2023 - 2024 Old Dominion University Catalog
Electrical Engineering (BSEE) Dual Degree with Computer Engineering (BSCE) (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. Students seeking two degrees must complete a minimum of 150 credit hours.

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	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*
COMM 101R	CST 100 or 105*	PHYS 231N	PHY 221, 231 or 241*

YEAR 2 - SOPHOMORE (37 CREDITS)

FALL SEMESTER (19 credits)		SPRING SEMESTER (18 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*
CS 381	MTH 288*	ECE 241	EGR 265, 270, or 277*
PHYS 232N	PHY 222, 232 or 242*	MATH 312 (285)	MATH 265, 275 or 277*
ENGL 211C or 231C (C or better required)	ENG 112, 113, 115, 131, or 137*	CS 250 or 251	CSC 210 or ITP 232*
Human Creativity	Transfer Equivalency Guide	CS 252	ITN 171 or 271*

YEAR 3 - JUNIOR (34 CREDITS)

FALL SEMESTER (16 credits)		SPRING SEMESTER (18 credits)	
General Education and Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ECE 302		ECE 304	
ECE 303		ECE 323	
ECE 313		ECE 346	
ECE 341		ECE 381	
Interpreting the Past	Transfer Equivalency Guide	CS 361	
		ENMA 480 (Satisfies Philosophy and Ethics)	

YEAR 4 - SENIOR (34 CREDITS)

FALL SEMESTER (17 credits)		SPRING SEMESTER (17 credits)	
Major Coursework:	VCCS Equivalency:	General Education and Major Coursework:	VCCS Equivalency:
ECE 484W (C or better required)		ECE 487	
ECE 485W (C or better required)		CS 350	
ECE 486		CS 471	
ECE 443		ECE 387	
ECE 332		Technical Elective	
Literature	Transfer Equivalency Guide	Human Behavior	Transfer Equivalency Guide

TOTAL CREDIT HOURS: 138

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.

Electrical & Computer Engineering 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.

Electrical & Computer Engineering students pursuing the double major/degree need their final technical elective course to be a 400-level ECE technical elective course.

** C or better required for transfer.*

***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

^ 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.

^^Non-major Engineering Elective includes options of any three-credit course from BME, CEE, CS, ENMA (except ENMA 480), MAE, & MSIM.. Consider looking into VCCS equivalents.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major and 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 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.