

**DELAWARE TECHNICAL AND COMMUNITY COLLEGE
And
OLD DOMINION UNIVERSITY**

PROGRAM ARTICULATION AGREEMENT

**Associate Degree
A.A.S. Civil Engineering Technology
B.S. Civil Engineering Technology**

2016 through 2021

Associate-Baccalaureate Program Articulation Agreement

between

**Delaware Technical and Community College
and
Old Dominion University**

for

Civil Engineering Technology/Civil Engineering Technology

AGREEMENT

WHEREAS Delaware Technical and Community College and Old Dominion University are committed to expanding educational opportunities for the citizens of the State of Delaware, and

WHEREAS the two institutions are committed to providing a smooth transition for students wishing to earn an associate degree and a baccalaureate degree, and

WHEREAS the intent of the two institutions is to avoid duplication of curricula where appropriate within articulated programs of studies, and

WHEREAS the two institutions better serve the educational growth of students and the economic development of the community through cooperative educational planning and optimal utilization of community resources,

BE IT HEREWITH RESOLVED that this agreement commits the partners to full support of an articulation process between similar academic programs offered by the two institutions.

PROVISIONS OF THE AGREEMENT

1. The institutions agree to follow the connected degree curriculums delineated in this document for the transfer of Delaware Tech's Associate Degree Program in Civil Engineering Technology and Old Dominion University's Bachelor of Science Degree program in Civil Engineering Technology.
2. Both educational institutions will cooperate toward developing, disseminating, and presenting the articulated program information to students.
3. Graduates of the Delaware Tech program who have completed the associate degree with a cumulative grade point average of 2.0 or higher will automatically be accepted into the baccalaureate program at Old Dominion University.
4. Students must complete the courses in the specified associate degree program herein with a grade of C or better to receive the credits for transfer.
5. Students intending to transfer should complete the admissions application for Old Dominion University following the third semester of their associate degree program.
6. Students are subject to all the policies and procedures of both institutions.
7. Students are subject to all specific policies pertaining to students admitted to the Civil Engineering Technology Bachelor's Degree Program.
8. This articulation agreement is based on the present curricula contained in this document and it is effective for a period of five years from the date of signing by both parties.
9. Both institutions at any time may initiate changes to this articulation agreement. Both institutions reserve the right to modify the programs as deemed necessary and agree to inform the appropriate individuals of said changes. The senior institution will make a good faith effort to honor the articulation agreement in effect at the time a student is admitted to the Civil Engineering Technology Associate Degree Program.

CONNECTED DEGREE ANALYSIS

Matching Worksheet/Suggested Course Sequence/Bachelor's Completion

ASSOCIATE DEGREE PROGRAM		BACHELOR'S DEGREE COURSE MATCH OR		BACHELOR'S DEGREE COMPLETION	
A.A.S. CIVIL ENGINEERING TECHNOLOGY DELAWARE TECHNICAL & COMMUNITY COLLEGE		POTENTIAL COURSE MATCH		B.S. CIVIL ENGINEERING TECHNOLOGY OLD DOMINION UNIVERSITY	
Course No./Name	CR	Course No./Name	CR	Course No./Name	CR
First Semester (fall)				Fifth Semester (fall)	
SSC 100 First Year Seminar	1	UNIV 100 University Orientation	1	CET 301 Structural Analysis	3
CET 125 Civil and Environmental Drafting and Design	3	ENGN 1ELE Elective	3	CET Elective	3
EDD 171 Intro to CAD Using AutoCAD	3	ENGN 1ELE Elective (Substitute for ENGN 110)	3	MET 335W Fluid Mechanics Lab	1
ENG 101 Critical Thinking/Academic Writing	3	ENGL 110C English Composition	3	Upper Division General Education	3
MAT 190 Precalculus	4	MATH 162M Precalculus I	4	CET 360 Plans and Specifications	3
CET 135 Engineering Materials	3	CET 210 Fundamentals of Building Construction	3	CET 341W Soils Testing Lab (minimum grade of C required)	2
	17		17		15
Second Semester (spring)				Sixth Semester (spring)	
CET 144 Surveying Principles	4	CET 205 Principles of Surveying	4	EET 305 Advanced Technical Analysis	3
CET 225 Civil CAD Applications	3	CET 120 Civil 2D CAD	3	CET 355 Sustainable Building Practices	3
ENG 102 Composition and Research	3	ENGL 211C English Composition	3	CET 345W Materials Testing Lab (minimum grade of C required)	2
MAT 281 Calculus I	4	MATH 211 Calculus I	4	ENMA 302 Engineering Economics	3
PHY 205 General Physics I or	4	PHYS 11N General Physics I or	4	CET Elective	3
PHY 281 Physics I with Calculus	18	PHYS 231N University Physics I	18		14
Sub Total	35		35		29

ASSOCIATE DEGREE PROGRAM		BACHELOR'S DEGREE COURSE MATCH OR		BACHELOR'S DEGREE COMPLETION	
A.A.S. CIVIL ENGINEERING TECHNOLOGY DELAWARE TECHNICAL & COMMUNITY COLLEGE		POTENTIAL COURSE MATCH		B.S. CIVIL ENGINEERING TECHNOLOGY OLD DOMINION UNIVERSITY	
Course No./Name Third Semester (fall)	CR	Course No./Name	CR	Course No./Name Seventh Semester (fall)	CR
CET 240 Hydraulics and Hydrology	4	CET 330 Fluid Mechanics	4	ENGT 434 Intro to Senior Project	1
CET 247 Route Surveying and Design	3	ENGN 2ELE Elective (Substitute ENGT 111)	3	CET 440 Contract Documents	3
CMT 234 Cost Estimating/Planning	3	GNRL 2ELE Elective	3	CET 410 or 450 Concrete or Steel Design	3
GIS 101 Introduction to GIS	3	ENGN 1ELE Elective	3	CET Elective	3
MET 132 Statics or CET 258 Statics with Calculus	3	CET 200 Statics	3	Upper Division General Education	3
	16		16		13
Fourth Semester (spring)				Eighth Semester (spring)	
CET 236 Soils	3	CET 340 Soils and Foundations	3	ENGT 435W Senior Design Project	3
CET 244 Principles of Site Development	4	CET 395 Elective	4	ENGN 401 Fundamentals of Engineering Review	1
MET 242 Strength of Materials or CET 270 Solid Mechanics with Calculus	3	CET 220 Strength of Materials ?????MET 242 and CET 270 will meet the CET 220 content	3	ENMA 480 Ethics and Philosophy in Engineering Applications	3
XXX XXX Social Science/Humanities Elective Choose 1: ECO 111, ECO 122, POL 111, PSY 121, SOC 111, SOC 104, SOC 103	3	HB 1REQ Human Behavior Way of Knowing	3	XXX XXX Humanities Elective	6
HIS XXX Choose either HIS 111 or HIS 112	3	INTP 1 Requirement Interpreting the Past Way of Knowing	3	COMM 101R Public Speaking	3
	16		16		13
TOTAL	67		67		58
Additional Courses Required During Summer or After Graduation					
CHM 110 General Chemistry I	4	CHEM 121N-122N Foundations of Chemistry I	4		
XXX XXX Humanities Elective Choose 1 : CLT 210, ENG 126, ENG 127, VSC 133	3	XXXX XXX Humanities	3		
PHY 206 General Physics II or PHY 208 Physics with Calculus II	4	PHYS 111N or General Physics or PHYS 231N University Physics	4		
	11		11		



CONNECTED DEGREE CURRICULUM

Suggested Course Sequence

ASSOCIATE DEGREE				BACHELOR'S DEGREE			
A.A.S. CIVIL ENGINEERING TECHNOLOGY DELAWARE TECHNICAL AND COMMUNITY COLLEGE				B.S. CIVIL ENGINEERING TECHNOLOGY OLD DOMINION UNIVERSITY			
Semester 1 (Fall)			CR	Semester 5 (Fall)			CR
SSC	100	First Year Seminar	1	CET	301	Structural Analysis	3
CET	125	Civil and Environmental Drafting and Design	3	CET	XXX	CET Elective	3
EDD	171	Intro to CAD Using AutoCAD	3	MET	335 W	Fluid Mechanics Lab	1
ENG	101	Critical Thinking/Academic Writing	3	XXX	XXX	Upper Division General Education	3
MAT	190	Precalculus	4	CET	360	Plans and Specifications	3
CET	135	Engineering Materials	3	CET	341 W	Soils Testing Lab (Minimum Grade of C Required)	2
			17				15
Semester 2 (Spring)				Semester 6 (Spring)			
CET	144	Surveying Principles	4	EET	305	Advanced Technical Analysis	3
CET	225	Civil CAD Applications	3	CET	355	Sustainable Building Practices	3
ENG	102	Composition and Research	3	CET	345 W	Materials Testing Lab (Minimum Grade of C Required)	2
MAT	281	Calculus I	4	ENMA	302	Engineering Economics	3
PHY	205	General Physics I or	4				
PHY	281	Physics I with Calculus		CET	XXX	CET Elective	3
			18				14
Semester 3 (Fall)				Semester 7 (Fall)			
CET	240	Hydraulics and Hydrology	4	ENGT	434	Intro to Senior Project	1
CET	247	Route Surveying and Design	3	CET	440	Contract Documents	3
CMT	234	Cost Estimating/Planning	3	CET	410	Concrete Design or	3
GIS	101	Introduction to GIS	3	CET	450	Steel Design	
MET	132	Statics or	3	CET	XXX	CET Elective	3
CET	258	Statics with Calculus		XXX	XXX	Upper Division General Elective	3
			16				13
Semester 4 (Spring)				Semester 8 (Spring)			
CET	236	Soils	3	ENGT	435 W	Senior Design Project	3
CET	244	Principles of Site Development	4	ENGN	401	Fundamentals of Engineering Review	1
MET	242	Strength of Materials or	3	ENMA	480	Ethics and Philosophy in Engineering	3
CET	270	Solid Mechanics with Calculus				Applications	
XXX	XXX	Social Science/Humanities Elective Choose 1: ECO 111, ECO 122, POL 111, PSY 121, SOC 111, SOC 104, SOC 103	3	XXX	XXX	Humanities Electives	6
HIS	111	U.S. History Pre Civil War or	3	COMM	101R	Public Speaking	3
HIS	112	U.S. History Post Civil War					
			16				16
Total Credits			67				58
ADDITIONAL COURSES REQUIRED DURING SUMMER/AFTER GRADUATION							
CHM 110 General Chemistry I			4				
XXX XXX Humanities Choose 1: CLT 210, ENG 126, ENG 127, VSC 133			3				
PHY 206 General Physics II or PHY 208 Physics With Calculus II			4				
			11				
<ul style="list-style-type: none"> The Bachelor of Science degree program in Civil Engineering Technology requires a minimum of 126 credits. Course sequencing may vary by semester. See your advisor. 							
The articulation agreement is subject to change based on Delaware Tech and senior institution curriculum changes							08/2016

APPROVAL

This program articulation agreement is between Delaware Technical and Community College's Associate of Applied Science Degree in Civil Engineering Technology and Old Dominion University's Bachelor of Science Degree in Civil Engineering Technology.

Approval is granted for a period of five years effective on the date both parties have signed this agreement.

DELAWARE TECHNICAL AND COMMUNITY COLLEGE

OLD DOMINION UNIVERSITY



Dr. Mark T. Brainard, President



Dr. Brian K. Payne, Vice Provost

10/7/16

Date

10/17/16

Date



Ms. Justina M. Sapna, Vice President for Academic Affairs



Dr. Stephanie G. Adams, Dean
Batten College of Engineering and Technology

10/4/16

Date

10/17/16

Date