2025 - 2026 Old Dominion University Catalog
Computer Engineering (BSCE) Dual Degree with Cybersecurity (BS Cybersecurity) (with VCCS Equivalencies)

The five-year plan is a suggested curriculum to complete this degree program in five 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.

YEAR 1 - FRESHMAN (30 CREDITS)

FALL SEMESTER (15 credits)		SPRING SEMESTER (15 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ENGN 121	(EGR 121 + ITE 152)* or waived w/ AS	COMM 101R	Transfer Equivalency Guide
CHEM 121N/122N**	CHM 111*	MATH 212	MTH 264*
MATH 211	MTH (MTH 261+262) or 263*	ENGN 122	EGR 125, 126 or CSC 221*
ENGL 110C	ENG 111 or ENGL 114*	PHYS 231N	PHY 241*

YEAR 2 - SOPHOMORE (33 CREDITS)

FALL SEMESTER (17 credits)		SPRING SEMESTER (16 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
MATH 307 (280)	MTH 267 or 289 *	ECE 202	See Below*
ECE 201	See Below*	ECE 287	See Below*
ECE 241	EGR 265 (NOVA only), 270, or 277*	CS 261	
PHYS 232N	PHY 242*	CS 252	ITN 171*
ECE 250	CSC 210 or ITP 232*	CS 381	CSC 208 or MTH 288*
		CYSE 200T	
		ENGL 211C	ENG 112 or ENGL 115*

YEAR 3 - JUNIOR (32 CREDITS)

FALL SEMESTER (15 credits)		SPRING SEMESTER (17 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ECE Elective: (ECE 302, ECE 306, ECE 314, or ECE 350)		ECE 304	
CYSE 201S		ECE 346	
ECE 341		ECE 381	
CS 361	CSC 223* (PVCC only)	ECE 342	
CYSE 250	See Below*	CS 330 or CS 350	
		CRJS 215S or SOC 201S	*See Below

YEAR 4 - SENIOR (32 CREDITS)

FALL SEMESTER (15 credits)		SPRING SEMESTER (17 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ECE 481W		ECE 482	
ECE 443		ECE 419	
ECE 355		ECE 455	
ECE 452		CS 471	
CYSE 301		CYSE 406 or CRJS 406	
		Interpreting the Past	Transfer Equivalency Guide

YEAR 5 (33 CREDITS)

FALL SEMESTER (18 credits)		SPRING SEMESTER (15 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ECE 416		IDS 493	
CYSE 300		CYSE 368 or CYSE 494	ITN 290
CS 462		CYSE 425W or POLS 425W	
PHIL 355E		ENMA 480	
IDS 300W		Literature	Transfer Equivalency Guide
Human Creativity	Transfer Equivalency Guide		

TOTAL CREDIT HOURS: 161

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

Students seeking two degrees must complete a minimum of 150 credit hours.

Minor: This program automatically satisfies a minor in Computer Science.

The General Education requirements in Information Literacy and Research, Impact of Technology, and Philosophy and Ethics are met through the major.

The Upper Division General Education requirement is met through the built-in minor in Computer Science and through the completion of a second major/degree.

Computer Engineering and Cyber Security majors must earn a grade of C or better in all 200-level ECE courses and all CS courses prior to taking the next course in the sequence.

ENGN 121 satisfies the Cybersecurity Information Literacy & Research requirement. CRJS 215S or SOC 201S satisfies the University's Human Beahvior Way of Knowing Requirement.

ECE 452, ECE 419, ECE 455, & ECE 416 are required courses for Cybersecurity curriculum (satisfying 2 Principles and 2 Application Courses) and ECE Technical Electives for Computer Engineering curriculum.

* C or better required for transfer.

** CHEM 120 is for online program students only

VCCS Equivalencies Continued

(ECE 201, 202 & 287) = (EGR 271 + 272)	ECE 202 = EGR 261, EGR 272 or EGE 252 (Nova/Germanna Only)
ECE 201 = EGR 260, EGR 271	ECE 287 = (EGR 255 +261) GCC only
ECE 201 = EGR 251 (Brightpoint CC/NOVA/GCC/PVCC only)	ECE 287 = (EGR 255 + 263) Brightpoint CC only
	ECE 287 = EGR 262