### General Education and Major Coursework

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**General Education and Major Coursework: VCCS Equivalency:**

- ENG 110C: ENGL 111 or ENGL 114*
- MATH 307: MTH 267, 279, 289 or 291*
- ENGM 210: COMM 101R
- CHEM 121N or CHEM 111 +112+113)*: CHM 111 or (CHEM 111 +112+ 113)*
- MATH 211: MTH 173, (MTH 175 + 176), 263, or 273*
- ENGL 110C: ENGL 111 or ENGL 114*
- MATH 212: MTH 174, 264, or 274*
- ENGM 122: EGR 125 or 126*
- PHYS 231N: PHYS 221, 231, or 241*
- MATH 211: MTH 173, (MTH 175 + 176), 263, or 273*
- CHEM 121N or CHEM 111 +112+113)*: CHEM 111 or (CHEM 111 +112+ 113)*
- MATH 211: MTH 173, (MTH 175 + 176), 263, or 273*
- ENGM 122: EGR 125 or 126*
- PHYS 231N: PHYS 221, 231, or 241*

#### Year 1 - Freshman (33 Credits)

**FALL SEMESTER (15 credits)**

- ENGM 121: (EGR 121 + (ITE 152)* or waived w/ AS)
- CHEM 121N or CHEM 111 +112+113)*: CHM 111 or (CHEM 111 +112+ 113)*
- MATH 211: MTH 173, (MTH 175 + 176), 263, or 273*
- ENGL 110C: ENGL 111 or ENGL 114*

**SPRING SEMESTER (15 credits)**

- COMM 101R
- MATH 212: MTH 174, 264, or 274*
- ENGM 122: EGR 125 or 126*
- PHYS 231N: PHYS 221, 231, or 241*

#### Year 2 - Sophomore (32 Credits)

**FALL SEMESTER (17 credits)**

- MATH 307 (280) or MTH 267, 279, 289 or 291*
- ECE 201: See Below*
- ECE 241: EGR 265 (NOVA only), 270, or 277*
- PHYS 232N: PHY 222, 232 or 242*
- ECE 250: CS 210 or ITP 232*

**SPRING SEMESTER (15 credits)**

- MATH 212: MTH 174, 264, or 274*
- ENGM 122: EGR 125 or 126*
- PHYS 231N: PHYS 221, 231, or 241*

**General Education and Major Coursework:**

- Interpreting the Past: Transfer Equivalency Guide
- Upper Division General Education**

**YEAR 3 - JUNIOR (30 CREDITS)**

**FALL SEMESTER (15 credits)**

- ECE 302: ECE 346
- ECE 304: ECE 348
- ECE 306: ECE 320
- ECE 341: ECE 381

**SPRING SEMESTER (15 credits)**

- ECE 481W
- Technical Elective***
- ENMA 480: ENMA 410

**Human Creativity:**

**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 four-year plan is a suggested curriculum to complete this degree program in four 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.

The General Education requirements in Information Literacy and Research, Impact of Technology, and Philosophy and Ethics are met through the major.

Modeling & Simulation 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.

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

**Upper Division General Education** (choose 1)

- Option A: Any University-approved minor (minimum of 12 hours determined by the department), second degree, or second major
- Option B: Any University-approved interdisciplinary minor (specifically 12 hours, 3 can be in the major)

**Computer Engineering-Modeling & Simulation Engineering major students need two technical elective courses selected from one of two options: (1) three 400-level ECE technical elective courses; and (2) two 400-level ECE technical elective courses and one 300-level ECE technical elective course or one approved 300- or 400-level CS/MATH/ENGM 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 or EGR 271
- ECE 201 = EGR 260
- ECE 202 = EGR 251 (Brightpoint CC/NOVA/GCC/PVCC only)
- ECE 202 = EGR 26, 261, EGR 272
- ECE 287 = (EGR 255 +261) GCC only
- ECE 287 = (EGR 255 + 263) Brightpoint CC only
- ECE 287 = EGR 262

**Transfer Equivalency Guide**