# Bachelor of Science in Mechanical Engineering (BSME) (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.

## FALL SEMESTER (16 credits)
### General Education and Major Coursework:
- MATH 211 (C or better required)
- CHEM 121N/122N (C or better required)
- ENGL 110
- COMM 101R

### VCCS Equivalency:
- MATH 212 (C or better required)
- CHM 111*
- EGR 120, 121, 122, 124*
- CST 100 or 105*

## SPRING SEMESTER (17 credits)
### General Education and Major Coursework:
- MATH 212 (C or better required)
- CHEM 121N/122N (C or better required)
- ENGL 111
- COMM 101R

### VCCS Equivalency:
- MTH 174, 264, or 274*
- MET 236
- PHYS 231N (C or better required)
- ENG 150

## YEAR 2 - SOPHOMORE (34 CREDITS)
### FALL SEMESTER (18 credits)
### General Education and Major Coursework:
- PHYS 232N
- MATH 312 (285)
- MAE 204 (C or better required)
- MAE 201 (C or better required)
- MAE 203 (1 credit)
- ENGL 211C or 231C (C or better required)

### VCCS Equivalency:
- PHY 222, 232 or 242*
- MTH 265, 275 or 277*
- EGR 140 or 240*
- MATH 307 (280)
- ENG 112, 113, 115, 131, or 137*

## SPRING SEMESTER (16 credits)
### General Education and Major Coursework:
- MAE 204 (C or better required)
- MAE 201 (C or better required)
- MAE 203 (1 credit)
- MAE 311 (C or better required)
- MAE 340

### VCCS Equivalency:
- MAE 205 (C or better required)
- MAE 220 (C or better required)
- EGR 140 or 240*
- MATH 307 (280)
- MAE 315

## YEAR 3 - JUNIOR (34 CREDITS)
### FALL SEMESTER (16 credits)
### General Education and Major Coursework:
- MAE 303 (C or better required)
- MAE 305 (1 credit)
- MAE 311 (C or better required)
- MAE 340

### VCCS Equivalency:
- MAE 312
- MAE 332 (C or better required)
- MAE 336
- MAE 315

## SPRING SEMESTER (18 credits)
### General Education and Major Coursework:
- Literature
- Human Creativity

### Transfer Equivalency Guide:
- Philosophy and Ethics (ENMA 480 preferred)

## YEAR 4 - SENIOR (27 CREDITS)
### FALL SEMESTER (15 credits)
### General Education and Major Coursework:
- MAE 433
- MAE 434W (C or better required)
- MAE 436
- MAE Option Course

### VCCS Equivalency:
- MAE 435
- MAE Option Course

### Upper-Division General Education
- Interpreting the Past
- Transfer Equivalency Guide

## SPRING SEMESTER (12 credits)
### General Education and Major Coursework:
- MAE Option Course
- Upper-Division General Education

### VCCS Equivalency:
- Interpreting the Past

## TOTAL CREDIT HOURS: 128

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.

This 4-year plan does not include 6 credits in Language and Culture, but this requirement may be waived; see ODU catalog for details.

Senior Electives: In the senior year, students should select their three elective courses to support a chosen specialty area. Examples include:
1) Power/Energy: 3 courses from MAE 411, 412, 413, 414, 417, 438, 440
2) Mechanical Systems Design: 3 courses from MAE 404, 422, 431, 438, 440, or 441
3) Aerospace: 3 courses from MAE 403, 496, 417, 420 (or 440), 438, 460
4) Alternative combinations may be selected with advisor approval.

General Education requirements in Information Literacy and Research and Impact of Technology are met through the major. For additional information consult the department undergraduate handbook.

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.