

**Blue Ridge Community College/Old Dominion University**

2018-2019 Catalog

ARTICULATION AGREEMENT

Associate of Applied Science in Mechanical Design Technology  
with General Education Courses to

Bachelor of Science in Engineering Technology -Civil Engineering Technology

Blue Ridge Community College Associate of Applied Science				Old Dominion University Equivalency			
CAD	140	Technical Drawing*	3	CET	120	Computer Aided Drafting	3
EGR	120	Introduction to Engineering*	2	ENGN	110	Exploring Engineering and Tech	2
ECO	120	Survey of Economics	3	ECON	200S	Basic Economics	3
ENG	111	College Composition I*	3	ENGL	110C	English Composition	3
MTH	161	Pre-Calculus I*	3	MATH	162M	Pre-Calculus I	3
SDV	100	College Success Skills	1	UNIV	100	University Orientation	1
MEC	111	Materials for Industry*	3	STEM	221	Industrial Materials**	3
CAD	241	Parametric Solid Modeling I*	3	MET	240	Computer Solid Modeling**	3
MTH	162	Pre-Calculus II *	3	MATH	163	Pre-Calculus II	3
MEC	112	Processes of Industry*	3	MET	200	Manufacturing Proc. & Materials**	3
CAD	225	Machine Drawing and Design*	3	STEM	2ELE	Elective	3
CAD	242	Parametric Sold Modeling II*	3	ENGN	2ELE	Elective (Substitute for ENGT 111)	3
EGR	130	Statics and Strengths of Materials for Engineering Technology*	5	CET 200 & 220		Statics and Strength of Materials	5
PHY	201	General College Physics I*	4	PHYS	111N	General College Physics I	4
Technical Elective		MTH 263 – Calculus I*	4	MATH	211	Calculus I	4
Social Science Elective		Choose one course from ODU’s Transfer Guide ( <a href="http://www.odu.edu/transfer/vccs-transfer-guide.html">http://www.odu.edu/transfer/vccs-transfer-guide.html</a> ) in the category of Interpreting the Past	3	INTP	1REQ	Interpreting the Past Way of Knowing	3
EGR	245	Engineering Mechanics – Dynamics*	3	ME	205	Dynamics**	3
EGR	247	Mechanics of Materials Laboratory*	1	MET	225	Materials Testing Laboratory (substitute for CET 345)	1
HLT/PED	ELE	Health or Physical Education	2	HLTH/PE ELE		Elective	2
Literature/ Humanities/ Fine Arts Elective		Choose one course from ODU’s Transfer Guide ( <a href="http://www.odu.edu/transfer/vccs-transfer-guide.html">http://www.odu.edu/transfer/vccs-transfer-guide.html</a> ) in any of the following categories: Philosophy and Ethics, Human Creativity, or Literature	3	Philosophy and Ethics, Human Creativity, or Literature Way of Knowing			3
MEC	211	Machine Design I*	4	STEM	2ELE	Elective**	4
EGR	285	Capstone Project*	1	ENGN	2ELE	Elective**	1
PHY	202	General College Physics II*	4	PHYS	112N	General Physics II	4
<b>Total Credits in AAS degree</b>			<b>67</b>	<b>Transfer Credits from AAS Degree</b>			<b>67</b>
<b>Additional Required Courses for BS Degree</b>				<b>ODU Equivalency</b>			
Social Science or Humanities Elective		Choose one courses from ODU’s Transfer Guide ( <a href="http://www.odu.edu/transfer/vccs-transfer-guide.html">http://www.odu.edu/transfer/vccs-transfer-guide.html</a> ) in any of the following categories: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture	3	Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture			3
CST	110	Introduction to Speech Communication*	3	COMM	101R	Public Speaking	3
ENG	112	College Composition II*	3	ENGL	211C	English Composition	3
CHM	111	College Chemistry I*	4	CHEM 121/122N		Foundations of Chemistry	4
<b>Additional Credits Required</b>			<b>13</b>				<b>13</b>

				<b>Requirements for BS to be Completed at ODU</b>			
<p><b>Note: The lower division general education requirements will be met by completion of all courses outlined in this program agreement.</b></p> <p><b>*Student must earn C or better for course to transfer.</b></p> <p><b>To participate in this articulation agreement please visit Old Dominion University's website to complete The Letter of Intent: <a href="http://www.odu.edu/transfer/vccs">http://www.odu.edu/transfer/vccs</a></b></p> <p><b>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 <a href="http://admissions.odu.edu">admissions.odu.edu</a> for more information regarding guaranteed admission to Old Dominion University.</b></p> <p><b>**MEC 111, CAD 241, MEC 112, EGR 245, MEC 211, and EGR 285 will be used to fulfill 2 of the 5 CET Electives required.</b></p>				CET	205	Principles of Surveying	3
				CET	210	Fund. of Building Construction	3
				CET	301	Structural Analysis	3
				CET	330	Fluid Mechanics	3
				CET	340	Soils and Foundations	3
				CET	341W	Soils Testing Lab (grade of C or better required)	2
				CET	355	Sustainable Building Practices	3
				CET	260/360	Plans and Specifications	3
				ENGT	434	Intro to Senior Project	1
				CET	440	Contract Documents	3
				EET	305	Advanced Technical Analysis	3
				MET	335W	Fluid Mechanics Lab (grade of C or better required)	1
				ENMA	480	Ethics and Philosophy in Engineering Applications	3
				ENMA	302	Engineering Economics	3
				ENGN	401	Fundamentals of Engineering Review	1
				CET 410 or 450		Reinforced Concrete Design or Structural Steel Design	3
				ENGT	435W	Senior Design Project (grade of C or better required)	3
				EET	370T	Energy and the Environment	3
				CET	ELE	Electives**	9
				Upper Division		General Education (one or more additional courses will be required to complete a minor)***	6
<b>Credits to be Taken at ODU</b>			<b>62</b>				
<b>SUMMARY</b>				<b>Transfer Credits from AAS Degree</b>			<b>67</b>
				<b>Additional Credits Required</b>			<b>13</b>
				<b>Credits to be Taken at ODU</b>			<b>62</b>
				<b>Total Credits</b>			<b>142</b>

\*\*\*Students are encouraged to complete a minor in Engineering Management, Business Management, Environmental Health and Safety or Mechanical Engineering Technology.

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Signature Date

Dr. Robert Young  
Vice President of Instruction and Student Services  
Blue Ridge Community College

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Signature Date

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