2024-2025 Old Dominion University Catalog

Bachelor of Science in Computer Science with a Major in Secondary Computer Science Education (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 (15 credits)

General Education and Major Coursework:	VCCS Equivalency:
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)*
ENGL 110C	ENG 111*
Human Creativity	Transfer Equivalency Guide
Literature	Transfer Equivalency Guide
Professional Education Coursework:	
STEM 103 (2 credits)	

SPRING SEMESTER (14 credits)

General Education and Major Coursework:	VCCS Equivalency:
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)*
CS 252 (1 credit)	ITN 171*
ENGL 211C, 221C, or 231C (231C preferred)	ENG 112, 210, 115 OR 131*
Interpreting the Past	Transfer Equivalency Guide
Human Behavior	Transfer Equivalency Guide

YEAR 2 - SOPHOMORE (34 CREDITS)

FALL SEMESTER (17 credits)

General Education and Major Coursework:	VCCS Equivalency:
Nature of Science I (must be in sequence)**	BIO 101, CHM 111 or PHY 111 preferred*
MATH 211 (4 credits)	MTH 173, 263 or 273*
CS 170	CSC 205*
Oral Communication: COMM 101R or PHIL 160R	Transfer Equivalency Guide
Professional Education Coursework:	
STEM 201	

SPRING SEMESTER (15 credits)

General Education and Major Coursework:	VCCS Equivalency:
Nature of Science II (must be in sequence)**	BIO 102, CHM 112 or PHY 112 preferred*
MATH 212 (4 credits)	MTH 174, 264, or 274*
CS 260 (1 credit)	
Information Literacy and Research: CS 121G or CS 202G	Transfer Equivalency Guide
Professional Education Coursework:	
STEM 202	

YEAR 3 - JUNIOR (30 CREDITS)

FALL SEMESTER (15 credits)

Major Coursework:	VCCS Equivalency:
CS 300T (meets Impact of Technology)	
CS 350	
MATH 316	MTH 266 or 285*
Philosophy and Ethics	Transfer Equivalency Guide
Professional Education Coursework:	
STEM 401	

SPRING SEMESTER (15 credits)

Major Coursework:	VCCS Equivalency:
CS 330	
CS 381	CSC 208 or MTH 288*
CS 361	
STAT 330	MTH 283*
Professional Education Coursework:	
STEM 402	

YEAR 4 - SENIOR (27 CREDITS)

FALL SEMESTER (15 credits)

Major Coursework:	VCCS Equivalency:
CS 355	
CS 432	
CS 462	
CS 468W	
CS 471	

SPRING SEMESTER (14 credits)

Major Coursework:	VCCS Equivalency:
STEM 485 (9 credits)	
CS Upper-Level Elective***	
Elective (2cr)	

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

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

Note: Upper division general education is satisfied through the Professional Education Core Courses.

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

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.

Students must maintain a cumulative GPA of 2.75, a major/content GPA of 2.75 and a professional education GPA of 2.75. Computer science courses must be passed with a grade of C (2.0) or higher. Courses in the professional education core must be completed with a grade of C- or higher for continuance. A professional education GPA of 2.75 is required for continuance. Students must take and pass the Virginia Communication and Literacy Assessment (VCLA) and the Praxis Subject Assessment, Computer Science content knowledge (formerly Praxis II) prior to or while enrolled in the instructional strategies course. All assessments must be passed prior to the start of the Teacher Candidate Internship Orientation session.

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.