

2024 - 2025 Old Dominion University Catalog

Bachelor of Science in Electrical Engineering (BSEE) (with 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 Engineering is recommended for ease of transfer.*

YEAR 1 - FRESHMAN (30 CREDITS)

FALL SEMESTER (15 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ENGN 121	(EGR 121 + ITE 152)* or waived w/ AS
CHEM 121N/122N	CHM 111 or (CHEM 111 +112+ 113)*
MATH 211	MTH 173, (MTH 175 + 176), 263, or 273*
ENGL 110C	ENG 111 or ENGL 114*

SPRING SEMESTER (15 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ENGN 122	EGR 125 or 126*
COMM 101R	Transfer Equivalency Guide
MATH 212	MTH 174, 264, or 274*
PHYS 231N	PHY 221, 231, or 241*

YEAR 2 - SOPHOMORE (32 CREDITS)

FALL SEMESTER (17 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
MATH 307 (280)	MTH 267, 279, 289 or 291*
ECE 201	See Below*
ECE 241	EGR 265 (NOVA only), 270, or 277*
PHYS 232N	PHY 222, 232 or 242*
ENGL 231C	ENG 113, 115, 131, or 137*

SPRING SEMESTER (15 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 202	See Below*
ECE 287	See Below*
MATH 312 (285)	MATH 265, 275 or 277*
<i>Interpreting the Past</i>	Transfer Equivalency Guide
<i>Human Creativity</i>	Transfer Equivalency Guide

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (16 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 302	
ECE 303	
ECE 313	
ECE 332	
ECE 304	

SPRING SEMESTER (15 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 461	
ECE 323	
ECE 381	
ECE 451	
<i>Literature</i>	Transfer Equivalency Guide

YEAR 4 - SENIOR (30 CREDITS)

FALL SEMESTER (15 credits)

<u>Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 485W	
ENMA 480	
ECE Technical Elective***	
ECE Technical Elective***	
Upper Division General Education**	

SPRING SEMESTER (15 credits)

<u>General Education and Major Coursework:</u>	<u>VCCS Equivalency:</u>
ECE 487	
ECE Technical Elective***	
ECE Technical Elective***	
<i>Human Behavior</i>	Transfer Equivalency Guide
Upper Division General Education**	

TOTAL CREDIT HOURS: 123

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 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.

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

****Upper Division General Education** (choose 1)

Option D: 6 hours of elective upper-division work from outside of and not required by the student's major and college.

Option A: Any University-approved minor (minimum of 12 hours determined by the department), second degree, or second major

Option B: Any University-approved interdisciplinary minor (specifically 12 hours, 3 can be in the major)

*****Approved ECE Electives** (may require prerequisite course)- Electrical Engineering students need four technical elective courses selected from one of two options: (1) four 400-level ECE technical 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/Engineering course.

Students must earn a C or better in the following courses: ENGL 110C, ENGL 211C, MATH 211, MATH 212, ECE 201, ECE 241, ECE 202, ECE 287, and ECE 485W

Important Notes: Graduates of this program are eligible to take the Fundamentals of Engineering (FE) exam in Virginia and many other states. Course prerequisites are strictly enforced. Please refer to the University Catalog for prerequisites of all courses.

Requirements for graduation include a minimum cumulative grade point average of 2.00 overall and in the major, a grade of C or better in all courses required for the major, including prerequisite courses, 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 221C 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 or EGR 271

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

ECE 202 = EGR 252, EGR 261, EGR 272

ECE 287 = (EGR 255 +261) GCC only

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

ECE 287 = EGR 262

