

John Tyler Community College/Old Dominion University

2017-2018 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	MET	200	Man. Processes and Materials	3
MTH	163	Pre-calculus I* (Substitute with MTH 103)	3	MATH	162M	Pre-calculus I	3
MTH	164	Pre-Calculus II* (Substitute with MTH 104)	3	MATH	163	Pre-Calculus II	3
SDV	100	College Success Skills	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
HLT/PED ELE		Health/Physical Education Elective	1	HLTH/PE ELE		Elective	1
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 211-212		Machine Design I and II	8	STEM 323 & STEM 2ELE		Production Technology and Elective	8
Social Science ELE		ECO 120, 201, 202, GEO 200, 210, PLS 135, 241, PSY 200, 230, 235, SOC 200 or 211	3	HB	1REQ	Human Behavior Way of Knowing	3
ELE	240	Adv. Programmable Logic Controllers	3	STEM	242	Technological Systems Control	3
MEC	266	Applications of Fluid Mechanics	3	ENGN	2ELE	Elective	3
MEC	270	Computations for Engn. Technology	3	ENGN	2ELE	Elective	3
Humanities Elective		ENG 241, 242, 251, PHI 101, 102, 111, 220, or REL 230, CST 130, HUM 201, MUS 121, or Foreign Language Level I or II	3	Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture			3
Total Credits in AAS Degree			66	Transfer Credits from AAS Degree			66
Additional Required Courses for BS Degree				ODU Equivalency			
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 Elective		ENG 241, 242, 251, , HIS 101, 102, 111, 112, 121, or 122, PHI 101, 111, 220, or REL 230, CST 130, HUM 201, MUS 121 or Foreign Language Level I or II	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
MEC 154, 226 or 254		Mech. Maintenance I*, Practical Metallurgy* or Mech. Maintenance II*	3	STEM 221 or 231		Industrial Materials or Materials and Proc. Tech.	3
CHM	111	College Chemistry I*	4	CHM 121N/122N		Foundations of Chemistry I	4
PHY 201-202		General College Physics I* and II*	8	PHYS 111N/112N		General Physics I and II	8
MTH	173	Calculus with Analytical Geom. I*	5	MATH	211	Calculus I	5
Additional Credits Required			38				38

				Requirements for BS to be completed at ODU			
<p>Note: The lower division general education requirements will be met by completion of all courses outlined in this program agreement.</p> <p>*Student must earn C or better for course to transfer.</p> <p>To participate in this articulation agreement please visit Old Dominion University's website to complete The Letter of Intent: https://www.odu.edu/newtransfer/letter-of-intent</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 and the Guaranteed Admissions Agreement (GAA). Please visit admissions.odu.edu for more information regarding guaranteed admission to Old Dominion University.</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
				Credits to be Taken at ODU			62-63
				Transfer Credits from AAS Degree			66
Additional Credits Required			38				
Credits to be Taken at ODU			62-63				
Total Credits			166-167				
SUMMARY							

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Signature *12/18/17* *Date*

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

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Signature *1/18/18* *Date*

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