

2024 - 2025 Old Dominion University Catalog

Bachelor of Science in Computer Engineering - Computer Engineering (BSCE) (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)	SPRING SEMESTER (15 credits)
<u>General Education and Major Coursework:</u> ENGN 121 CHEM 121N/122N** MATH 211 ENGL 110C	<u>VCCS Equivalency:</u> (EGR 121 + ITE 152)* or waived w/ AS CHM 111 or (CHEM 111 +112+ 113)* MTH 173, (MTH 175 + 176), 263, or 273* ENG 111 or ENGL 114*
<u>General Education and Major Coursework:</u> COMM 101R MATH 212 ENGN 122 PHYS 231N	<u>VCCS Equivalency:</u> Transfer Equivalency Guide MTH 174, 264, or 274* EGR 125 or 126* PHY 221, 231, or 241*

YEAR 2 - SOPHOMORE (33 CREDITS)

FALL SEMESTER (17 credits)	SPRING SEMESTER (16 credits)
<u>General Education and Major Coursework:</u> MATH 307 (280) ECE 201 ECE 241 PHYS 232N ECE 250	<u>VCCS Equivalency:</u> MTH 267, 279, 289 or 291* See Below* EGR 265 (NOVA only), 270, or 277* PHY 222, 232 or 242* CS 210 or ITP 232*
<u>General Education and Major Coursework:</u> ECE 202 ECE 287 ENGL 231C CS 252 CS 261 CS 381 Literature	<u>VCCS Equivalency:</u> See Below* See Below* ENG 113, 115, 131, or 137* ITN 171 or 271* MTH 288* Transfer Equivalency Guide

YEAR 3 - JUNIOR (32 CREDITS)

FALL SEMESTER (15 credits)	SPRING SEMESTER (17 credits)
<u>General Education and Major Coursework:</u> ECE 341 ECE3XX^ CS 361 ECE 355 Human Creativity	<u>VCCS Equivalency:</u> CSC 202 (PVCC only)* Transfer Equivalency Guide
<u>General Education and Major Coursework:</u> ECE 304 ECE 342 ECE 346 ECE 381 Technical Elective*** CS 330 or CS 350	<u>VCCS Equivalency:</u>

YEAR 4 - SENIOR (27 CREDITS)

FALL SEMESTER (15 credits)	SPRING SEMESTER (12 credits)
<u>General Education and Major Coursework:</u> ECE 481W ECE 443 ENMA 480 Technical Elective*** Interpreting the Past	<u>VCCS Equivalency:</u> Transfer Equivalency Guide
<u>General Education and Major Coursework:</u> ECE 482 CS 471 Technical Elective*** Human Behavior	<u>VCCS Equivalency:</u> Transfer Equivalency Guide

TOTAL CREDIT HOURS: 122

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.

Computer Engineering majors (BSCOME) 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.

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

^ECE 3XX is a restrictive elective. Must be chosen from the following: ECE 302 or ECE 306 or ECE 350 or ECE 314

**CHEM 120 is the equivalent to CHEM 122N for Online students only.

***Computer Engineering major students need three technical elective courses selected from one of three 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/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/Engineering 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

ECE 201 = 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