## FALL SEMESTER (17 credits)
### General Education and Major Coursework:
- **CHEM 121N/122N**: CHM 111
- **MATH 163**: MTH 162, 164 or 167
- **BIOL 121N & 122N**: BIO 101
- **ENGL 110C**: ENG 111
- **Information Literacy and Research**: CHEM 160G

### VCCS Equivalency:
- **CHEM 121N/122N**: CHM 111
- **MATH 163**: MTH 162, 164 or 167
- **BIOL 121N & 122N**: BIO 101
- **ENGL 110C**: ENG 111

## SPRING SEMESTER (15 credits)
### General Education and Major Coursework:
- **CHEM 123N/124N**: CHM 112
- **MATH 211**: MTH 173, 263 or 273
- **BIOL 123N & 124N**: BIO 102
- **ENG 211C or 231C**: ENGL 211C or 231C

### VCCS Equivalency:
- **CHEM 123N/124N**: CHM 112
- **MATH 211**: MTH 173, 263 or 273
- **BIOL 123N & 124N**: BIO 102
- **ENG 211C or 231C**: ENGL 211C or 231C

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## YEAR 2 - SOPHOMORE (28 CREDITS)

### FALL SEMESTER (15 credits)
### General Education and Major Coursework:
- **CHEM 211 & CHEM 212**: CHM 241 & 243
- **MATH 212**: MTH 174, 264, or 274
- **COMM 101R**: CST 105 or 110
- **Language and Culture I**: Transfer Equivalency Guide

### VCCS Equivalency:
- **CHEM 211 & CHEM 212**: CHM 241 & 243
- **MATH 212**: MTH 174, 264, or 274
- **COMM 101R**: CST 105 or 110
- **Language and Culture I**: Transfer Equivalency Guide

### SPRING SEMESTER (14 credits)
### General Education and Major Coursework:
- **CHEM 213 & 214 or CHEM 216**: ELECTIVE
- **Human Behavior**: Transfer Equivalency Guide

### VCCS Equivalency:
- **CHEM 213 & 214 or CHEM 216**: ELECTIVE
- **Human Behavior**: Transfer Equivalency Guide

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## YEAR 3 - JUNIOR (28 CREDITS)

### FALL SEMESTER (15 credits)
### General Education and Major Coursework:
- **CHEM 321 & 322**: CHEM 443
- **BIOL 293**: CHEM 442W
- **CHEM 441**: ELECTIVE

### VCCS Equivalency:
- **CHEM 321 & 322**: CHEM 443
- **BIOL 293**: CHEM 442W
- **CHEM 441**: ELECTIVE

### SPRING SEMESTER (13 credits)
### General Education and Major Coursework:
- **CHEM 485 (1 credit)**
- **Interpreting the Past**: Transfer Equivalency Guide
- **Philosophy and Ethics**: Transfer Equivalency Guide

### VCCS Equivalency:
- **CHEM 485 (1 credit)**
- **Interpreting the Past**: Transfer Equivalency Guide
- **Philosophy and Ethics**: Transfer Equivalency Guide

## YEAR 4 - SENIOR (31 CREDITS)

### FALL SEMESTER (15 credits)
### General Education and Major Coursework:
- **BIOL 294**: Transfer Equivalency Guide
- **CHEM 331**: Transfer Equivalency Guide

### VCCS Equivalency:
- **BIOL 294**: Transfer Equivalency Guide
- **CHEM 331**: Transfer Equivalency Guide

### SPRING SEMESTER (16 credits)
### General Education and Major Coursework:
- **Impact of Technology**: Transfer Equivalency Guide
- **Human Creativity**: Transfer Equivalency Guide

### VCCS Equivalency:
- **Impact of Technology**: Transfer Equivalency Guide
- **Human Creativity**: Transfer Equivalency Guide

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*Please consult with catalog and advisor for appropriate coursework.

**Note:** Upper division general education (minor) has other options, see catalog for requirements.

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

This 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.