Virginia Western Community College/Old Dominion University

2018-2019 Catalog

ARTICULATION AGREEMENT

Associate of Applied Science in Mechatronics Systems Engineering Technology: Design Engineering Technology Specialization with General Education Courses to Bachelor of Science in Engineering Technology -Mechanical Engineering Technology

| | \sim | inia Western Community College Associate of Applied Science | Old Dominion University Bachelor of Science | | | | |
|--|--------|--|--|---|---------|-------------------------------------|----|
| SDV | 100 | College Success Skills | 1 | UNIV | 100 | University Orientation | 1 |
| SDV | 101 | Orientation to Engineering and Mathematics | 1 | GNRL | 1 ELE | Elective | 1 |
| CAD | 111 | Technical Drafting* | 3 | MET | 120 | Computer Aided Drafting | 3 |
| EGR | 105 | Intro to Problem Solving in Technology* | 1 | ENGN | 1ELE | Electives (Substitute for ENGN | 1 |
| IND | 230 | Applied Quality Control* | 3 | STEM | 2ELE | 110) | 3 |
| CAD | 241 | Parametric Solid Modeling* | 3 | - | | Computer Solid Modeling | 3 |
| MEC | 113 | Materials and Processes of Industry* | 3 | MET | 200 | Manufacturing Proc and Materials | 3 |
| MEC | 119 | Intro to Basic CNC and CAM* | 3 | | | Materials/Processes Technology | 3 |
| MEC | 131 | Mechanics I-Statics for Engineering Tech.* | 3 | CET | 200 | Statics | 3 |
| MEC | 132 | Mechanics II-Strength of Materials for ET* | 3 | CET | 220 | Strength of Materials | 3 |
| MEC | 211 | Machine Design I | 4 | STEM | 323 | Production Technology | 4 |
| CAD | 226 | Computer Aided Machining | 3 | STEM | 2ELE | Elective | 3 |
| CAD | 242 | Parametric Solid Modeling II* | 3 | MET | 240 | Computer Solid Modeling | 3 |
| EGR | 216 | Computer Methods in Engn and Technology* | 3 | ENGN | 2ELE | Elective (Substitute for ENGT 111) | 3 |
| ENG | 111 | College Composition I* | 3 | ENGL | 110C | English Composition | 3 |
| ETR | 113 | DC and AC Fundamentals I | 4 | EET | 110 | Electrical Circuits I | 4 |
| MTH | 167 | Pre-Calculus with Trigonometry* | 5 | MATH | 163 | Precalculus II | 5 |
| MTH | 263 | Calculus I* | 5 | MATH | 211 | Calculus I | 5 |
| ETR | 237 | Industrial Electronics | 4 | ENGN | 2ELE | Elective | 4 |
| SAF | 127 | Industrial Safety | 2 | | ELE | Elective | 2 |
| Humanities Elective Choose one courses from ODU's Transfer Guide (<u>http://www.odu.edu/transfer/vccs-</u> <u>transfer-guide.html</u>) 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 | |
| PHY | 201 | General College Physics I* | 4 | PHYS | 111N | General Physics I | 4 |
| Social Science | | Choose one course from ODU's Transfer Guide (<u>http://www.odu.edu/transfer/vccs-</u> <u>transfer-guide.html</u>) in the category of Human Behavior | 3 | HB | 1REQ | Human Behavior Way of Knowing | 3 |
| | Tot | al Credits for AAS Degree | 70 | Tra | nsfer C | redits from AAS Degree | 70 |
| | | Iditional Required Coursework | | | | ODU Equivalency | |
| ENG | 112 | College Composition II * | 3 | ENGL | 211C | English Composition II | 3 |
| CST | 100 | Principles of Public Speaking (or CST 105)* | 3 | COMM | 101R | Public Speaking | 3 |
| Social Science, Fine Arts or Humanities Electives | | Choose two course from ODU's Transfer Guide (<u>http://www.odu.edu/transfer/vccs-</u> <u>transfer-guide.html</u>) 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 |
| СНМ | 111 | College Chemistry I* | 4 | CHEM 121N/122N Foundations of Chemistry | | 4 | |
| PHY | 202 | General College Physics II* | 4 | PHYS | 112N | General Physics II | 4 |
| | Ad | ditional Credits Required | 20 | | | | 20 |

Note: The lower division general education requirements will be met by completion of all courses outlined in this program agreement.

*Student must earn C or better for course to transfer.

To participate in this articulation agreement please visit Old Dominion University's website to complete The Letter of Intent: <u>http://www.odu.edu/transfer/vccs</u>

Completion of this articulation agreement alone does not guarantee admission to Old Dominion University. All students must meet the requirements set by the Office of Admissions and the Guaranteed Admissions Agreement (GAA). Please visit admissions.odu.edu for more information regarding guaranteed admission to Old Dominion University.

| | Require | ements fo | r BS to be Completed at OD | U | | | |
|----------|---|-----------|---|----|--|--|--|
| | EET | 350 | Fund. of Electrical Tech. | 3 | | | |
| | EET | 355 | Electrical Laboratory | 1 | | | |
| | MET | 300 | Thermodynamics | 3 | | | |
| | MET | 310 | Dynamics | 3 | | | |
| | MET | 320 | Design of Machine Elements | 3 | | | |
| es | CET | 345W | Materials Testing Lab or MET 225 – Materials Science Lab for 1 credit | 2 | | | |
| | EET | 305 | Adv. Technical Analysis | 3 | | | |
| | MET | 330 | Fluid Mechanics | 3 | | | |
| r. | MET | 335W | Fluid Mechanics | 1 | | | |
| | | | Laboratory | | | | |
| ase | MET | 350 | Thermal Applications | 3 | | | |
| | MET 370 | & 386 | Automation and | 4 | | | |
| | | | Controls & Automation | | | | |
| | | 1 | and Controls Lab | | | | |
| | ENMA | 480 | Ethics and Philosophy in | 3 | | | |
| е | | | Engineering | | | | |
| - | | | Applications | | | | |
| | MET | 387 | Power and Energy | 2 | | | |
| d | | 12.1 | Laboratory | | | | |
| | ENGT | 434 | Intro to Senior Project | 1 | | | |
|) | ENGN | 401 | Fund. of Engineering Review | 1 | | | |
| , | ENGT | 435W | Senior Design Project | 3 | | | |
| | Senior Electives | | (grade of C or better required) | 10 | | | |
| | | | (MET) must select from any minor in | 12 | | | |
| | Minor | | College of Engineering and | 12 | | | |
| | | | ogy or the College of Sciences | | | | |
| | Credits to be Taken at ODU | | | | | | |
| | SUMMARY | | | | | | |
| | Transfer Credits from AAS Degree | | | | | | |
| | Additional Credits Required Credits to be Taken at ODU | | | | | | |
| | | | | | | | |
| | Total Credits | | | | | | |

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Dr. Elizabeth Wilmer Vice President of Academic & Student Affairs Virginia Western Community College

2/13/19 Signatufre

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