

**Thomas Nelson Community College/Old Dominion University**

2018-2019 Catalog

**ARTICULATION AGREEMENT**

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

<b>Thomas Nelson Community College Associate of Applied Science</b>				<b>Old Dominion University Equivalency</b>			
ENG	111	College Composition I*	3	ENGL	110C	English Composition	3
ENG 112 or 115		College Composition II* or Technical Writing*	3	ENGL 211C or 231C		English Composition II or Intro to Technical Writing	3
Humanities Elective		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 any of the following categories: Philosophy and Ethics, Human Creativity, or Literature	3	Liberal Arts Courses: Literature, Philosophy and Ethics, Human Creativity, or Language and Culture			3
Social Science	ELE	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 Interpreting the Past	3	INTP	1REQ	Interpreting the Past Way of Knowing	3
ECO	201	Principles of Macroeconomics I	3	ECON	201S	Principles of Macroeconomics	3
MTH	161	PreCalculus I*	3	MATH	162M	Precalculus I	3
MTH	162	PreCalculus II*	3	MATH	163	Precalculus II	3
PHY 201 & 202		General College Physics I* and II*	8	PHYS 111N & 112N		General Physics I and II	8
MEC	131	Mechanics I – Statics for Engineering Tech*	3	CET	200	Statics	3
CHM	111	College Chemistry I*	4	CHEM 121N/122N		Foundations of Chemistry Lecture & Lab	4
MEC	132	Mechanics II – Strength of Materials for Engineering Technology *	3	CET	220	Strength of Materials	3
MEC 165 or 220		Applied Hydraulics/Pneumatics* or Intro. of Polym. and Composite Mat.*	3	STEM	2ELE	Elective (Substitute for STEM 231)	3
CAD	151	Engineering Drawing Fundamentals I*	3	MET	120	Computer-Aided Drafting	3
CAD 211 or 241		Advanced Tech. Drafting I* or Parametric Solid Modeling*	3	MET	240	Computer Solid Modeling	3
MEC	113	Materials and Processes of Industry*	3	MET	200	Manuf. Processes & Methods	3
HLT/PED ELE		Health/Physical Education Elective	1	HLTH/PE ELE		Elective	1
MEC	133	Mechanics III – Dynamics for Engineering Technology*	2	ENGN	1ELE	Elective (Substitute for ENGT 111)	2
SDV	100	College Success Skills	1	UNIV	100	University Orientation	1
MEC	100	Intro. to Engineering Technology*	2	ENGN	1ELE	Engineering Elective (Substitute for ENGN 110)	2
MTH	263	Calculus I*	4	MATH	211	Calculus I	4
Approved Electives		Electives may be selected from MEC, CAD, IND, or ETR 104	6	ENGN	ELE	Electives	6
<b>Total Credits for AAS Degree</b>			<b>67</b>	<b>Transfer Credits from AAS Degree</b>			<b>67</b>
<b>Additional Required Courses for BS Degree</b>				<b>ODU Equivalency</b>			
CST	100	Principles of Public Speaking* or Intro to Communication*	3	COMM	101R	Public Speaking	3
Social Science, Fine Arts or Humanities Elective		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 any of the following categories: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture	3	Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture			3
<b>Additional Credits Required</b>			<b>6</b>				<b>6</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 or the Guaranteed Admissions Agreement (GAA). Please visit [admissions.odu.edu](http://admissions.odu.edu) for more information regarding guaranteed admission to Old Dominion University.**

**Requirements for BS to be taken at ODU**

EET	305	Adv. Technical Analysis	3
EET	350	Fund. of Electrical Tech.	3
EET	355	Electrical Laboratory	1
MET 225 (on-campus) or CET 345W (online)		Material Science Laboratory or Material Testing Lab	1 or 2
MET	300	Thermodynamics	3
MET	310	Dynamics	3
MET	320	Design of Machine Elements	3
MET	330	Fluid Mechanics	3
MET	335W	Fluid Mechanics Laboratory	1
MET	350	Thermal Applications	3
MET	370	Automation & Controls	3
MET	386	Automation & Controls Laboratory	1
MET	387	Power & Energy Laboratory	2
ENGT	434	Intro to Senior Design	1
MET	XXX	Senior Electives	12
ENGT	435W	Senior Design Project	3
ENGN	401	Fund. of Engineering Review	1
ENMA	480	Ethics and Philosophy in Engineering Applications	3
***Minor	XXX		12
<b>Credits to be Taken at ODU</b>			<b>62-63</b>
<b>SUMMARY</b>			
<b>Transfer Credits from AAS Degree</b>			<b>67</b>
<b>Additional Credits Required</b>			<b>6</b>
<b>Credits to be Taken at ODU</b>			<b>62-63</b>
<b>Total Credits</b>			<b>135-136</b>

*S. English*  
Signature

10/31/19  
Date

*B. Payne*  
Signature

11/20/19  
Date

Dr. Susan English  
Vice President for Academic Affairs  
Thomas Nelson Community College

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