

2022 - 2023 Old Dominion University Catalog

Bachelor of Science in Mechanical Engineering (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.*

YEAR 1 - FRESHMAN (33 CREDITS)

FALL SEMESTER (16 credits)

General Education and Major Coursework:

MATH 211
CHEM 121N/122N
ENGL 110C (C or better required)
ENGN 110
COMM 101R

VCCS Equivalency:

MTH 173, 263, or 273*
CHM 111*
ENG 111*
EGR 120 or 121*
CST 100, 105 or 110*

SPRING SEMESTER (17 credits)

General Education and Major Coursework:

MATH 212
MET 230
PHYS 231N
CS 150 or ENGN 150
MAE 111

VCCS Equivalency:

MTH 174, 264, or 274*
Dept. approval upon admission
PHY 231 or 241*
ITP 132, EGR 125 or EGR 126*
EGR 122 and completed AS in Engineering*

YEAR 2 - SOPHOMORE (34 CREDITS)

FALL SEMESTER (18 credits)

General Education and Major Coursework:

PHYS 232N
MATH 312 (285)
MAE 204
MAE 201
MAE 203 (1 credit)
ENGL 211C or 231C (C or better required)

VCCS Equivalency:

PHY 232 or 242*
MATH 265, 275 or 277*
EGR 140 or 240*
ENG 112, 115 or 131*

SPRING SEMESTER (16 credits)

General Education and Major Coursework:

MAE 205
MAE 220
MAE 225 (1 credit)
MATH 307 (280)
STAT 330
Interpreting the Past

VCCS Equivalency:

EGR 245*
EGR 246*
EGR 247*
MTH 267, 279 or 291*
MTH 283*
[Transfer Equivalency Guide](#)

YEAR 3 - JUNIOR (34 CREDITS)

FALL SEMESTER (16 credits)

Human Creativity

[Transfer Equivalency Guide](#)

Philosophy and Ethics (ENMA 480 preferred)
Human Behavior

[Transfer Equivalency Guide](#)
[Transfer Equivalency Guide](#)

SPRING SEMESTER (18 credits)

YEAR 4 - SENIOR (27 CREDITS)

FALL SEMESTER (15 credits)

Major Coursework:

MAE 433
MAE 434W (C or better required)
MAE 436
MAE Option Course
Upper-Division General Education

VCCS Equivalency:

SPRING SEMESTER (12 credits)

Major Coursework:

MAE 435
MAE Option Course
MAE Option Course
Upper-Division General Education

VCCS Equivalency:

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.

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 221C or 231C, and a writing intensive (W) course in the major with a grade of C or better, and completion of Senior Assessment.