2024-2025 Old Dominion University Catalog
Bachelor of Science in Computer Science (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). AS in Computer Science recommended for ease of transfer.*

YEAR 1 - FRESHMAN (29 CREDITS)

FALL SEMESTER (16 credits)		SPRING SEMESTER (14 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
MATH 211 (4 credits)	MTH 263*	MATH 212 (4 credits)	MTH 264*
CS 151, or CS 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)*	CS 251 (4 credits)	CSC 222 (If CSC 222 is taught in C++ , transfers as CS 250, if taught in Java, as CS 251, if taught in Python, as CS 253)*
ENGL 110C	ENG 111*	CS 252 (1 credit)	ITN 171*
Human Behavior	Transfer Equivalency Guide	ENGL 211C, or 231C (231C preferred)	ENG 112, 113, 210, 115 OR 131*
		CS 170	CSC 205*
Language and Culture I (May be waived, see catalog for details)	Transfer Equivalency Guide	Language and Culture II (May be waived, see catalog for details)	Transfer Equivalency Guide

YEAR 2 - SOPHOMORE (30 CREDITS)

FALL SEMESTER (16 credits)		SPRING SEMESTER (14 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
Nature of Science I (must be in sequence)***	BIO 101, CHM 111 or PHY 111 preferred*	Nature of Science II (must be in sequence)***	BIO 102, CHM 112 or PHY 112 preferred*
MATH 316 (3 credits)		CS 315	
		CS 361	
CS 330		STAT 330	MTH 245*
Nature of Science I (must be in sequence)***		CS 260	
Oral Communication: COMM 101R or PHIL 160R	Transfer Equivalency Guide	Information Literacy and Research: CS 121G or 202G	Transfer Equivalency Guide

YEAR 3 - JUNIOR (30 - 31 CREDITS)

FALL SEMESTER (13 credits)		SPRING SEMESTER (15 credits)	
Major Coursework:	VCCS Equivalency:	Major Coursework:	VCCS Equivalency:
CS 315			
CS 355		CS 350	
		CS 390	
CS 381	CSC 208 or MTH 288*	CS 450	
Human Creativity	Transfer Equivalency Guide	Literature	Transfer Equivalency Guide
300-/400-level course (Option D)		Interpreting the Past	Transfer Equivalency Guide

YEAR 4 - SENIOR (30 CREDITS)

FALL SEMESTER (15-16 credits)		SPRING SEMESTER (15 credits)	
Major Coursework:	VCCS Equivalency:	Major Coursework:	VCCS Equivalency:
CS 417		CS 411W	
CS 410		CS 471	
Technical Elective**		Elective CS course	
Elective CS course		Elective CS course	
Philosophy and Ethics	Transfer Equivalency Guide	300-/400-level course (Option D)	

Language and Culture may be waived, see ODU catalog.

***Please refer to the catalog and consult with your advisor for appropriate coursework.*

Computer Science students may choose their electives to obtain an emphasis in data science, machine learning, databases, networking, web programming, systems programming, game programming and cybersecurity. See catalog for specific coursework.

**** For eligible courses, please see catalog.*

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

Computer Science majors must earn a grade of C or better in all (non-elective) computer science courses required for the major and in all computer science prerequisite courses. A minimum of 9 credits of upper-level (300/400) computer science elective courses must be completed in addition to the required courses.

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.

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.