

Thomas Nelson Community College/Old Dominion University

2017-2018 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	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
Technical Elective		PHY 202- General College Physics II*	4	PHYS	112N	General College Physics II	4
HUM	ELE	ENG 125, 241, 242, 243, 244, 251, 252, or 253, HIS 101, 102, 111, 112,121, or 122, PHI 101, 102, 111, 112, 220, REL 231, 232 or 237 or ART 101, 102, 106, CST 151, 152, HUM 201, 202, MUS 121 or 122, or Foreign Lang. Level I or II	3	Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture			3
ENG	112	College Composition II (Substitute for ENG 115)*	3	ENGL	211C	English Composition	3
Technical Elective		MEC 161 - Basic Fluid Mech. – Hydraulics / Pneumatics* or MEC 220 – Intro. 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	Manuf. Processes &Methods	3
CAD	202	Computer Aided Drafting and Design II*	4	MET	120	Computer-Aided Drafting	4
MEC	131	Mechanics I – Statics for Engin. 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	ENGN	ELE	Elective	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 Engn. Tech.*	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	Prin. of Public Speaking* or Intro to Communications*	3	COMM	101R	Public Speaking	3
HUM	ELE	ENG 125, 241, 242, 243, 244, 251, 252, or 253, HIS 101, 102, 111, 112,121, or 122, PHI 101, 102, 111, 112, 220, REL 231, 232 or 237 or ART 101, 102, 106, CST 151, 152, HUM 201, 202, MUS 121 or 122, or Foreign Lang. Level I or II	6	Liberal Arts Courses: Literature, Interpreting the Past, Philosophy and Ethics, Human Creativity, or Language and Culture			6
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				

 3/19/18
 Signature Date

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

 3/29/18
 Signature Date

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