

Tidewater Community College/Old Dominion University

2017-2018 Catalog

ARTICULATION AGREEMENT

Associate of Applied Science, Computer-Aided Drafting and Design Technology
with Transfer General Education Courses to

Bachelor of Science in Engineering Technology (Mechanical Engineering Technology)

Tidewater Community College A.A.S. in Computer-Aided Drafting and Design Technology				Old Dominion University Equivalency			
CAD	151	Engineering Drawing Fundamentals I*	3	ENGN	1ELE	(Substitute for ENGN 110)	3
CAD	201	Computer Aided Drafting and Design I*	4	MET	120	Computer Aided Drafting	4
ENG	111	College Composition I*	3	ENGL	110C	English Composition I	3
MTH	163	Precalculus I*	3	MATH	162M	Precalculus I	3
SDV	100	College Success Skills	1	UNIV	100	University Orientation	1
MEC	111	Materials for Industry*	3	STEM	221	Industrial Materials	3
CAD	202	Computer Aided Drafting and Design II*	4	ENGN	ELE	(Substitute for ENGT 111)	4
CAD	152	Engineering Drawing Fundamentals II	3	STEM	ELE	Elective	3
MTH	164	Precalculus II*	3	MATH	163	Precalculus II	3
Approved Technical	ELE	Approved Technical Elective from TCC catalog	3	ENGN	ELE	Elective	3
HLT/ PED	ELE	Elective	2	HLTH/ PE	ELE	Health or PE Elective	2
CAD	211	Advanced Technical Drafting I	3	STEM	2ELE	Elective	3
CAD	241	Parametric Solid Modeling I*	3	MET	240	Computer Solid Modeling	3
MEC	131	Mechanics I- Statics for Engineering Tech*	3	CET	200	Statics	3
PHY	201	General College Physics I*	4	PHYS	111N	Introductory General Physics I	4
Social Science	ELE	ECO 120, 201, 202, GEO 210, PLS 211, 212, 241, PSY 200, 201, 230, 231, 232, 235, SOC 200, 201, 202, or 211	3	HB	1REQ	Human Behavior Way of Knowing	3
Social Science	ELE	Choose one: HIS 101, 102, 111, 112, 121 or 122	3	INTP	1REQ	Interpreting the Past Way of Knowing	3
CAD	280	Design Capstone Project	3	STEM	2ELE	STEM Elective	3
MEC	132	Mechanics II Strength of Materials*	3	CET	220	Strength of Materials	3
PHY	202	General College Physics II*	4	PHYS	112N	Introductory General Physics II	4
Humanities Elective		ENG 125, 241, 242, 243, 251, 252, or 253, PHI 101, 102, 111, 220, 226 or REL 230, CST 141, HUM 201, 202, 260, MUS 121 or 122	3	Liberal Arts Courses: Literature, Philosophy and Ethics, Human Creativity			3
CAD	212	Advanced Technical Drafting II	3	STEM	2ELE	Elective	3
Total Credits in AAS degree			67	Transfer Credits from AAS Degree			67
Additional Required Courses for BS Degree				ODU Equivalency			
ENG	112	College Composition II*	3	ENGL	211C	English Composition II	3
Social Science or Humanities Elective		ENG 125, 241, 242, 243, 251, 252, or 253, HIS 101, 102, 111, 112,121, or 122, PHI 101, 102, 111, 220, 226 or REL 230, CST 141, HUM 201, 202, 260, 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
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
CST	100	Principles of Public Speaking*	3	COMM	101R	Public Speaking	3
IND	115	**Materials and Processes of Industry*	4	MET	200	Manufacturing Processes & Methods	4
Additional Credits Required			22				22

		Requirements for BS to be Completed at ODU					
		MET	300	Thermodynamics	3		
MET	310	Dynamics	3				
MET	320	Design of Machine Elements	3				
CET 345W Materials Testing Laboratory (online-2 cr.) OR MET 225 Materials Testing Laboratory (on-campus, 1cr)			1/2				
EET	305	Adv. Technical Analysis	3				
EET	350	Fundamentals of Electrical Technology	3				
EET	355	Electrical Laboratory	1				
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 Project	1				
MET	XXX	Senior Electives	12				
ENGN	401	FE Review	1				
ENGT	435W	Senior Design Project	3				
ENMA	480	Ethics and Philosophy in Engineering Applications	3				
***Minor	XXX		12				
Credits to be Taken at ODU			62/63				
SUMMARY							
				Transfer Credits from AAS Degree			67
				Additional Credits Required			22
				Credits to be Taken at ODU			62/63
				Total Credits			151/152

*Departmental requirement, student must earn a C or better at TCC to transfer and earn credit at ODU.

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

***The ODU B.S.M.E.T. degree requires students complete an approved engineering, engineering technology, math or science minor.

This agreement is effective upon its approval on February 18, 2018 by TCC's Vice President for Academic Affairs and ODU's Vice Provost, Academic Affairs:

Dr. Kellie Sorey, TCC

Dr. Brian Payne, ODU