

**B.S.E.T. Mechanical Engineering Technology- Manufacturing Systems and Mechanical System Design Options  
2018-19 Old Dominion University Catalog**



Name: \_\_\_\_\_  
 UIN: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Location: \_\_\_\_\_

**Initial Unofficial Evaluation** completed by David McMillan, Director of Prospective Student Coaching and Advising  
 757-448-3741, djmcmill@odu.edu Date: \_\_\_\_\_

**Lower Division General Education and Departmental Requirements** (\*indicates departmental requirement)

Old Dominion University Courses	Grades	Credits	VCCS Equivalencies / Notes
GEN ED. (DEPT) Written Comm. Skills (ENGL 110C)	_____	3	ENG 111
GEN ED. (DEPT) Written Comm. Skills (ENGL 211C)	_____	3	ENG 112 or ENG 210
GEN ED. (DEPT) Oral Comm Skills (COMM 101R)	_____	3	CST 100, 105, or 110
GEN ED. (DEPT) Mathematical Skills (MATH 162M)	_____	3	MTH 161,163, 166, or 171
DEPT. MATH 163 Precalculus II	_____	3	MTH 162, 164, 166, 167, or 172
DEPT. MATH 211 Calculus I	_____	4	MTH 173, MTH 263, MTH 271 <u>plus</u> 272 , or MTH 273
GEN ED. Human Behavior	_____	3	<a href="#">See Transfer Guide</a>
GEN ED. Human Creativity	_____	3	<a href="#">See Transfer Guide</a>
GEN ED. Interpreting the Past	_____	3	<a href="#">See Transfer Guide</a>
GEN ED. Language and Culture	_____	0-6	See Note #6 on page 2 of curriculum sheet
GEN ED. Literature	_____	3	<a href="#">See Transfer Guide</a>
GEN ED. (DEPT) Nature of Science (PHYS 111N)	_____	4	PHY 111 or 201
GEN ED. (DEPT) Nature of Science (PHYS 112N)	_____	4	PHY 112 or 202
DEPT. CHEM 121N/122N Foundations of Chemistry I	_____	4	CHM 111
DEPT. ENGN 110 Intro Engin/ENGT111 Info Literacy & Research	_____	2/2	See Note #2 on page 2 of curriculum sheet
DEPT. CET 200 Statics	_____	3	_____
DEPT. CET 220 Strength of Materials	_____	3	_____
DEPT. MET 120 Computer-Aided Drafting	_____	3	CAD/DRF 114, 115, 151, 152, 201, 202, 203, 231,232, or 233
DEPT. MET 200 Manufacturing Processes	_____	3	IND 113 + 114, IND 115, MEC 112, or MEC 113
DEPT. MET 225 Material Science Laboratory	_____	1	EGR 247; can also be met by CET 345W (ODU)
DEPT. MET 240 Computer Solid Modeling	_____	3	CAD/DRF 238, 241, 242, 243, or 243 (DRF 203-VWCC only)
DEPT. STEM 221 or 231 Industrial Materials	_____	3	IND 113 + 114, IND 115, MEC 113, MEC 119, or EGR 123

**NOTE:** IND 115 and MEC 113 can transfer as either MET 200 or STEM 231, but not both

**NOTE:** additional VCCS equivalencies may exist for the lower-division engineering courses

**Upper Division General Education and Departmental Requirements**

Old Dominion University Courses	Grades	Credits	Notes
GEN ED/ DEPT Minor	_____	3	See Note #4 on page 2 of curriculum sheet
GEN ED/ DEPT Minor	_____	3	_____
GEN ED/ DEPT Minor	_____	3	_____
GEN ED/ DEPT Minor	_____	3	_____
EET 305 Advanced Technical Analysis	_____	3	C or better in Math 211 is prerequisite.
EET 350 Fundamentals of Electrical Tech	_____	3	_____
EET 355 Electrical Laboratory	_____	1	_____
ENGN 401 FE Review	_____	1	ENGN elective credit will substitute if not offered online.
ENMA 480 Ethical Leadership in Engr Apps	_____	3	Meets Philosophy and Ethics general education requirement
MET 300 Thermodynamics	_____	3	_____
MET 310 Dynamics	_____	3	_____
MET 320 Design of Machine Elements	_____	3	_____
MET 330 Fluid Mechanics	_____	3	_____
MET 335W Fluid Mechanics Laboratory	_____	1	_____
MET 350 Thermal Applications	_____	3	_____
MET 370 Automation & Controls	_____	3	_____
MET 386 Automation & Controls Laboratory	_____	1	_____
MET 387 Power & Energy Laboratory	_____	2	_____
Senior Elective METs (Four 3-credit courses)	_____	12	See Note #5 on page 2 of curriculum sheet
ENGT 434 Intro to Senior Design Project	_____	1	_____
ENGT 435W Senior Design Project	_____	3	_____

Writing Sample Placement Test  Passed Writing Proficiency  Satisfied  
 Senior Assessment  Completed Apply for Graduation  Completed

**A minimum 127 credit hours and 2.00 grade point average in the major, minor and overall required.**

**B.S.E.T., Mechanical Engineering Technology  
Manufacturing Systems and Mechanical Systems Design Options  
Program Information**

1. The Mechanical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>. MET graduates receive the Bachelor of Science in Engineering Technology degree. Opportunities for graduates include positions in machine and tool design, production supervision, robotics, facilities operation, computer-integrated manufacturing, test engineering, and other related areas.
2. There are not any transfer equivalencies for ENGT 111 in the VCCS. Program Directors will review students' transfer credits and make substitutions if there are appropriate alternative courses. ITE 119 is an acceptable substitution, but should only be taken if necessary after review of existing transfer credits by Program Director.
3. Course prerequisites are strictly enforced. Please refer to University Catalog to see prerequisites for all courses. MET 435W is normally taken in the final semester; students who have completed most other MET courses may take MET 435W earlier with permission of Program Director.
4. Students must select a minor from the College of Engineering and Technology or the College of Sciences. Because EET 350 and ENMA 480 are required for the major, only 9 additional hours are required for the EET and ENMA minors. Therefore, EET and ENMA minors can reduce total required hours by 3 (125 minimum instead of 128).
5. Any 400 level MET course may be used as a senior elective. Electives for the Manufacturing Systems option include MET 400, 410, 445, 450, and 480. Electives for the Mechanical Systems/Design option include MET 430, 440, 450, and 460. EET 360 may also be used as an MET senior elective for either option. If EET 360 is taken as an EET minor requirement, however, it can no longer be used as a senior elective. When senior electives do not match requirements for either option, the Mechanical Engineering Technology major is still completed, but a specific concentration is not noted on transcript.
6. The general education requirement in foreign language is met or waived for students who:
  - Completed high school before December 31, 1985 (also applies if GED received after a scheduled graduation of December 31, 1985 or earlier).
  - Completed the third level of one foreign language in high school.
  - Completed the second level in each of two foreign languages in high school.
  - Earned a university-parallel associate's degree approved to meet all lower division general education requirements.
  - Earned a bachelor's degree from a regionally-accredited institution prior to admission to ODU as a second degree student.
  - Have a native language other than English.

If the requirement is not met by one of those means, students must successfully complete the 102F or 111F level of a college foreign language course. American Sign Language is accepted by Old Dominion University to meet the general education requirements in language and culture.
7. Writing Proficiency requirement is satisfied by completion of the following courses with a grade of C (2.0) or better: ENGL 110C, ENGL 211C, and MET 435W.
8. Students are held individually responsible for the information contained in the University catalog. <http://catalog.odu.edu>. Failure to read and comply with University regulations will not exempt students from whatever penalties they may incur.