

2025 - 2026 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 (26-29 CREDITS)			
FALL SEMESTER (14 credits)		SPRING SEMESTER (12-15 credits)	
<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
MATH 211 (4 credits)	MTH 173, 263 or 273*	MATH 212 (4 credits)	MTH 174, 264 or 274*
ENGL 110C	ENG 111*	ASTP 103N or 104N	
CHEM 121N/122N* (4 credits)	CHM 111*	PHYS 261N, 231N or 226N (4 credits)	NAS 131 or 132*
Elective or Language and Culture I (May be waived, see requirement details)	Transfer Equivalency Guide	Elective or Language and Culture II (May be waived, see requirement details)	Transfer Equivalency Guide
YEAR 2 - SOPHOMORE (34 CREDITS)			
FALL SEMESTER (17 credits)		SPRING SEMESTER (17 credits)	
<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ENGL 211C or 231C	ENG 112, 210, 115 or 131*	MATH 307 or 280	MTH 267 or 279*
MATH 312 or 285 (4 credits)	MTH 265 or 277*	CS 151 or 153 (4 credits)	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)*
PHYS 227N, 232N or 262N (4 credits)	See note below*	PHYS 319	
Information Literacy and Research: CS 120G or CS 121G or OEAS 130G	Transfer Equivalency Guide	PHYS 120 or PHYS 309** (1 credit)	
Oral Communication	Transfer Equivalency Guide	Human Creativity	Transfer Equivalency Guide
		Interpreting the Past	Transfer Equivalency Guide
YEAR 3 - JUNIOR (30 CREDITS)			
FALL SEMESTER (15 credits)		SPRING SEMESTER (15 credits)	
<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
PHYS 303		ASTP 313	
PHYS 323		MATH 316, 401, 421 or 422**	
PHYS 355		PHYS 413, PHYS 453, or PHYS 456**	
PHYS 425		PHYS 499W or PHYS 489W & 490W (Grade of C or better required)**	
Literature	Transfer Equivalency Guide	Human Behavior	Transfer Equivalency Guide
YEAR 4 - SENIOR (30 CREDITS)			
FALL SEMESTER (15 credits)		SPRING SEMESTER (15 credits)	
<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ASTP 414		PHYS 454	
PHYS 452		ASTP 495	
PHYS 420		PHYS 413, PHYS 453 or PHYS 456**	
Impact of Technology	Transfer Equivalency Guide	<u>Upper Division Gen. Ed. Coursework:</u>	
<u>Upper Division Gen. Ed. Coursework:</u>		300-/400-level course (Option D)	
300-/400-level course (Option D)			

** 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.