<table>
<thead>
<tr>
<th>Patrick Henry Community College Associate of Applied Science</th>
<th>Old Dominion University Bachelor of Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 111 College Composition I*</td>
<td>ENGL 110C English Composition 3</td>
</tr>
<tr>
<td>MTH 163 Pre-Calculus I*</td>
<td>MATH 162M Pre-Calculus I 3</td>
</tr>
<tr>
<td>CST 110 Introduction to Communication*</td>
<td>COMM 101R Public Speaking 3</td>
</tr>
<tr>
<td>ECO 201 Principles of Macroeconomics or ECO 202 or PLS 130*</td>
<td>HB 1REQ Human Behavior Way of Knowing 3</td>
</tr>
<tr>
<td>Social Science ELE HIS 101, 102, 121 or 122</td>
<td>INTP 1REQ Interpreting the Past Way of Knowing 3</td>
</tr>
<tr>
<td>ETR 282 &amp; 283 Digital Systems I* and II*</td>
<td>EET 120 &amp; 125 Logic Circuits and Microprocessors and Laboratory 6</td>
</tr>
<tr>
<td>ETR 250 Solid State Circuits</td>
<td>ENGN 2ELE Elective 4</td>
</tr>
<tr>
<td>ETR 267 Microprocessor Applications I</td>
<td>ENGN 2ELE Elective 3</td>
</tr>
<tr>
<td>ELE 216 Industrial Electricity</td>
<td>STEM 2ELE Elective 3</td>
</tr>
<tr>
<td>ELE 143 Programmable Controllers I*</td>
<td>ENGN 1ELE Elective (Substitute for ENGN 110) 3</td>
</tr>
<tr>
<td>ELE 225 Electrical Control Systems</td>
<td>STEM 242 Technological Systems Control 4</td>
</tr>
<tr>
<td>ETR 100 Electronic Problem Solving Lab</td>
<td>ENGN 1ELE Elective 1</td>
</tr>
<tr>
<td>ETR 151 Electronic Circuits and Troubleshooting*</td>
<td>ENGN 1ELE Elective (Substitute for ENGT 111) 2</td>
</tr>
<tr>
<td>INS 210 Principles of Instrumentation</td>
<td>STEM 2ELE Elective 3</td>
</tr>
<tr>
<td>ETR 299 Supervised Study in Industrial Electronics</td>
<td>ENGN 2ELE Elective 1</td>
</tr>
<tr>
<td>SDV 108 College Survival Skills</td>
<td>No Credit Awarded</td>
</tr>
<tr>
<td>ETR 143 &amp; 144 Devices and Applications I* and II*</td>
<td>EET 210, 220 &amp; 225 Electronic Devices and Circuits I, II and Electronics Laboratory 8</td>
</tr>
<tr>
<td>ETR 113 &amp; 114 D.C. and A.C. Fundamentals I* and II*</td>
<td>EET 110, 200 &amp; 205 Electrical Circuits I, II and Circuits Laboratory 8</td>
</tr>
<tr>
<td><strong>Total in AAS degree</strong></td>
<td><strong>Total Transfer for ODU degree</strong></td>
</tr>
<tr>
<td><strong>66</strong></td>
<td><strong>65</strong></td>
</tr>
</tbody>
</table>

### Additional Required Courses

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM ELE 8 ENG 241, 242, 243, 244, 251, 252, 253 or 254*</td>
<td>LIT 1REQ Literature Way of Knowing 3</td>
</tr>
<tr>
<td>ENG 112 College Composition II*</td>
<td>ENGL 211C English Composition 3</td>
</tr>
<tr>
<td>HUM ELE 3 ART 101, 102, 201, 202, CST 130, 231 or MUS 121*</td>
<td>HC 1REQ Human Creativity Way of Knowing 3</td>
</tr>
<tr>
<td>PHY 201 &amp; 202 General College Physics I* and II*</td>
<td>PHYS 111N-112N General Physics I-II 8</td>
</tr>
<tr>
<td>MTH 164 PreCalculus II*</td>
<td>MATH 165 PreCalculus II 3</td>
</tr>
<tr>
<td>MTH 173 Calculus with Analytical Geometry I*</td>
<td>MATH 211 Calculus I 5</td>
</tr>
<tr>
<td>CHM 111 College Chemistry I*</td>
<td>CHEM 121N/122N Foundations of Chemistry I 4</td>
</tr>
</tbody>
</table>

**Total Additional Credits** 29

**Total Credits Earned at PHCC** 95

**Total Credits Transferred to ODU** 94
The lower division general education Language and Culture requirements will be satisfied by completion of all courses outlined in this program agreement.

Philosophy and Ethics, Information Literacy and Research and Impact of Technology are met through the major.

*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: http://uc.odu.edu/advising/transfer/letterofintent.shtml

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.

### Additional Old Dominion University Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 300</td>
<td>Advanced Circuit Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EET 310</td>
<td>Digital Electronics</td>
<td>3</td>
</tr>
<tr>
<td>EET 315</td>
<td>Digital Electronics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EET 360</td>
<td>Electrical Power and Machinery</td>
<td>3</td>
</tr>
<tr>
<td>EET 365W</td>
<td>Electrical Power and Machinery Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EET 305</td>
<td>Advanced Technical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EET 320</td>
<td>Microprocessors and Microcontrollers</td>
<td>3</td>
</tr>
<tr>
<td>EET 325</td>
<td>Microprocessor Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EET 330</td>
<td>Linear Electronics</td>
<td>3</td>
</tr>
<tr>
<td>EET 340</td>
<td>Transmission Networks</td>
<td>3</td>
</tr>
<tr>
<td>EET 335</td>
<td>Linear Electronics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EET 434</td>
<td>Introduction to Senior Project</td>
<td>1</td>
</tr>
<tr>
<td>EET 370T</td>
<td>Energy and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>EET 480W</td>
<td>Senior Project (Grade of C or better required)</td>
<td>3</td>
</tr>
<tr>
<td>ENMA 480</td>
<td>Ethics and Philosophy in Engineering Applications</td>
<td>3</td>
</tr>
<tr>
<td>ENGN 401</td>
<td>Fundamentals of Engineering Review</td>
<td>1</td>
</tr>
<tr>
<td>Senior Electives (EET)</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Minor**

Students must select from any minor in either the College of Engineering and Technology or the College of Sciences.

| Total Credits to be Taken at ODU | 58 |
| Total Transfer Credits from Community College | 94 |
| Total Credits for Degree at ODU | 152 |

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**Academic Affairs**

Dr. Kristen Bishop  
Vice President for Academic & Student Development  
Academic & Student Affairs  
Patrick Henry Community College

Dr. Carol Simpson  
Provost and Vice President, Academic Affairs  
Old Dominion University