

Virginia Western Community College/Old Dominion University

2017-2018 Catalog

ARTICULATION AGREEMENT

Associate of Applied Science in Mechatronics Systems Engineering Technology 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 Equivalency			
CAD	111	Technical Drafting*	3	MET	120	Computer Aided Drafting	3
EGR	216	Computer Methods in Eng. & 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
SDV	100	College Success Skills	1	UNIV	100	University Orientation	1
SDV	101	Orientation to Engineering and Mathematics	1	GNRL	1ELE	Elective	1
MTH	167	Pre-Calculus with Trigonometry*	5	MATH	163	Pre-Calculus II	5
EGR	105	Intro to Problem Solving in Technology*	1	ENGN	1ELE	Elective (substitute for ENGN 110)	1
CAD	241	Parametric Solid Modeling*	3	MET	240	Computer Solid Modeling	3
MEC	113	Materials and Processes of Industry*	3	MET	200	Manufacturing Processes and Materials	3
MEC	131	Mechanics I-Statics for Engr. Technology*	3	CET	200	Statics	3
MEC	162	Applied Hydraulics and Pneumatics	3	ENGN	1ELE	Elective	3
MTH	263	Calculus I*	4	MATH	211	Calculus I	4
ETR	237	Industrial Electronics I	4	ENGN	2ELE	Elective	4
IND	250	Intro to Basic Computer Integrated Manuf.	3	STEM	2ELE	Elective	3
MEC	132	Mechanics II-Strength of Materials*	3	CET	220	Strength of Materials	3
PHY	201	General College Physics I*	4	PHYS	111N	General Physics I	4
HIS 111 or 121		History of World Civilization I or United States History I	3	INTP IREQ or HIST 104H		Interp. the Past Way of Knowing or Interp. the American Past	3
ART 101, MUS 122, or PHI 220		History and Appreciation Of Art I, Music Appreciation II, or Ethics	3	HC IREQ, MUSC 264A, or PHIL 230E		Human Creativity Way of Knowing, Music in History and Culture, Intro to Ethics	3
IND	230	Applied Quality Control	3	STEM	2ELE	Elective	3
IND	251	Automated Manufacturing Systems I	4	STEM	2ELE	Elective	4
IND	290	Coordinated Internship II	3	--	--	No credit awarded	0
SAF	127	Industrial Safety	2	--	--	No credit awarded	0
Total Credits in AAS Degree			66	Transfer Credits from AAS Degree			61
Additional Required Courses for BS Degree				ODU Equivalency			
ENG	112	College Composition II *	3	ENGL	211	English Composition	3
CST	110	Prin. of Public Speaking (or CST 105)*	3	COM M	101R	Public Speaking	3
CHM	111	College Chemistry I*	4	CHEM 121N/122N		Foundations of Chemistry I	4
PHY	202	General College Physics II*	4	PHYS	112N	General Physics II	4
Social Science or Humanities Electives		ENG 241, 242, 243, 244, HIS 111, 112, 121, or 122, PHI 101, 220, or REL 230, CST 130, HUM 201, 202, MUS 121 or 122, 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
Social Science	ELE	ECO 201, 202, GEO 200, 210, PLS 211, 212, PSY 200, 230, 235 or SOC 200	3	HB	1REQ	Human Behavior Way of Knowing	3
EGR	123	Intro to Engineering Design*	2	STEM	231	Materials/Processes Technology	2
Additional Credits Required			22				22

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
Credits to be Taken at ODU			63
SUMMARY			
Transfer Credits from AAS Degree			61
Additional Credits Required			22
Credits to be Taken at ODU			63
Total Credits			146

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:

<https://www.odu.edu/newtransfer/letter-of-intent>

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.

Elizabeth Wilmer 2/7/18
Signature Date

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

Brian Payne 2/26/18
Signature Date

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