

Thomas Nelson Community College/Old Dominion University


2016-2017 Catalog

ARTICULATION AGREEMENT

Associate of Applied Science in Computer-Aided Drafting and Design Technology
with General Education Courses to
Bachelor of Science in Mechanical Engineering Technology

Thomas Nelson Community College Associate of Applied Science				Old Dominion University Equivalency			
ENG	111	College Composition I*	3	ENGL	110C	English Composition	3
Technical Elective		PHY 201- General College Physics I*	4	PHYS	111N	General College Physics I	4
Social Science	ELE	HIS 101, 102, 111, 112, 121 or 122*	3	INTP	1REQ	Interpreting the Past Way of Knowing	3
Technical Elective		PHY 202- General College Physics II*	4	PHYS	112N	General College Physics II	4
HUM	ELE	ENG 241, 242, 243, 244, 251, 252, 253 or 254*	3	LIT	1REQ	Literature Way of Knowing	3
ENG	112	College Composition II (Substitute for ENG 115)*	3	ENGL	211C	English Composition	3
Technical Elective		MEC 161 - Basic Fluid Mechanics – Hydraulics / Pneumatics* or MEC 220 - Introduction of Polymeric and Composite Materials*	3	STEM	231	Industrial Materials	3
MEC	132	Mechanics II Strength of Materials*	3	CET	220	Strength of Materials	3
MTH 163-164		Pre-Calculus I* & II*	6	MATH 162M & 163		Pre-Calculus I & II	6
CAD	128	Geometric Dimensioning and Tolerancing	4	STEM	1ELE	Elective	4
MEC	113	Materials and Processes of Industry*	3	MET	200	Manufacturing Processes & Methods	3
CAD	202	Computer Aided Drafting and Design II*	4	STEM	ELE	elective	4
MEC	131	Mechanics I – Statics for Engineering Tech*	3	CET	200	Statics	3
CAD	241	Parametric Solid Modeling I*	4	MET	240	Computer Solid Modeling	4
SDV	100	College Success Skills	1	UNIV	100	University Orientation	1
CAD	151	Engineering Drawing Fundamentals I	3	MET	120	Computer-Aided Drafting	3
HLT/PED ELE		Elective	2	HLTH/PE ELE		Health or PE Elective	2
CAD	152	Engineering Drawing Fundamentals II	3	STEM	ELE	Elective	3
CAD	211	Advanced Technical Drafting I*	3	STEM	2ELE	Elective (Substitute for ENGT 111)	3
CAD	280	Design Capstone Project	3	GNRL	2ELE	Elective	3
MEC	133	Mechanics III: Dynamics for Engineering Technology*	2	ENGN	2ELE	Elective (Substitute for ENGN 110)	2
Total Credits for AAS Degree			67	Transfer Credits from AAS Degree			67
Additional Required Courses for BS Degree				ODU Equivalency			
CST	100	Principles of Public Speaking*	3	COMM	101R	Public Speaking	3
Social Science	ELE	ECO 120, 201, 202, GEO 200, 210, PLS 135, 241, PSY 200, 230, 231, 232, 235 or SOC 200, 211 or 212*	3	HB	1REQ	Human Behavior Way of Knowing	3
HUM	ELE	ART 101, 102, 106, CST 151, 152, HUM 201, 202, MUS 121 or 122*	3	HC	1REQ	Human Creativity Way of Knowing	3
CHM	111	College Chemistry I*	4	CHEM 121/122N		Foundations of Chemistry	4
MTH	173	Calculus with Analytic Geometry I*	5	MATH	211	Calculus I	5
Additional Credits Required			18				18

<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>*Indicates lower-division departmental requirement at ODU. Must earn C or better for 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 or the Guaranteed Admissions Agreement (GAA). Please visit admissions.odu.edu for more information regarding guaranteed admission to Old Dominion University.</p>	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 Materials 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
Credits to be Taken at ODU			62-63	
Transfer Credits from AAS Degree				67
Additional Credits Required				18
Credits to be Taken at ODU				62-63
Total Credits				147-148
SUMMARY				

 5/3/17
 Signature Date

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

 5/11/17
 Signature Date

Dr. Brian Payne
 Vice Provost for Graduate and Undergraduate
 Academic Programs
 Old Dominion University