

Tidewater Community College/Old Dominion University

2018-2019 Catalog ARTICULATION AGREEMENT

Associate of Applied Science, Mechanical Engineering Technology with Transfer General Education Courses to
Bachelor of Science in Engineering Technology -Mechanical Engineering Technology

| Tidewater Community College A.A.S. in Mechanical Engineering Technology | | | | Old Dominion University Equivalency | | | |
|----------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|-----------|
| CHM | 111 | College Chemistry I* | 4 | CHEM | 121N/ 122N | Foundations of Chemistry | 4 |
| ENG | 111 | College Composition I* | 3 | ENGL | 110C | English Composition I | 3 |
| IND | 115 | Materials and Processes of Industry* | 4 | MET | 200 | Manufacturing Processes and Methods | 3 |
| MTH | 161 | PreCalculus I* | 3 | MATH | 162M | Precalculus I | 3 |
| SDV | 101 | Orientation to Engineering and technologies | 1 | UNIV | 100 | University Orientation | 1 |
| ENG | 112 | College Composition II* | 3 | ENGL | 211C | English Composition II | 3 |
| MTH | 162 | PreCalculus II* | 3 | MATH | 163 | Precalculus II | 3 |
| Approved Program Electives | | Take MEC 111, IND 106, and IND 146 or 150* | 9 | STEM 221 Industrial Materials, and STEM Electives (Substitute for ENGN 110 and ENGT 111) | | | 9 |
| CAD | 241 | Parametric Solid Modeling I* | 3 | MET | 240 | Computer Solid Modeling | 3 |
| MEC | 131 | Mechanics I- Statics for Engineering Tech* | 3 | CET | 200 | Statics | 3 |
| PHY | 201 | General College Physics I* | 4 | PHYS | 111N | Introductory General Physics I | 4 |
| Social Science | ELE | Choose one course from ODU's Transfer Guide (http://www.odu.edu/transfer/vccs-transfer-guide.html) in the category of Human Behavior | 3 | HB | 1REQ | Human Behavior Way of Knowing | 3 |
| EGR | 110 | Engineering Graphics* | 3 | MET | 120 | Computer Aided Drafting | 3 |
| MEC | 132 | Mechanics II Strength of Materials* | 3 | CET | 220 | Strength of Materials | 3 |
| MEC | 135 | Mechanics Laboratory | 1 | CET | 345 | Mechanics Laboratory | 1 |
| PHY | 202 | General College Physics II* | 4 | PHYS | 112N | Introductory General Physics II | 4 |
| Humanities Elective | | Choose one course from ODU's Transfer Guide (http://www.odu.edu/transfer/vccs-transfer-guide.html) in any of the following categories: Philosophy and Ethics, Human Creativity, or Literature | 3 | Liberal Arts Courses: Literature, Philosophy and Ethics, or Human Creativity | | | 3 |
| CST | 100 | Principles of Public Speaking* | 3 | COMM | 101R | Public Speaking | 3 |
| MTH | 263 | Calculus I* | 4 | MATH | 211 | Calculus I | 4 |
| Total Credits in AAS degree | | | 64 | Transfer Credits from AAS Degree | | | 64 |
| Additional Required Courses for BS Degree | | | | ODU Equivalency | | | |
| Social Science or Humanities Electives | | Choose two courses from ODU's Transfer Guide (http://www.odu.edu/transfer/vccs-transfer-guide.html) in any of the following categories: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture | 6 | Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture | | | 6 |
| Additional Credits Required | | | 6 | | | | 6 |

| | | Requirements for BS to be Completed at ODU | | |
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| <p>Note: The lower division general education requirements will be met by completion of all courses outlined in this program agreement.</p> <p>To participate in this articulation agreement please visit Old Dominion University's website to complete The Letter of Intent: http://www.odu.edu/transfer/vccs</p> <p>Completion of this articulation agreement does not guarantee admission to Old Dominion University. All students must meet the requirements set by the Office of Admissions or the Guaranteed Admissions Agreement (GAA). Please visit admissions.odu.edu for more information regarding guaranteed admission to Old Dominion University.</p> | MET | 300 | Thermodynamics | 3 |
| | MET | 310 | Dynamics | 3 |
| | MET | 320 | Design of Machine Elements | 3 |
| | EET | 305 | Adv. Technical Analysis | 3 |
| | EET | 350 | Fundamentals of Electrical Technology | 3 |
| | EET | 355 | Electrical Laboratory | 1 |
| | 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 |
| | ENGT | 434 | Intro to Senior Project | 1 |
| | MET | XXX | Senior Electives | 12 |
| | ENGN | 401 | FE Review | 1 |
| | ENGT | 435W | Senior Design Project | 3 |
| | ENMA | 480 | Ethics and Philosophy in Engineering Applications | 3 |
| | **Minor | XXX | | 12 |
| | Credits to be Taken at ODU | | | 61 |
| | SUMMARY | | | |
| Transfer Credits from AAS Degree | | | 64 | |
| Additional Credits Required | | | 6 | |
| Credits to be Taken at ODU | | | 61 | |
| Total Credits | | | 131 | |

*Departmental requirement, student must earn a C or better at TCC to transfer and earn credit at ODU.

**The ODU B.S.M.E.T. degree requires students complete an approved engineering, engineering technology, math or science minor.

 1/10/19
 Signature Date

Dr. Kellie C. Sorey
 Associate Vice President for Academic Affairs
 Tidewater Community College

 1/30/19
 Signature Date

Dr. Brian Payne
 Vice Provost, Academic Affairs
 Old Dominion University