

2022 - 2023 Old Dominion University Catalog

Bachelor of Science in Electrical Engineering (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 (33 CREDITS)

FALL SEMESTER (16 credits)

General Education and Major Coursework:
ENGN 110
CHEM 121N/122N
MATH 211

VCCS Equivalency:
EGR 121, 120, or 124*
CHM 111*
MTH 173, 263, or 273*

SPRING SEMESTER (17 credits)

General Education and Major Coursework:
ECE 111
CHEM 123N
MATH 212

VCCS Equivalency:
EGR 122, or ITE 119*
CHM 112*
EGR 260 or 271*

YEAR 2 - SOPHOMORE (32 CREDITS)

FALL SEMESTER (17 credits)

ECE 241
PHYS 232N
ENGL 231C (C or better required)

EGR 270 or 277*
PHY 232 or 242*
ENG 115 or 131*

ECE 287**^
Non-major Engineering Elective^^
MATH 312 (285)
Interpreting the Past

EGR 262 or EGR 271 + 272*
MATH 265, 275 or 277*
[Transfer Equivalency Guide](#)

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (16 credits)

General Education and Major Coursework:
ECE 302
ECE 303
ECE 313 (4 credits)
ECE 332
Human Creativity

VCCS Equivalency:
[Transfer Equivalency Guide](#)

General Education and Major Coursework:
ECE 304
ECE 323
ECE 381
ECE 387
Literature

VCCS Equivalency:
[Transfer Equivalency Guide](#)

YEAR 4 - SENIOR (31 CREDITS)

FALL SEMESTER (17 credits)

Major Coursework:
ECE 485W (C or better required)
ECE 486 (2 credits)
ECE Technical Elective
ECE Technical Elective
ENMA 480 (Satisfies Philosophy and Ethics)
Upper Division General Education

VCCS Equivalency:

General Education and Major Coursework:
ECE 487 (2 credits)
ECE Technical Elective
ECE Technical Elective
Human Behavior
Upper Division General Education

VCCS Equivalency:
[Transfer Equivalency Guide](#)

TOTAL CREDIT HOURS: 127

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 Engineering majors must earn a grade of C or better in all 200-level ECE courses prior to taking the next course in the sequence.

* 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 221C or 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.