

2023-2024 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 (14 credits)

General Education and Major Coursework:

CS 151, or CS 153 (4 credits)

ENGL 110C

Human Creativity

Literature

Professional Education Coursework:

STEM 101 (1 credit)

VCCS Equivalency:

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)*

ENG 111*

[Transfer Equivalency Guide](#)

[Transfer Equivalency Guide](#)

SPRING SEMESTER (15 credits)

General Education and Major Coursework:

CS 251 (4 credits)

CS 252 (1 credit)

ENGL 211C, 221C, or 231C (231C preferred)

Interpreting the Past

Human Behavior

Professional Education Coursework:

STEM 102 (1 credit)

VCCS Equivalency:

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)*

ITN 171*

ENG 112, 210, 115 OR 131*

[Transfer Equivalency Guide](#)

[Transfer Equivalency Guide](#)

YEAR 2 - SOPHOMORE (34 CREDITS)

FALL SEMESTER (17 credits)

General Education and Major Coursework:

Nature of Science I (must be in sequence)**

MATH 211 (4 credits)

CS 170

Oral Communication: COMM 101R

Professional Education Coursework:

STEM 201

VCCS Equivalency:

BIO 101, CHM 111 or PHY 111 preferred*

MTH 173, 263 or 273*

CSC 205*

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SPRING SEMESTER (17 credits)

General Education and Major Coursework:

Nature of Science II (must be in sequence)**

MATH 212 (4 credits)

CS 260 (1 credit)

Information Literacy and Research: CS 121G or CS 202G

Professional Education Coursework:

STEM 202

VCCS Equivalency:

BIO 102, CHM 112 or PHY 112 preferred*

MTH 174, 264, or 274*

[Transfer Equivalency Guide](#)

YEAR 3 - JUNIOR (30 CREDITS)

FALL SEMESTER (15 credits)

Major Coursework:

CS 300T (meets Impact of Technology)

CS 350

MATH 316

Philosophy and Ethics

Professional Education Coursework:

STEM 401

VCCS Equivalency:

[Transfer Equivalency Guide](#)

SPRING SEMESTER (15 credits)

Major Coursework:

CS 330

CS 381

CS 361

STAT 330

Professional Education Coursework:

STEM 402

VCCS Equivalency:

MTH 283*

YEAR 4 - SENIOR (27 CREDITS)

FALL SEMESTER (15 credits)

Major Coursework:

CS 355

CS 432

CS 462

CS 468W

CS 471

VCCS Equivalency:

SPRING SEMESTER (12 credits)

Major Coursework:

STEM 485 (9 credits)

CS Upper-Level Elective***

VCCS Equivalency:

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.