2023 - 2024 Old Dominion University Catalog
Computer Engineering (BSCE) Dual Degree with Computer Science (BSCS) (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 (33 CREDITS)

FALL SEMESTER (16 credits)		SPRING SEMESTER (17 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ENGN 110	EGR 120, 121, 122, 124*	ECE 111	ITE 119*
CHEM 121N/122N or CHEM 120**	CHM 111*	CHEM 123N	CHM 112*
MATH 211	MTH 173, 263, or 273*	MATH 212	MTH 174, 264, or 274*
ENGL 110C (C or better required)	ENG 111*	ENGN 150	EGR 125 or 126*
Human Creativity	Transfer Equivalency Guide	PHYS 231N	PHY 221, 231 or 241*

YEAR 2 - SOPHOMORE (32 CREDITS)

FALL SEMESTER (16 credits)		SPRING SEMESTER (16 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
MATH 307 (280)	MTH 267, 279, 289, or 291*	ECE 202***	EGR 261 or 272*
ECE 201***	EGR 260 or 271*	ECE 287***^	EGR 262 or EGR 271 + 272*
PHYS 232N	PHY 222, 232 or 242*	CS 250 or 251	CSC 210 or ITP 232*
ENGL 211C or 231C (C or better required)	ENG 112, 113, 115, 131, or 137*	CS 252	ITN 171 or 271*
COMM 101R	CST 100 or 105*	CS 381	MTH 288*
		Human Behavior	Transfer Equivalency Guide

YEAR 3 - JUNIOR (33 CREDITS)

FALL SEMESTER (17 credits)		SPRING SEMESTER (16 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ECE 241***	EGR 265, 270, or 277*	ECE 313	
ECE 302		ECE 341	
CS 330		ECE 381	
CS 390		CS 361	
CS 315		CS 450 or CS 418	
Literature	Transfer Equivalency Guide		

YEAR 4 - SENIOR (30 CREDITS)

FALL SEMESTER (15 credits)		SPRING SEMESTER (15 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
MATH 316		ECE 346	
ECE 304		CS 417	
CS 350		CS 355	
ENMA 480 (Satisfies Philosophy and Ethics)		CS Upper Level Elective I	
ECE Technical Elective I		Interpreting the Past	Transfer Equivalency Guide

YEAR 5 (28 CREDITS)

FALL SEMESTER (14 credits)		SPRING SEMESTER (14 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ECE 484W (C or better required)		ECE 487	
ECE 486		CS 471	
ECE 443		CS 411W	
CS 410		CS Upper Level Elective III	
CS Upper Level Elective II		ECE Technical Elective II	

TOTAL CREDIT HOURS: 156

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

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

Computer Engineering majors need four technical elective courses selected from one of three options: 1) four 400-level ECE technial elective courses; 2) three 400-level ECE technical elective courses and one 300-level ECE technical elective course or one approved 300 or 400 level CS/MATH/ENGN course; 3) two 400-level ECE technical elective courses and one approved 300 or 400-level CS course and one approved 300 or 400-level CS/MATH/ENGN course.

ECE 111 and other ECE required courses satisfy the Computer Science Information Literacy & Research requirement of CS 121G. ENGN 150 satisfies the CS 150 requirement in Computer Science curriculum. ECE 304 satisfies the STAT 330 rquirement in Computer Science curriculum. ENMA 480 satisfies the Computer Science Philosophy & Ethics requirement. ECE 346 satisfies the CS 170 requirement in the Computer Science curriculum. ECE 443 satisfies the CS 270 requirement in the Computer Science curriculum.

Computer Engineering students pursuing the dual degree with Computer Science have two remaining ECE 400-level Technical Elective courses.

* C or better required for transfer.

** CHEM 120 is for online program students only

***From John Tyler Community College only: EGR 251 = ECE 201; EGR 261 = ECE 202; EGR 255 + EGR 263 = ECE 287

  & from Germanna Community College: EGR 251 = ECE 201; EGR 252 = ECE 202; EGR 255 + EGR 261 = ECE 287

  & from Northern Virginia Community College: EGR 251 = ECE 201; EGR 252 = ECE 202; EGR 265 = ECE 241

  & from Virginia Peninsula Community College: CSC 202 = CS 250

^ EGR 271 (4 cr) + EGR 272 (4 cr) = ECE 201 (3 cr) + ECE 202 (3 cr) + ECE 287 (2 cr) requirements. Both EGR 271 & EGR 272 must be completed to receive credit for ECE 287.