

## 2025 - 2026 Old Dominion University Catalog

### Electrical Engineering (BSEE) Dual Degree with Modeling & Simulation Engineering (BSCE) (with VCCS Equivalencies)

*The four-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 (30 CREDITS)			
FALL SEMESTER (15 credits)		SPRING SEMESTER (15 credits)	
<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ENGN 121	(EGR 121 + ITE 152)* or waived w/ AS	COMM 101R	<a href="#">Transfer Equivalency Guide</a>
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 (35 CREDITS)			
FALL SEMESTER (19 credits)		SPRING SEMESTER (16 credits)	
<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
MATH 307 (280)	MTH 267 or 289 *	ECE 202	See below*
ECE 201	See below*	ECE 287	See below*
CS 381	CSC 208 or MTH 288*	ECE 241	EGR 265 (NOVA only), 270, or 277*
PHYS 232N	PHY 242*	MATH 312 (285)	MATH 265*
ENGL 211C	ENG 112 or ENGL 115*	ECE 250	CSC 210 or ITP 232*
Human Creativity	<a href="#">Transfer Equivalency Guide</a>		

YEAR 3 - JUNIOR (35 CREDITS)			
FALL SEMESTER (16 credits)		SPRING SEMESTER (19 credits)	
<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 302		ECE 313	
ECE 304		ECE 346	
ECE 461		ECE 381	
ECE 341		ECE 451	
CS 261		ECE 306	
Interpreting the Past	<a href="#">Transfer Equivalency Guide</a>	ECE 320	

YEAR 4 - SENIOR (34 CREDITS)			
FALL SEMESTER (18 credits)		SPRING SEMESTER (18 credits)	
<u>Major Coursework:</u>	<u>VCCS Equivalency:</u>	<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 323		ECE 482	
ECE 332		ENMA 410	
ECE 406		ENMA 480	
ECE 481W		ECE 4XX***	
ECE 303		Human Behavior	<a href="#">Transfer Equivalency Guide</a>
ECE 348		Literature	<a href="#">Transfer Equivalency Guide</a>

**TOTAL CREDIT HOURS: 136**

*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.

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.

#### *VCCS Equivalencies Continued*

(ECE 201, 202 & 287) = (EGR 271 + 272)

ECE 201 = EGR 260, EGR 271

ECE 201 = EGR 251 (Brightpoint CC/NOVA/GCC/PVCC only)

ECE 202 = EGR 261, EGR 272 or EGE 252 ( Nova/Germanna Only)

ECE 287 = (EGR 255 +261) GCC only

ECE 287 = (EGR 255 + 263) Brightpoint CC only

ECE 287 = EGR 262