

2023 - 2024 Old Dominion University Catalog

Computer Engineering (BSCE) Dual Degree with Cybersecurity (BS Cybersecurity) (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) | |
|--|--------------------------|--|--------------------------|
| <u>General Education and Major Coursework:</u> | <u>VCCS Equivalency:</u> | <u>General Education and Major Coursework:</u> | <u>VCCS Equivalency:</u> |
| 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* |
| COMM 101R | CST 100 or 105* | PHYS 231N | 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> | <u>VCCS Equivalency:</u> | <u>General Education and Major Coursework:</u> | <u>VCCS Equivalency:</u> |
| 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* |
| ECE 241*** | EGR 265, 270, or 277* | CS 250 or 251 | CSC 210 or ITP 232* |
| PHYS 232N | PHY 222, 232 or 242* | CS 252 | ITN 171 or 271* |
| CYSE 200T | | CS 381 | MTH 288* |
| | | ENGL 211C or 231C | ENG 112, 113, 115, 131, or 137* |

YEAR 3 - JUNIOR (34 CREDITS)

| FALL SEMESTER (16 credits) | | SPRING SEMESTER (18 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 304 | |
| ECE 313 | | ECE 346 | |
| ECE 341 | | ECE 381 | |
| CS 361 | | CS 350 | |
| CYSE 250 | | CYSE 201S | |
| | | CRJS 215S or SOC 201S | |
| | | | ADJ 107, 201; SOC 200, 201, 202, 236; SOCI 104, 105, 106, 188; SSC 205 |

YEAR 4 - SENIOR (34 CREDITS)

| FALL SEMESTER (17 credits) | | SPRING SEMESTER (17 credits) | |
|--|--------------------------|--|--|
| <u>General Education and Major Coursework:</u> | <u>VCCS Equivalency:</u> | <u>General Education and Major Coursework:</u> | <u>VCCS Equivalency:</u> |
| ECE 484W (C or better required) | | ECE 487 | |
| ECE 486 | | ECE 419 | |
| ECE 443 | | ECE 455 | |
| ECE 355 | | CS 471 | |
| ECE 452 | | CYSE 406 or CRJS 406 | |
| CYSE 301 | | Interpreting the Past | Transfer Equivalency Guide |

YEAR 5 (33 CREDITS)

| FALL SEMESTER (18 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> |
| ECE 416 | | IDS 493 | |
| CYSE 300 | | CYSE 368 or CYSE 494 | |
| CS 462 | | CYSE 425W or POLS 425W | |
| PHIL 355E | | ENMA 480 (Satisfies Philosophy and Ethics) | |
| IDS 300W | | Literature | Transfer Equivalency Guide |
| Human Creativity | Transfer Equivalency Guide | | |

TOTAL CREDIT HOURS: 167

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 Cybersecurity 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.

ECE 111 satisfies the Cybersecurity Information Literacy & Research requirement. CRJS 215S or SOC 201S satisfies the University's Human Behavior Way of Knowing Requirement.

ECE 452, ECE 419, ECE 455, & ECE 416 are required courses for Cybersecurity curriculum (satisfying 2 Principles and 2 Application Courses) and ECE Technical Electives for Computer Engineering curriculum.

* 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.