

Patrick Henry Community College/Old Dominion University


2018-2019 Catalog

ARTICULATION AGREEMENT


Associate of Applied Science in Industrial Electronics Technology with General Education Courses to
Bachelor of Science in Engineering Technology in Electrical Engineering Technology
(Communication Systems, Mechatronics Systems, Embedded Systems, or Power Systems Concentration)

| Patrick Henry Community College Associate of Applied Science | | | | Old Dominion University Equivalency | | | |
|---|-----|---|-----------|---|------|---|-----------|
| ENG | 111 | College Composition I * | 3 | ENGL | 110C | English Composition I | 3 |
| MTH | 161 | Pre-Calculus I (instead of MTH 111)* | 3 | MATH | 162M | Pre-Calculus | 3 |
| SDV | 108 | College Survival Skills | 1 | UNIV | 100 | University Orientation | 1 |
| EGR | 216 | Computer Methods in Engineering* | 3 | ENGN | ELE | Elective (ENGT 111) | 3 |
| ELE | 110 | Home Electric Power | 3 | STEM | 1ELE | Elective | 3 |
| ELE | 113 | Electricity I | 3 | STEM | 241 | Energy Sys. Basic Electricity | 3 |
| ELE | 156 | Electrical Control Systems* | 3 | STEM | 242 | Technological Systems Control (Substitute for EET 225 for agreement only) | 3 |
| ETR | 141 | Electronics I* | 3 | EET | 210 | Electronic Devices and Circuits I | 3 |
| ETR | 156 | Digital Circuits and Microprocessor* | 4 | EET 120 & 125 | | Logic Circuits/Microproc. & Lab | 4 |
| ETR | 150 | Machine Control Using Relay and Prog. Logic* | 3 | ENGN 1ELE & 2ELE (Substitute for MET 426 for the Mechatronics specialization only) | | | 6 |
| ETR | 230 | Mechatronic Process Control* | 3 | | | | |
| ETR | 266 | Microprocessor Applications* | 3 | ENGN | 2ELE | Elective (Substitute for EET 261 for agreement only) | 3 |
| ETR | 298 | Seminar and Project | 1 | ENGN | 2ELE | Elective | 1 |
| CST | 110 | Intro to Communication* | 3 | COMM | 101R | Public Speaking | 3 |
| Social Science Elective | | Choose one courses 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 |
| HLT | 105 | Cardiopulmonary Resuscitation | 1 | HLTH | 1ELE | Elective | 1 |
| INS | 210 | Principals of Instrumentation | 3 | STEM | 2ELE | Elective | 3 |
| IND | 243 | Principals and Applications of Mechatronics | 3 | STEM | 2ELE | Elective | 3 |
| MEC | 140 | Intro to Mechatronics | 3 | ENGN | 1ELE | Elective | 3 |
| MEC | 155 | Mechanisms* | 3 | ENGN | 1ELE | Elective (Substitute for ENGN 110) | 3 |
| MEC | 165 | Applied Hydraulic, Pneumatics and Hydrostatics | 3 | ENGN | 1ELE | Elective | 3 |
| TEC | EEE | Technical Electives | 6 | ENGN | ELE | Electives | 6 |
| 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 |
| Total Credits in AAS degree | | | 67 | Transfer Credits from AAS Degree | | | 67 |
| Additional Required Courses for BS Degree | | | | ODU Equivalency | | | |
| ENG | 112 | College Composition II* | 3 | ENGL | 211C | English Composition | 3 |
| PHY 201-202 | | General College Physics I & II* | 8 | PHYS 111N-112N | | Intro. General Physics I & II* | 8 |
| CHM | 111 | College Chemistry I* | 4 | CHM 121N/122N | | Foundations of Chemistry I | 4 |
| MTH | 162 | Pre-Calculus II* | 3 | MATH | 163 | Pre-Calculus II | 3 |
| MTH | 263 | Calculus I* | 4 | MATH | 211 | Calculus I | 4 |
| ETR 113+114* | | | 7 | EET 110, 200 & 205 | | Electronic Devices, Circuits & Lab | 7 |
| Social Science or 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: Literature, Interpreting the Past, Phil. and Ethics, Human Creativity, or Lang. and Culture | 3 | Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture | | | 3 |
| Additional Credits Required | | | 32 | | | | 32 |

| <p>*Indicates a departmental requirement at ODU. Must earn a C or better at PDCC to transfer and earn credit at ODU. **All 100/200-level required math, science and engineering technology courses must be completed prior to enrollment in any 300-level engineering technology courses with a C or better.</p> <p>***The ODU B.S.E.E.T. degree requires students complete an approved engineering, engineering technology, math or science minor.</p> <p>Note: The lower division general education requirements will be met by completion of all courses outlined in this program agreement.</p> <p>Dominion University's website to complete The Letter of Intent: http://www.odu.edu/transfer/vccs</p> <p>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 or the Guaranteed Admissions Agreement (GAA). Please visit admissions.odu.edu for more information regarding guaranteed admission to Old Dominion University.</p> | Requirements for BS to be Completed at ODU | | | |
|---|---|------|---|--------------|
| | EET | 300 | Advanced Circuit Analysis | 3 |
| | EET | 305 | Advanced Technical Analysis | 3 |
| | EET | 310 | Digital Electronics | 3 |
| | EET | 315 | Digital Electronics Laboratory | 2 |
| | EET | 320 | Microprocessors and Microcontrollers | 3 |
| | EET | 325 | Microprocessor Laboratory | 2 |
| | EET | 330 | Linear Electronics | 3 |
| | EET | 363 | Intro to PLC | 3 |
| | EET | 335 | Linear Electronics Laboratory | 2 |
| | EET | 373 | Instrumentation | 3 |
| | ENGT | 434 | Introduction to Senior Project | 1 |
| | EET | 370T | Energy and the Environment | 3 |
| | ENGT | 435W | Senior Project (Grade of C or better required) | 3 |
| | ENMA | 480 | Ethics and Philosophy in Engineering Applications | 3 |
| | EET Senior Electives | | | 6 |
| | Concentration Specific Courses (If Mechatronics Specialization is chosen, MET 426 will be met with ETR 150 & ETR 230) | | | 6-7 |
| | Minor Courses | | | 12 |
| | Credits to be Taken at ODU | | | 61-62 |
| | SUMMARY | | | |
| Transfer Credits from AAS Degree | | | 67 | |
| Additional Credits Required | | | 32 | |
| Credits to be Taken at ODU | | | 61-62 | |
| Total Credits | | | 160-161 | |

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Signature Date 12/14/14

Dr. Greg Hodges
Vice President of Academic & Student Success Services
Patrick Henry Community College

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Signature Date 1/15/19

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