General Education and Major Coursework:

VCCS Equivalency:

ENGL 110C
ENG 111*
ENGL 231C
ENG 115 or 131*

MATH 211 (4 credits)
MTH 173, 263 or 273*
MATH 212 (4 credits)
MTH 174, 264, or 274*

ENGN 110 (2 credits)
EGR 120*

Language and Culture I
Transfer Guide

(May be waived, see catalog for details)

Oral Communication: COMM 101R preferred
CST 100, 105 or 110*

Human Creativity
Transfer Guide

Transfer Guide

YEAR 1 - (31 CREDITS)

FALL SEMESTER (15 credits)

General Education and Major Coursework:

VCCS Equivalency:

CHEM 121N and 122N (4 credits)
CHM 111*

MATH 312 or 285 (4 credits)
MTH 265 or 277*

PHYS 261N (4 credits)
See note below*

CS 150 (4 credits)
CSC 201 or EGR 126*

Major Coursework:

PHYS 323
ECE 202
ECE 287 (2 credits)
ECE 241 (4 credits)

Literature
Transfer Guide

SPRING SEMESTER (16 credits)

General Education and Major Coursework:

VCCS Equivalency:

CHEM 123N and 124N (4 credits)
CHM 112*

MATH 307 or 280
MTH 267 or 279*

PHYS 262N (4 credits)
See note below*

ECE Technical Elective I**
PHYS 480 (Meets Philosophy and Ethics requirement)
PHYS 485W
PHYS 486 (2 credits)
ECE 304

Major Coursework:

PHYS 454
PHYS 452
PHYS 420
ECE 302
ECE 387

YEAR 2 - (32 CREDITS)

FALL SEMESTER (16 credits)

Major Coursework:

PHYS 332
EGR 261 or 272*
EGR 262*
EGR 270 or 277*

Literature
Transfer Guide

SPRING SEMESTER (16 credits)

Major Coursework:

PHYS 319
PHYS 425
PHYS 413
ECE 332
PHYS 355

ECE 111 (Meets Information Literacy Requirement)
Dept. approval upon Admission

YEAR 3 - JUNIOR (30 CREDITS)

FALL SEMESTER (15 credits)

Major Coursework:

PHYS 453 or ECE 323**
ECE 313 (4 credits)
PHYS 499W or 489W & 490W**
ECE 303
ECE 381

SPRING SEMESTER (15 credits)

Major Coursework:

PHYS 456
ECE 487 (2 credits)
ECE Technical Elective II**
ECE Technical Elective III**
ECE Technical Elective IV**

Interpreting the Past
Transfer Guide

YEAR 4 - SENIOR (31 CREDITS)

FALL SEMESTER (15 credits)

Major Coursework:

PHYS 454
PHYS 452
PHYS 420
ECE 302
ECE 387

SPRING SEMESTER (15 credits)

Major Coursework:

PHYS 456
ECE 487 (2 credits)
ECE Technical Elective II**
ECE Technical Elective III**
ECE Technical Elective IV**

Interpreting the Past
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YEAR 5 - (34 CREDITS)

FALL SEMESTER (17 credits)

Major Coursework:

PHYS 454
PHYS 452
PHYS 420
ECE 302
ECE 387

SPRING SEMESTER (17 credits)

Major Coursework:

PHYS 456
ECE 487 (2 credits)
ECE Technical Elective II**
ECE Technical Elective III**
ECE Technical Elective IV**

Interpreting the Past
Transfer Guide

**Please consult with your ODU advisor for elective coursework.

The Impact of Technology requirement is met with the ECE major.

The Upper Division General Education will be satisfied by completion of the dual majors.

Concentration D is a five-year, dual degree program in physics and electrical engineering. Students will receive a B.S. and B.S.E.E. upon graduation. Concentration D provides the highest level of preparation for both graduate school and positions in industry.

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.

Note: PHYS 261N and 262N have no VCCS equivalency. However, if you must take Physics courses for the AS degree, you should take PHY 221, 231 or 241 and PHY 222, 232 or 242. These courses transfer as PHYS 231N and PHYS 232N. The Department will assess student's proficiency and substitute for PHYS 261N and 262N if eligible.