

# ARTICULATION/TRANSFER AGREEMENT

## EAST TENNESSEE STATE UNIVERSITY

Bachelor of Science Degree/*Surveying and Mapping Science*

## TIDEWATER COMMUNITY COLLEGE

Associate of Applied Science Degree/*Civil Engineering Technology*

### Tidewater Community College

<u>FRESHMAN</u>	<u>Credit Hours</u>	<u>SOPHOMORE</u>	<u>Credit Hours</u>
ENG 111	3	CIV 200	3
MTH 163, 164	3/3	CIV 230	3
CIV 110	2	MEC 131, 132	3/3
CIV 115	3	CIV 225/226	3/1
CIV 171, 172	3/3	CIV 240/239 (Approved Technical Elective)	3/1
ECO 201 (Social Science Elective)	3	MTH 173 (Approved Technical Elective)	5
SDV 101	1	PHY 201,202 (Approved Technical Electives)	4/4
HLT/PED Elective	2	CIV 257 (Approved Technical Elective)	3
PSY 201 (Social Science Elective)	3		
Humanities Elective (Choose one):	3		
*ENG 242, 243, 244, 245, 246, 247, 251, 252			36
	<b>32</b>		

**TOTAL CREDIT HOURS: 68**

#### Bridge Hours - The following may be taken at TCC or at ETSU

Course	Tidewater Community College	East Tennessee State University
English Composition (3 cr.)	ENG 112	ENGL 1020
Public Speaking (3 cr.)	CST 100	SPCH 2300
U.S. History I (3 cr.)	HIS 121	HIST 2010
U.S. History II (3 cr.)	HIS 122	HIST 2020
Linear Algebra (3 cr.)	MTH 285	MATH 2010
Probability & Statistics (3 cr.)	MTH 243	MATH 1530
Fine Arts – Select ONE: (3 cr.)	ART 201 or 202; HUM 201, MUS 121, 122, 221, or 222	ARTH 2010 or 2020, BLUE 2150, DANC 1500, HUMT 2310 or 2320, MUSC 1030 or 1035, or THEA 1030
<b>TOTAL CREDIT HOURS: 21</b>		

### East Tennessee State University

<u>JUNIOR</u>	<u>Credit Hours</u>	<u>SENIOR</u>	<u>Credit Hours</u>
ENTC 3020	3	SURV 3570	4
CSCI 1100	3	SURV 3580	3
ENTC 3030	3	SURV 4537	4
FNCE 3130	3	SURV 4500	2
SURV 3510	3	SURV 4547	4
SURV 3530	3	SURV 4550	3
SURV 3540 or ENTC 3989	2	SURV 4567	3
SURV 3550	3	SURV 4570	1
SURV 3560	3	GEOG 3500	3
	<b>26</b>		<b>27</b>

**TOTAL CREDIT HOURS: 53**

#### NOTES:

- The Surveying & Mapping Science program at ETSU is accredited by the Applied Science Accreditation Commission of ABET. <http://www.abet.org>
- Students must fulfill necessary prerequisites for courses listed above.
- ETSU classes beginning in SURV are usually only offered every third semester; so, the above junior-senior listing may vary depending on where in the cycle a student begins classes. Many classes can be taken from ETSU from a distance.
- ETSU requires that a minimum of 50 credit hours in any program must be completed at a four-year institution.

**TOTAL DEGREE CREDIT HOURS:** Tidewater Community College (68), Bridge (21), and ETSU (53): 142

**Tidewater Community College/East Tennessee State University**

**ARTICULATION AGREEMENT**

Associate of Applied Science, Civil Engineering Technology (915)

with Transfer General Education Courses to

Bachelor of Science in Surveying and Mapping Science (221-915-01)

Tidewater Community College AAS in Civil Engineering Technology				East Tennessee State University BS in Surveying and Mapping Science			
CIV	110	Intro to Civil Engineering Technology	2	SURV	ELE	Guided Elective	2
CIV	115	Civil Engineering Drafting	3	SURV	2560	Surveying Graphics	3
CIV	171	Surveying I	3	SURV	1550	Introduction to Surveying	3
CIV	172	Surveying II	3	SURV	2550	Surveying Measurement Fundamentals	3
CIV	200	Fundamentals of Building Construction	3	SURV	ELE	Guided Elective	3
CIV	225	Soil Mechanics	3	---	ELE	Science Elective	4
CIV	226	Soil Mechanics Laboratory	1	---	ELE		
CIV	230	Civil Construction Materials	3	SURV	ELE	Guided Elective	3
---	ELE	<b>Approved Technical Elective</b> (CIV 239 Fluid Mechanics Laboratory)	1	SURV	3630	Surveying Hydrology	4
CIV	240	Fluid Mechanics and Hydraulics	3				
MEC	131	Mechanics I – Statics for Engineering Technology	3	SURV	ELE	Guided Elective	3
MEC	132	Mechanics II – Strength of Materials for Engineering Technology	3	SURV	ELE	Guided Elective	3
----	ELE	<b>Approved Technical Elective</b> (MTH 173 Calculus)	5	MATH	1910	Calculus I	4
----	ELE	<b>Approved Technical Elective</b> (PHY 201 College Physics I)	4	PHYS	2010	General Physics I –Noncalculus	3
				PHYS	2011	General Physics I Laboratory	1
----	ELE	<b>Approved Technical Elective</b> (PHY 202 College Physics II)	4	PHYS	2020	General Physics II –Noncalculus	3
				PHYS	2021	General Physics II Laboratory	1
----	ELE	<b>Approved Technical Elective</b> (CIV 257 Surveying Law)	3	SURV	2520	Introduction to Surveying Law	3
ENG	111	College Composition I	3	ENGL	1010	Critical Reading and Expository Writing	3
MTH	163	Pre-Calculus I	3				
MTH	164	Pre-Calculus I	3				
SDV	101	Orientation to Engineering and Technologies	1	SURV	1570	Portfolio I	1
HLT/PED	ELE	Health or PE Elective	2				
HUM	ELE	ENG, 242, 243, 244, 251, 252	3	ENGL	1REQ	Literature Requirement	3
Social Science	ELE	ECO 201 Principles of Macroeconomis	3	ECON	2210	Principles of Macroeconomics	3
Social Science	ELE	PSY 201 Introduction to Psychology	3	PSYC	1310	Introduction to Psychology	3
<b>Total for AAS</b>			<b>68</b>	<b>Total Transfer</b>			<b>59</b>

**Bridge Hours to be taken at TCC or ETSU**

TCC				ETSU			
HUM	ELE	Choose one: ART 201, 202, HUM 201, MUS 121, 122, 221 or 222,	3	Fine Arts	1REQ	Fine Arts	3
Social Science	ELE	HIS 121 United State History I	3	HIST	2010	The United States to 1877	3
Social Science	ELE	HIS 122 United States History II	3	HIST	2020	The United States since 1877	3
CST	100	Principles of Public Speaking	3	SPCH	2300	Public Speaking	3
ENG	112	College Composition II	3	ENGL	1020	Critical Thinking and Argumentation	3
MTH	285	Linear Algebra	3	MATH	2010	Linear Algebra	3
MTH	243	Probability and Statistics I	3	MATH	1530	Probability and Statistics	3
<b>Total Additional Credits</b>			<b>21</b>	<b>Total Additional Credits</b>			<b>21</b>
<b>Total Credits Completed with TCC</b>			<b>89</b>	<b>Total Credits Transferred</b>			<b>80</b>

**NOTES:**

1. Many classes can be taken as ETSU distance learning. Contact ETSU for details and a list of classes where this option is available.
2. Surveying (SURV) courses at ETSU are offered on rotation, usually every third semester. When a student enters the program will determine course sequencing and the time required to complete the program.
3. ETSU requires that a minimum of 50 credit hours in any program must be completed at a four-year institution.

Completion of this articulation agreement alone does not guarantee admission to East Tennessee State University. All students must meet the admission requirements set by ETSU. Please visit <http://admissions.etsu.edu/> for more information regarding admission to ETSU.

\*Students who have completed TCC and ETSU coursework as per this agreement will have earned a minimum of 142 semester credit hours.

**Additional ETSU Requirements**

ENTC	3020	Technology and Society	3
SURV	3510	Engineering and Construction Surveys	3
SURV	3530	Survey Measurement and Computational Analysis	3
SURV or ENTC	3540 or 3989	Junior Surveying Projects	2
		Internship/Cooperative Education	
SURV	3550	Advanced Surveying Measurement	3
SURV	3560	Geodetic Science	3
SURV	3570	Photogrammetry	4
SURV	3580	Surveying Topics	3
SURV	4500	Senior Surveying Projects	2
SURV	4537	Land Boundary Location	4
SURV	4547	Land Subdivision and Platting	4
SURV	4550	Automated Surveying and Mapping	3
SURV	4567	Positioning with GNSS	3
SURV	4570	Portfolio II	1
FNCE	3130	Real Estate Law	3
GEOG	3500	Geographic Information Systems	3
ENTC	3030	Technical Communication	3
CSCI	1100	Using Information Technology	3
<b>Total Credits to be Taken at ETSU</b>			<b>53</b>

**SUMMARY**

**Total Transfer Credits from Community College**

**80**

**Total Credits to be Taken at ETSU**

**53**

**Total Credits for Degree at ETSU**

**133\***

*Kellie C. Sorey* 4/27/14  
 Signature Date

Dr. Kellie C. Sorey  
 Associate Vice President for Academics  
 Tidewater Community College

*Bert C. Bach* 4-27-14  
 Signature Date

Dr. Bert C. Bach  
 Provost and Vice President for Academic Affairs  
 East Tennessee State University