# Bachelor of Science in Modeling and Simulation Engineering (with VCCS Equivalencies)

## Sample four year curriculum with a suggested ordering of courses. Students may re-order as needed and where appropriate.

* indicates not automatically waived with transferrable associates degree, C or better required for transfer.

### 2013 - 2014 Old Dominion University Catalog

**General Education Coursework:**

- **FALL SEMESTER (16 credits)**
  - MATH 211
  - ENGL 110C (C or better required)
  - CHEM 123N
  - ENGN 110
  - COMM 101R

- **SPRING SEMESTER (17 credits)**
  - MTH 173 or 273*
  - ENG 111*
  - CHM 111*
  - EGR 120*
  - CST 100, 105 or 110*

**VCCS Equivalency:**

- **FALL SEMESTER (16 credits)**
  - MTH 172
  - CHEM 123N
  - CHM 111*
  - MST 201
  - ITN 171 or 271*

- **SPRING SEMESTER (17 credits)**
  - MTH 174 or 274*
  - CHEM 123N
  - CS 150
  - PHY 231 or 241*
  - MSIM 111

**Major Coursework:**

- **FALL SEMESTER (15 credits)**
  - MSIM 201
  - STAT 330
  - PHYS 232N
  - CS 250
  - CS 252

- **SPRING SEMESTER (16 credits)**
  - MSIM 205
  - MSIM 281
  - PHY 307
  - CSC 202 or 210*
  - ITN 171 or 271*

**VCCS Equivalency:**

- **FALL SEMESTER (16 credits)**
  - MSIM 205
  - MSIM 281
  - MSIM 331
  - MSIM 383 (1 credit)
  - MSIM 410

- **SPRING SEMESTER (16 credits)**
  - MSIM 381
  - Interpreting the Past
  - MSIM 451
  - Upper-Division General Education

**TOTAL CREDIT HOURS: 127**

*Does not include the University's General Education Language and Culture Requirement. Additional hours may be required.

**Students in the Modeling and Simulation Engineering Program may substitute BIOL 115N and BIOL 116N in place of the CHEM 121N, CHEM 122N, and CHEM 123N requirement.

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

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.