

# 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

Virginia 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	1ELE	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 110)	1
IND	230	Applied Quality Control*	3	STEM	2ELE		3
CAD	241	Parametric Solid Modeling*	3	MET	240	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	STEM	231	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 ( <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	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 ( <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 Human Behavior	3	HB	1REQ	Human Behavior Way of Knowing	3
<b>Total Credits for AAS Degree</b>			<b>70</b>	<b>Transfer Credits from AAS Degree</b>			<b>70</b>
<b>Additional Required Coursework</b>				<b>ODU Equivalency</b>			
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 ( <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	6	Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture			6
CHM	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
<b>Additional Credits Required</b>			<b>20</b>				<b>20</b>

Requirements for BS to be Completed at ODU			
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
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
MET	335W	Fluid Mechanics Laboratory	1
MET	350	Thermal Applications	3
MET 370 & 386		Automation and Controls & Automation and Controls Lab	4
ENMA	480	Ethics and Philosophy in Engineering Applications	3
MET	387	Power and Energy Laboratory	2
ENGT	434	Intro to Senior Project	1
ENGN	401	Fund. of Engineering Review	1
ENGT	435W	Senior Design Project (grade of C or better required)	3
Senior Electives		(MET)	12
Minor	Students must select from any minor in either the College of Engineering and Technology or the College of Sciences		12
<b>Credits to be Taken at ODU</b>			<b>63</b>
<b>SUMMARY</b>			
<b>Transfer Credits from AAS Degree</b>			<b>70</b>
<b>Additional Credits Required</b>			<b>20</b>
<b>Credits to be Taken at ODU</b>			<b>63</b>
<b>Total Credits</b>			<b>153</b>

**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: <http://www.odu.edu/transfer/vccs>**

**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](http://admissions.odu.edu) for more information regarding guaranteed admission to Old Dominion University.**

*Elizabeth Wilmer* 2/5/19  
 Signature Date

*Brian Payne* 2/13/19  
 Signature Date

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

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