

2019 - 2020 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 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
ENGL 110C (C or better required)
COMM 101R

VCCS Equivalency:

EGR 120 or 124*
CHM 111*
MTH 173, 263, or 273*
ENG 111*
CST 100, 105 or 110*

SPRING SEMESTER (17 credits)

General Education and Major Coursework:

ECE 111
CHEM 123N
MATH 212
CS 150 or ENGN 150
PHYS 231N

VCCS Equivalency:

Dept. approval upon admission*
CHM 112*
MTH 174, 264, or 274*
ITP 132, CSC 201, EGR 125 or EGR 126*
PHY 231 or 241*

YEAR 2 - SOPHOMORE (32 CREDITS)

FALL SEMESTER (17 credits)

General Education and Major Coursework:

MATH 307 (280)
ECE 201
ECE 241
PHYS 232N
Interpreting the Past

VCCS Equivalency:

MTH 267, 279 or 291*
EGR 260 or 271*
EGR 270 or 277*
PHY 232 or 242*
[Transfer Guide](#)

SPRING SEMESTER (15 credits)

General Education and Major Coursework:

ECE 202
ECE 287
Non-major Engineering Elective
MATH 312 (285)
ENGL 231C (C or better required)

VCCS Equivalency:

EGR 261 or 272*
EGR 262*
MATH 265, 275 or 277*
ENG 115 or 131*

YEAR 3 - JUNIOR (31 CREDITS)

FALL SEMESTER (16 credits)

General Education and Major Coursework:

ECE 302
ECE 303
ECE 313
ECE 332
Human Creativity

VCCS Equivalency:

[Transfer Guide](#)

SPRING SEMESTER (15 credits)

General Education and Major Coursework:

ECE 304
ECE 387 (or Technical Elective)
ECE 323
ECE 381
Literature

VCCS Equivalency:

[Transfer Guide](#)

YEAR 4 - SENIOR (31 CREDITS)

FALL SEMESTER (17 credits)

Major Coursework:

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

VCCS Equivalency:

SPRING SEMESTER (14 credits)

General Education and Major Coursework:

ECE 487
ECE Technical Elective
ECE Technical Elective
Human Behavior
Upper Division General Education

VCCS Equivalency:

[Transfer 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.

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.