210, 115 or 131*

MTH 265 or 277*

See note below*

[Transfer Equivalency Guide](#)

[Transfer Equivalency Guide](#)

SPRING SEMESTER (17 credits)

General Education and Major Coursework:

MATH 307 or 280

CS 151 or 153 (4 credits)

PHYS 319

PHYS 120 or PHYS 309** (1 credit)

Human Creativity

Interpreting the Past

VCCS Equivalency:

MTH 267 or 279*

CSC 221 (If CSC 221 is taught in C++ , transfers as CS 150, if taught in Java, as CS 151, if taught in Python, as CS 153)*

[Transfer Equivalency Guide](#)

[Transfer Equivalency Guide](#)

YEAR 3 - JUNIOR (30 CREDITS)

FALL SEMESTER (15 credits)

General Education and Major Coursework:

PHYS 303

PHYS 323

PHYS 355

PHYS 425

Literature

VCCS Equivalency:

[Transfer Equivalency Guide](#)

SPRING SEMESTER (15 credits)

General Education and Major Coursework:

ASTP 313

MATH 316, 401, 421 or 422**

PHYS 413, PHYS 453, or PHYS 456**

PHYS 499W or PHYS 489W & 490W (Grade of C or better required)**

Human Behavior

VCCS Equivalency:

[Transfer Equivalency Guide](#)

YEAR 4 - SENIOR (30 CREDITS)

FALL SEMESTER (15 credits)

General Education and Major Coursework:

ASTP 414

PHYS 452

PHYS 420

Impact of Technology

Upper Division Gen. Ed. Coursework:

300-/400-level course (Option D)

VCCS Equivalency:

[Transfer Equivalency Guide](#)

SPRING SEMESTER (15 credits)

General Education and Major Coursework:

PHYS 454

ASTP 495

PHYS 413, PHYS 453 or PHYS 456**

Upper Division Gen. Ed. Coursework:

300-/400-level course (Option D)

VCCS Equivalency:

** Consult catalog, Degree Works, and with advisor.

Upper division general education (minor) has other options, see catalog for requirements.

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 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.

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.

This four-year plan is a suggested curriculum to complete this degree program in four years. It is just one of several plans that will work and is presented only as broad guidance to students. Each student is strongly encouraged to develop a customized plan in consultation with their academic advisor. Additional information can also be found in Degree Works.