

**John Tyler Community College/Old Dominion University**

2018-2019 Catalog

**ARTICULATION AGREEMENT**


Associate of Applied Science in Engineering Technology – Mechanical Engineering Technology,  
Mechatronics Specialization with General Education Courses to  
Bachelor of Science in Engineering Technology -Mechanical Engineering Technology

John Tyler Community College Associate of Applied Science				Old Dominion University Equivalency			
CAD	151	Engineering Drawing Fundamentals I*	3	MET	120	Computer Aided Drafting	3
ELE	150	A.C. and D.C. Circuit Fundamentals	4	STEM	241	Energy Sys-Basic Electricity	4
ENG	111	College Composition I*	3	ENGL	110C	English Composition	3
MEC	113	Materials and Processes of Industry*	3	STEM	231	Materials/Processes Tech.	3
MTH	162	Pre-Calculus II* (Substitute with MTH 111)	3	MATH	163	Precalculus II	3
SDV	101	Orientation to STEM	1	UNIV	100	University Orientation	1
MEC	230	Mechatronics Process Control	3	ENGN	1ELE	Elective (Sub. for ENGT 111)	3
ITE	115	Intro to Computer App. and Concepts	3	CS	1ELE	Elective	3
ELE	159	Electrical Motors	3	STEM	1ELE	Elective	3
MEC	101-102	Intro to Engineering Technology I-II*	4	ENGN	ELE	Elective (Sub. for ENGN 110)	4
CAD	241	Parametric Solid Modeling I*	3	MET	240	Computers Solid Modeling	3
ELE	239	Programmable Controllers	3	STEM	2ELE	Elective	3
MEC	140	Introduction to Mechatronics	3	ENGN	1ELE	Elective	3
MEC	211	Machine Design I	4	STEM	320	Manufacturing/Construct. Tech.	4
SOC	200	Principles of Sociology	3	SOC	201S	Intro to Sociology	3
ELE	240	Adv. Programmable Logic Controllers	3	STEM	242	Technological Systems Control	3
MEC	161	Basic Fluid Mechanics*	3	MET	200	Manuf. Processes & Materials	3
MEC	270	Computations for Engn. Technology	3	ENGN	2ELE	Elective	3
MAC	131	Machine Lab I	2	STEM	1ELE	Elective	2
CHM	111	College Chemistry I*	4	CHEM 121N/122N		Foundations of Chemistry I	4
ART 101, 102, or PHI 220		History and Appreciation of Art I, History and Appreciation of Art II, or Ethics	3	HC 1REQ or PHIL 230E		Human Creativity or Ethics	3
<b>Total Credits in AAS Degree</b>			<b>64</b>	<b>Transfer Credits from AAS Degree</b>			<b>64</b>
<b>Additional Required Courses for BS Degree</b>				<b>ODU Equivalency</b>			
MEC	131	Mechanics I – Statics for Engineering Technology*	3	CET	200	Statics	3
MEC	132	Mechanics II – Strengths of Materials for Engineering Technology*	3	CET	220	Strength of Materials	3
ENG	112	College Composition II*	3	ENGL	211C	English Composition	3
Social Science or Humanities Electives		Choose two 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	6	Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture			6
Communication Elective		CST 100 - Public Speaking* or CST 110 – Introduction to Communication*	3	COMM	101R	Public Speaking	3
PHY 201-202		General College Physics I*and II*	8	PHYS	111N/112N	General Physics I and II	8
MTH	263	Calculus I*	4	MATH	211	Calculus I	4
<b>Additional Credits Required</b>			<b>30</b>				<b>30</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:</b>  <a href="http://www.odu.edu/transfer/vccs">http://www.odu.edu/transfer/vccs</a></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 admissions.odu.edu for more information regarding guaranteed admission to Old Dominion University.</b></p>				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
				MET 225 or CET 345W		Materials Science Lab (on campus-1cr) or Materials Testing Lab (online-2cr)	1/2
				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>62-63</b>
				<b>Transfer Credits from AAS Degree</b>			
<b>Additional Credits Required</b>				<b>30</b>			
<b>Credits to be Taken at ODU</b>			<b>62-63</b>				
<b>Total Credits</b>			<b>156-157</b>				
<b>SUMMARY</b>							

  
 \_\_\_\_\_  
 Signature 1/25/19  
Date

Edward E. Raspiller, Ed.D.  
 President  
 John Tyler Community College

  
 \_\_\_\_\_  
 Signature 2/13/19  
Date

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