

**Northern Virginia Community College/Old Dominion University**

2016-2017 Catalog

**ARTICULATION AGREEMENT**

Associate of Applied Science in Engineering Technology  
(Mechanical Engineering Technology Specialization)

with General Education Courses to  
Bachelor of Science in Mechanical Engineering Technology

Northern Virginia Community College Associate of Applied Science				Old Dominion University Equivalency			
ENG	111	College Composition I*	3	ENGL	110C	English Composition	3
CST 100 or 110		Principles of Public Speaking* or Introduction to Communication*	3	COMM	101R	Public Speaking	3
MTH	166	Precalculus with Trigonometry*	5	MATH	166	Precalculus I & II	5
Social Science Elective		HIS 101, 102, 111, 112, 121 or 122*	3	INTP	1REQ	Interpret. the Past Way of Knowing	3
Humanities / Fine Arts Elective		ART 201, 202, CST 130, 141, HUM 201, 202, 260, MUS 121 or 122*	3	HC	1REQ	Human Creativity Way of Knowing	3
EGR	115	Engineering Graphics*	2	ENGN	1ELE	Elective (Substitute for ENGN 110)	2
Technical Elective		CAD 238* or CAD 241*	3-4	MET	240	Computer Solid Modeling	3-4
EGR	130	Statics & Strength of Materials*	5	CET 200 & 220		Statics and Strength of Materials	5
CAD	140	Technical Drawing	3	STEM	1ELE	Elective	3
CAD 201-202		Computer Aided Drafting and Design I*- II	8	ENGN	2ELE	Elective (Substitute for ENGT 111)	8
MEC	112	Processes of Industry*	3	MET	200	Manufacturing Process & Methods	3
MEC	265	Fluid Mechanics	3	ENGN	2ELE	Elective	3
PHY 201-202		General College Physics I and II*	8	PHYS	111N-112N	General Physics I and II	8
MEC	118	Automated Manufacturing Technology*	3	ENGN	1ELE	Elective (Substitute for STEM 221/231)	3
CSC	110	Intro. to Computing or ETR 106 – Basic Programming Applied to Electrical/Electronic Calculations	3	CS	1ELE	Elective	3
CAD	233	Computer Aided Drafting*	3	MET	120	Computer Aided Drafting	3
PED	116	Lifetime Fitness and Wellness	1	PE	1ELE	Elective	1
PED/RPK	ELE	Elective	1	PE/RTS	ELE	Elective	1
SDV	100	College Success Skills	1	UNIV	100	University Orientation	1
<b>Total Credits in AAS Degree</b>			<b>66</b>	<b>Transfer Credits from AAS Degree</b>			<b>66</b>
Additional Required Courses for BS Degree				ODU Equivalency			
Social/ Behavioral Sciences		ECO 120, 201, 202, GEO 200, 210, PLS 120, 135, 140, 211, 212, 241, 242, PSY 200, 201, 202, 230, 231, 232, 235, SOC 200, 201, 202, 255 or HUM 210*	3	HB	1REQ	Human Behavior Way of Knowing	3
ENG	112	College Composition II*	3	ENGL	211C	English Composition II	3
MTH	173	Calculus with Analytic Geometry I*	5	MATH	211	Calculus I	5
HUM	ELE	ENG 236, 237, 241, 242, 243, 244, 245, 246, 251, 252, 253, 254, 255, 256, or 267*	3	LIT	1REQ	Literature Way of Knowing	3
CHM	111	General Chemistry I*	4	CHEM	121N/122N	Found. of Chemistry I	4
<b>Additional Credits Required</b>			<b>18</b>				<b>18</b>

<p>The lower division general education Language and Culture requirements will be satisfied by completion of all courses outlined in this program agreement.</p> <p>Philosophy and Ethics, Information Literacy and Research and Impact of Technology are met through the major.</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:  <a href="https://www.odu.edu/newtransfer/letter-of-intent">https://www.odu.edu/newtransfer/letter-of-intent</a></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 or 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.</p>	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>66</b>	
<b>Additional Credits Required</b>			<b>18</b>	
<b>Credits to be Taken at ODU</b>			<b>63</b>	
<b>Total Credits</b>			<b>147</b>	

All 100/200-level required math, science and engineering technology courses must be completed with a C or better prior to enrollment in any 300-level engineering technology courses.

  
 Signature \_\_\_\_\_ Date 12-19-16

Dr. Sharon Robertson  
 Associate Vice President, Academic Services  
 Northern Virginia Community College

  
 Signature \_\_\_\_\_ Date 1/11/17

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