

# TRANSFER AGREEMENT

2020-21

Chattanooga State Community College

Tennessee Technological University

*Use this as a guide to make your way through Chattanooga State Community College and plan your future at Tennessee Technological University.*

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### **Transfer Agreement Policies**

1. This publication is a transfer agreement between Chattanooga State Community College and Tennessee Technological University.
2. The current edition of this publication will be in effect for six years from the time a student becomes regularly admitted at Chattanooga State.
3. Students entering Chattanooga State must meet all the standards and follow the procedures of the current Chattanooga State catalog.
4. Students entering Tennessee Tech must meet the standards and follow the procedures of the current Tennessee Tech undergraduate catalog.
5. This agreement assumes that students will complete an associate degree at Chattanooga State before entering Tennessee Tech. Students not completing an associate degree will have their applications evaluated as any other transfer student.
6. In some cases, individual programs at Tennessee Tech have specific requirements for admission which supersede all others.

### **Admission Standards**

Under this agreement, in order to be eligible for admission to Tennessee Tech, you must have an associate degree from Chattanooga State and a minimum 2.0 grade point average. Students not completing an associate degree will have their applications evaluated as any other transfer student. In selected majors, a higher grade point average is required for admission. Check the curricular requirements and prerequisite course requirements for the major of your choice for additional information.

### **Application**

1. Apply online at [www.tntech.edu/apply](http://www.tntech.edu/apply). Application priority deadlines for desired terms: [Fall = Aug. 1, Spring = Dec. 1, Summer = May 1]
2. Pay the \$25 application fee (if you've never paid it before). You can pay at the end of the application or online at [www.tntech.edu/payapplicationfee](http://www.tntech.edu/payapplicationfee). If you are applying for Summer Term 2018 or later, you will log back into your application to pay the fee.
3. Request ALL official transcripts be sent to TTU Admissions as soon as possible (including terms in progress). Make sure that you have final grades sent, as well, once they are posted. Please send to the mailing address listed below.
4. The grade point average (GPA) used for Admissions purposes will include grades earned at all previous institutions.
5. Students who have NOT earned 24 hours of transferrable work should also submit a high school transcript or GED scores (along with ACT and/or SAT scores). Students who have not successfully completed college-level Math or English courses must follow ACCUPLACER testing guidelines.

6. Applicants will be notified of their admissions status after all credentials have been received and evaluated. Tentative admission may be granted on the basis of partial transcripts if the quality of work is clearly acceptable. Final admission is granted only after all official transcripts and credentials are received. Admission decisions will be e-mailed to the address provided by the student. You may also check your application status by logging back into your application.
7. Once accepted, your transcript evaluation will be able to be viewed. Only the credit, and not the grade, will transfer for academic and graduation purposes. Check out [www.tntech.edu/transfer](http://www.tntech.edu/transfer) for your next steps (setting up student email, applying for housing, proper health forms, advisement, orientation, etc.)
8. All non-commuting, single freshmen must live in university housing. Please visit [www.tntech.edu/reslife](http://www.tntech.edu/reslife) (or call 931-372-3414) for more information.

**Mailing Address:**  
**TTU Admissions Office**  
**P.O. Box 5006**  
**Cookeville, TN 38505**

**Physical Address:**  
**Admissions Office**  
**Jere Whitson (208)**  
**805 Quadrangle**  
**Cookeville, TN 38505**

**Contact Information:**  
**Phone: (931) 372-3888**  
**Toll Free: (800) 255-8881**  
**[admissions@tntech.edu](mailto:admissions@tntech.edu)**  
**M-F 8:00am-4:30pm (CT)**

**\*\*\*To schedule a date to visit TTU, please sign up at [www.tntech.edu/visit](http://www.tntech.edu/visit)\*\*\***

### **Expenses**

For the list of current fees, check the Bursar's web site at [www.tntech.edu/bursar/](http://www.tntech.edu/bursar/)

### **Scholarship Information**

Scholarship opportunities are available for transfer students. For scholarship information, check the scholarship website at [www.tntech.edu/scholarships/](http://www.tntech.edu/scholarships/) The scholarship deadline date is December 15 for the next academic year. But, additional dates are applicable for transfer students. For more information, please visit [www.tntech.edu/tsapp](http://www.tntech.edu/tsapp).

# Undergraduate Colleges and Departments

## College of Agriculture and Human Ecology

School of Agriculture  
School of Human Ecology

## College of Arts and Sciences

Biology  
Chemistry  
Earth Sciences  
English  
Foreign Languages  
History  
Mathematics  
Physics  
Sociology and Political Science

## College of Business

Accounting  
Decision Sciences and Management  
Economics, Finance and Marketing

## College of Education

Counseling and Psychology  
Curriculum and Instruction  
Exercise Science, Physical Education & Wellness

## College of Engineering

Chemical Engineering  
Civil and Environmental Engineering  
Computer Science  
Electrical and Computer Engineering  
Mechanical Engineering  
Manufacturing and Engineering Technology

## College of Fine Arts

Art, Craft, and Design  
Music

## College of Interdisciplinary Studies

Communication  
School of Environmental Studies  
School of Interdisciplinary Studies  
School of Professional Studies

## Whitson-Hester School of Nursing

## Questions? Contact:

Academic Records	Registrar, Jere Whitson 221	372-3317
Admissions	Admissions Office, Jere Whitson 208	372-3888
Athletics	Athletics, Hooper Eblen 300	372-3940
Auto Registration	parking and Transportation, Roaden University Center	372-6428
Bills	Business Office, Derryberry Hall 100	372-3311
Books and Supplies	University Store, Roaden University Center G-7	372-3131
College of		
Agriculture and Human Ecology	Dean's Office	372-3149
Arts and Sciences	Dean's Office, Henderson Hall 202	372-3118
Student Success Center	Henderson Hall 202	372-3610
Business	Dean's Office, Johnson Hall 101	372-3372
Student Success Center	Johnson Hall 107	372-3371
Education	Dean's Office, T.J. Farr 100	372-3124
Student Success Center	T.J. Farr Building 202	372-6036
Engineering	Dean's Office, Clement Hall 201	372-3172
Student Success Center	Clement Hall 206	372-3833
Interdisciplinary Studies	Dean's Office Southwest Hall 146	372-3394
Student Success Center	Dean's Office, Southwest Hall 146	372-6238
School of Nursing	Advisors, Nursing and Health Services Building 208	372-3229
Counseling	Counseling Center, Roaden University Center 307	372-3331
Financial Aid	Financial Aid Office, Jere Whitson	372-3073
Fraternities	Activities & Campus Life, Roaden University Center 234	372-3236
Housing	Office of Residential Life, MS Cooper 217	372-3414
Religious Opportunity	Activities & Campus Life, Roaden University Center 234	372-3236
Student Government	Activities & Campus Life, Roaden University Center 234	372-3236
Student Organizations	Activities & Campus Life, Roaden University Center 234	372-3236
Office of Teacher Education	College of Education, T.J. Farr 103	372-3170
Veteran Certification	Military and Veterans Affairs Jere Whitson	372-3070

# COLLEGE OF EDUCATION

## OFFICE OF TEACHER EDUCATION

### **Admission to the Teacher Education Program for Undergraduate Students with an AS or AAS Degree**

The undergraduate admission process applies to students pursuing a bachelor's degree and transfer students that received an AS or AAS Degree from a community college. Students fitting this category receive full admission to the Teacher Education Program upon meeting the requirements listed at the link below in the Undergraduate Requirements Section: <https://www.tntech.edu/education/teachered/admission.php>

All requirements for admission to the Teacher Education Program must be completed by the designated deadline. Students will not be allowed to enroll in any upper division professional education courses without obtaining full admission to the program. A detailed list of requirements, deadlines, and links to all required forms can be found at the above link. Forms cannot be submitted online without a T Number (TTU student ID number).

Upon admission to the Teacher Education Program and completion of upper division coursework, students will prepare and submit requirements for the Field and Clinical Practice (Residency or Student Teaching experience). More detailed information on Field and Clinical Practice requirements and deadlines can be found at the link below: <https://www.tntech.edu/education/teachered/field-clinical.php>

### **Admission to the Teacher Education Program for Undergraduate Students with an AST Degree**

Students who completed the AST (Associate Science in Teaching) Degree through a community college will have completed some teacher education admission requirements previously in order to obtain their AST degree. In order to complete full admission to the Teacher Education Program at Tennessee Tech University students must show proof of having been awarded the AST Degree (this will be listed on official transcripts) and meet the requirements listed at the link below in the AST Degree Requirements section: <https://www.tntech.edu/education/teachered/admission.php>

All requirements for admission to the Teacher Education Program must be completed by the designated deadline. Students will not be allowed to enroll in any upper division professional education courses without obtaining full admission to the program. A detailed list of requirements, deadlines, and links to all required forms can be found at the above link. Forms cannot be submitted online without a T Number (TTU student ID number).

Upon admission to the Teacher Education Program and completion of upper division coursework, students will prepare and submit requirements for the Field and Clinical Practice (Residency or Student Teaching experience). More detailed information on Field and Clinical Practice requirements and deadlines can be found at the link below: <https://www.tntech.edu/education/teachered/field-clinical.php>

**All forms and detailed information regarding progression through the Teacher Education Program at Tennessee Tech University can be found at: <https://www.tntech.edu/education/teachered/>**

**Teacher Education candidates may be required to meet revisions in various curricula necessitated by changing standards of the Council for Accreditation of Educator Preparation (CAEP) or by requirements of the Tennessee State Board of Education and teacher licensure.**

## ELEMENTARY EDUCATION (K-5)

### CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE IN TEACHING

<b>Freshman Year</b>		<b>F</b>	<b>SP</b>	<b>Sophomore Year</b>		<b>F</b>	<b>SP</b>
BIOL 1510	Environmental Science 1	0	4	ART 1035 or MUS 1030		0	3
CSED 1000	College Success for Ed	3	0	BIOL 1010	Introduction to Biology	4	0
ED 201	Foundations of Education	3	0	ECED 2360	Development of Exceptional		
ENGL 1010, 1020	Composition 1, 2	3	3		Children	0	3
MATH 1410	Number Concepts for			ED 203	Child and Adolescent Development		
	Teachers	0	3		in the Classroom	3	0
MATH 1530	Introductory Statistics	3	0	ENGL Literature	General Education Elective	3	3
POLS 1030 or SOCI 1010	American Government OR			GEOG 2010	World Regional Geography	0	3
	Introduction to Sociology	0	3	HIST 2010, 2020	Early, Modern US History	3	3
COMM 2025	Fundamentals			MATH 1420	Geometry Concepts for		
	of Communication	0	3		Teachers	3	0
PSCI 1030	Survey of Physical Science	4	0				
	Total	16	16		Total	16	15

TENNESSEE TECHNOLOGICAL UNIVERSITY  
ELEMENTARY EDUCATION (K-5 LICENSURE) - BACHELOR OF SCIENCE DEGREE

Advisor: College of Education Student Success Center

T.J. Farr 202, Phone: (931) 372-6036

<b>Junior Year</b>				<b>Senior Year</b>			
CUED 4700	Educational Data and Assessment	2		ELED 4871	Residency I		5
ECSP 4100	Developmentally Appropriate			ELED 4872	Professional Seminar I		5
	Practices: K-4		3	ELED 4881	Residency II		10
ELED 3140	Teaching of Social Studies	2		ELED 4882	Professional Seminar II		2
ELED 3152	Teaching of Mathematics	3		CUED 4800	Student Engagement		3
ELED 4142	Teaching of Science		3				
ESLP 4100	ESL Methodology and Materials						
	for PreK-12		3				
FOED 3010	Integrating IT into the Classroom		3				
FOED 3800, 3810							
	Field Experiences in Education		4				
READ 3311	Literacy I		7				
SPED 3000	Teaching Persons with Disabilities						
	in the Regular Classroom		3				
Elective			2				
	Total		35		Total		25

**Students must complete 50 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.**

7/15/20

## SECONDARY EDUCATION - BIOLOGY

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

<b>Freshman Year</b>	<b>F</b>	<b>SP</b>	<b>Sophomore Year</b>	<b>F</b>	<b>SP</b>
CHEM 1110 General Chemistry I	4	0	Humanities/Fine Arts Elective	3	3
ED 201 Foundations of Education	3	0	BIOL 1110, 1120 General Biology I, II	4	4
ENGL 1010, 1020 Composition I, II	3	3	EDUC 2210 Educational Psychology	0	3
HIST 2010, 2020 Early, Modern US History	3	3	ENGL 2110 or 2120 American Literature I or II	3	0
MATH 1530 Intro Statistics	3	0	ENGL 2210 or 2220 English Literature I or II		
Social/Behavioral Science Electives	0	6	ENGL 2410 or 2420 Lit of the Western		
Elective	0	2	World I or II		
			GEOL 1040 Physical Geology	4	0
			MATH 1710 Precalculus Algebra	0	3
			COMM 2025 Fundamentals of		
			Communion	0	3
<b>Total</b>	<b>16</b>	<b>14</b>	<b>Total</b>	<b>14</b>	<b>16</b>

TENNESSEE TECHNOLOGICAL UNIVERSITY  
 SECONDARY EDUCATION - BIOLOGY  
 BACHELOR OF SCIENCE IN EDUCATION DEGREE  
 Advisor: College of Education Student Success Center  
 T.J. Farr 202, Phone: (931) 372-6036

<b>Junior Year</b>		<b>Senior Year</b>		
BIOL 2010 Human Anatomy and Physiology I	4	SEED 4871 Residency I		5
BIOL 2310 General Botany	4	SEED 4872 Professional Seminar I		5
BIOL 3130 General Ecology	4	SEED 4881 Residency II		10
BIOL 3140 Cellular Biology	4	SEED 4882 Professional Seminar II		2
BIOL 3810 General Genetics	4	SPED 3000 Teaching Persons with Disabilities		
ESLP 3100 ESL Pedagogy: Secondary Education		in the Regular Classroom		3
		Methodology and Materials	1	
FOED 3010 Integrating IT into the Classroom	3			
FOED 3820 Field Experience in Education	2			
PHYS 2010 Algebra-based Physics I	4			
READ 3350 Teaching Reading in the Content				
		Areas	3	
SEED 4123 Materials & Methods of Teaching		the Sciences	3	
		Total	36	
		<b>Total</b>		<b>25</b>

**Students must complete 50 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.**

## SECONDARY EDUCATION - CHEMISTRY

### CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

<b>Freshman Year</b>	<b>F</b>	<b>SP</b>	<b>Sophomore Year</b>	<b>F</b>	<b>SP</b>
BIOL 1010, 1020 Intro to Biology, Diversity of Life	4	4	Humanities/Fine Arts Elective	3	3
ED 201 Foundations of Education	3	0	EDUC 2210 Educational Psychology	0	3
ENGL 1010, 1020 Composition I, II	3	3	ENGL 2110 or 2120 American Literature I or II	3	0
HIST 2010, 2020 Early, Modern US History	3	3	ENGL 2210 or 2220 English Literature I or II		
MATH 1530 Intro Statistics	3	0	ENGL 2410 or 2420 Lit of the Western World I or II		
Social/Behavioral Science Elective	0	3	COMM 2025 Fundamentals of Communication	0	3
Elective	0	1	CHEM 1110, 1120 General Chemistry I, II	4	4
			GEOL 1040 Physical Geology	4	0
			Social/Behavioral Science Elective	0	3
Total	16	14	Total	14	16

TENNESSEE TECHNOLOGICAL UNIVERSITY  
SECONDARY EDUCATION - CHEMISTRY  
BACHELOR OF SCIENCE DEGREE IN EDUCATION  
Advisor: College of Education Student Success Center  
T.J. Farr 202, Phone: (931) 372-6036

<b>Junior Year</b>		<b>Senior Year</b>	
ASTR 1010 or 1020 or 1030	4	SEED 4871 Residency I	5
CHEM 3005 or 3010	4	SEED 4872 Professional Seminar I	5
CHEM 3410 Quantitative Analysis	4	SEED 4881 Residency II	10
CHEM 3500 Elements of Physical Chemistry	3	SEED 4882 Professional Seminar II	2
FOED 3010 Integrating IT into the Classroom	3	SPED 3000 Teaching Persons with Disabilities in the Regular Classroom	3
FOED 3820 Field Experiences in Education	2		
MATH 1130 or 1710	3		
MATH 1830 Applied Calculus	3		
PHYS 2010 Algebra-based Physics I	4		
READ 3350 Teaching Reading in the Content Areas	3		
SEED 4123 Materials & Methods of Teaching the Sciences	3		
Total	35	Total	25

**Students must complete 50 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.**



7/15/20

## SECONDARY EDUCATION - EARTH SCIENCE

### CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

<b>Freshman Year</b>	<b>F</b>	<b>SP</b>	<b>Sophomore Year</b>	<b>F</b>	<b>SP</b>
BIOL 1010, 1020 Intro to Biology, Diversity of Life	4	4	EDUC 2210 Educational Psychology	0	3
ED 201 Foundations of Education	3	0	ENGL 2110 or 2120 American Literature I or II	3	0
ENGL 1010, 1020 Composition I, II	3	3	ENGL 2210 or 2220 English Literature I or II		
HIST 2010, 2020 Early, Modern US History	3	3	ENGL 2410 or 2420 Lit of the Western World I or II	0	3
MATH 1530 Intro Statistics	3	0	MATH 1130 or 1710	0	3
MATH 1830 Applied Calculus	0	3	COMM 2025 Fundamentals of Communication	0	3
Humanities/Fine Arts Elective	0	3	Social/Behavioral Science Electives	3	3
			GEOL 1040 Physical Geology	4	0
			ASTR 1010 or 1020 or 1030	4	0
<b>Total</b>	<b>16</b>	<b>16</b>	<b>Total</b>	<b>14</b>	<b>15</b>

TENNESSEE TECHNOLOGICAL UNIVERSITY  
 SECONDARY EDUCATION - EARTH SCIENCE  
 BACHELOR OF SCIENCE DEGREE IN EDUCATION  
 Advisor: College of Education Student Success Center  
 T.J. Farr 202, Phone: (931) 372-6036

<b>Junior Year</b>		<b>Senior Year</b>		
GEOL 1045 Earth Environment, Resources & Society	4	SEED 4871 Residency I		5
BIOL 3130 General Ecology	4	SEED 4872 Professional seminar I		5
GEOL 3230 Structural Geology and Tectonics	4	SEED 4881 Residency II		10
GEOL 3410 Paleontology or other 3000 course	4	SEED 4882 Professional Seminar II		2
GEOL 4150 Geomorphology	4	SPED 3000 Teaching Persons with Disabilities in the Regular Classroom		3
GEOL Upper-Division Elective	3			
FOED 3010 Integrating IT into the Classroom	3			
FOED 3820 Field Experiences in Education	2			
READ 3350 Teaching Reading in the Content Areas	3			
SEED 4123 Materials & Methods of Teaching the Sciences	3			
Elective	1			
<b>Total</b>		<b>35</b>	<b>Total</b>	<b>25</b>

**Students must complete 50 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.**

## SECONDARY EDUCATION - MATHEMATICS

### CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

<b>Freshman Year</b>	<b>F</b>	<b>SP</b>	<b>Sophomore Year</b>	<b>F</b>	<b>SP</b>
Science Sequence	4	4	Humanities/Fine Arts Elective	3	3
ED 201      Foundations of Education	3	0	ENGL 2110 or 2120 American Literature I or II	3	0
ENGL 1010, 1020 Composition I, II	3	3	ENGL 2210 or 2220 English Literature I or II		
HIST 2010, 2020 Early, Modern US History	3	3	ENGL 2410 or 2420 Lit of the Western		
MATH 1910, 1920 Calculus I, II	4	4	World I or II		
			MATH 2010      Linear Algebra	3	0
			MATH 2110      Calculus w/Analytic		
			Geometry III	0	4
			MATH 2120      Differential Equations	0	3
			COMM 2025      Fundamentals of		
			Communication	0	3
			Social/Behavioral Science Electives	3	3
			Elective	1	0
Total	17	14	Total	13	16

TENNESSEE TECHNOLOGICAL UNIVERSITY  
 SECONDARY EDUCATION - MATHEMATICS  
 BACHELOR OF SCIENCE DEGREE IN EDUCATION  
 Advisor: College of Education Student Success Center  
 T.J. Farr 202, Phone: (931) 372-6036

<b>Junior Year</b>		<b>Senior Year</b>		
ESLP 3100	Pedagogy: Secondary Education	SEED 4322	Teaching Algebra in Middle/High	
	Methodology and Materials	1	School	3
FOED 3010	Integrating IT into the Classroom	3	SEED 4871	5
FOED 3820	Field Experiences in Education	2	SEED 4872	5
MATH 3070	Statistical Methods I	3	SEED 4881	10
MATH 3400	Intro to Concepts of Mathematics	3	SEED 4882	2
MATH 3430	College Geometry	3	SPED 3000	Teaching Persons with
MATH 4010, 4050, 4350 or 4360		3	Disabilities in the Regular Classroom	3
MATH 4210	Numerical Analysis I	3		
MATH 4610 or 4620		3		
READ 3350	Teaching Reading in the Content			
	Area	3		
SEED 4122	Materials & Methods of Teaching			
	Mathematics	3		
SEED 4422	Teaching Secondary Mathematics			
	using Technology	3		
Total		33	Total	28

7/15/20

**COLLEGE OF ENGINEERING**  
**DEPARTMENT OF CHEMICAL ENGINEERING**  
**CHEMICAL ENGINEERING**

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

<b>Freshman Year</b>	<b>F</b>	<b>SP</b>	<b>Sophomore Year</b>	<b>F</b>	<b>SP</b>
CHEM 1110, 1120 General Chemistry I, II	4	4	ENGL 2110 or 20 American Literature I or II	0	3
ENGL 1010, 1020 Composition I, II	3	3	ENGL 2210 or 20 English Literature I or II		
ENGR 225 Engineering Programming	3	0	ENGL 2410 or 20 Lit of the Western World I or II		
HIST 2010, 2020 Early, Modern US History <sup>1</sup>	3	3	MATH 2110 Calculus III	4	0
MATH 1910, 1920 Calculus I, II	4	4	MATH 2120 Differential Equations	0	3
Social/Behavioral Science Elective	0	3	PHYS 2110, 2120 Calculus-Based Physics I, II	4	4
			COMM 2025 Fund of Communication	0	3
			Humanities/Fine Arts Electives	3	3
			Social/Behavioral Science Elective	3	0
<b>Total</b>	<b>17</b>	<b>17</b>	<b>Total</b>	<b>14</b>	<b>16</b>

TENNESSEE TECHNOLOGICAL UNIVERSITY  
CHEMICAL ENGINEERING - BACHELOR OF SCIENCE DEGREE

Advisor: Pedro Arce, Department Chairperson

Prescott Hall 214, Phone: (931) 372-3297

(Recommend the advisor be contacted prior to transfer)

<b>Junior Year<sup>2</sup></b>			<b>Senior Year</b>	
CHE 1020 Processes, Products and Ethics	1		CHE 4131 Transfer Science III: Diffusion and	
CHE 2015 Intro to Chemical and Biological			Diffusive-Convective Mass Transfer	4
		3	CHE 4210 Chemical Reaction Engineering	4
CHE 2020 Intro to Chemical & Biological			CHE 4250 CHE Capstone Laboratory	2
		3	CHE 4540 Process Dynamics & Control	3
CHE 3735 CHE Operations	2		CHE 4410, 4420 Process Design I, II	6
CHE 3010 Thermodynamics of Chem Process	3		ChE Technical Electives <sup>3</sup>	6
CHE 3021 Separations and Solution			CHEM 3510, 3520 Physical Chemistry	8
		4		
CHE 3111 Transfer Science I		4		
CHE 3121 Transfer Science II		4		
CHEM 3010, 3020 Organic Chemistry I, II		8		
Technical Elective <sup>3</sup>		6		
<b>Total</b>		<b>41-42</b>	<b>Total</b>	<b>33</b>

<sup>1</sup>HIST 2010 and 2020 United States History are not required for the Bachelor of Science degree in Chemical Engineering.

<sup>2</sup>Students must apply to the CHE Fast-Track MS program by the end of their second junior term.

<sup>3</sup>Six hours of Technical Electives can be from any of the following courses:

- a. Any College of Engineering course at the 3000 or 4000 level.
- b. Any BIOL/CHEM/MATH/PHYS at the 3000 or 4000 level.
- c. Any course with the prior approval of the ChE Undergraduate Program Coordinator.

<sup>4</sup>Six hours of ChE Technical Electives must come from one of the following courses:

- a. ChE 4245 -- Clinical Immersion
- b. ChE 4330--Polymer Engineering
- c. ChE 4335--Fuel Cells
- d. ChE 4340--Introduction to Rheology
- e. ChE 4440--Protein Engineering
- f. ChE 4550--Green Engineering
- g. ChE 4560--Agile Manufacturing
- h. ChE 4661--Transport in Biochemical and Biological Processes
- i. ChE 4990--Undergraduate Research

***Students must complete 50 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.***

## DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

## COMPUTER ENGINEERING

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

<b>Freshman Year</b>	<b>F</b>	<b>SP</b>	<b>Sophomore Year</b>	<b>F</b>	<b>SP</b>
ENGL 1010, 1020 Composition I, II	3	3	ENGL 2110 or 2120 American Literature I or II	0	3
MATH 1910, 1920 Calculus I, II	4	4	ENGL 2210 or 2220 English Literature I or II		
CHEM 1110 General Chemistry I	4	0	ENGL 2410 or 2420 Lit of the Western World I or II		
Humanities/Fine Arts Electives	3	3	HIST 2010, 2020 Early, Modern US History <sup>1</sup>	3	3
Social/Behavioral Science Elective	3	3	MATH 2010 Linear Algebra	3	0
			MATH 2120 Differential Equations	0	3
			PHYS 2110, 2120 Calculus-Based Physics I, II	4	4
			COMM 2025 Fundamentals of Communication	0	3
<b>Total</b>		<b>17 13</b>	<b>Total</b>	<b>13</b>	<b>16</b>

TENNESSEE TECHNOLOGICAL UNIVERSITY  
COMPUTER ENGINEERING - BACHELOR OF SCIENCE DEGREE

Advisor: Carol McGee, Professional Advisor

Clement Hall 318, cmcgee@tntech.edu

(Recommend the advisor be contacted prior to transfer)

<b>Third Year</b>		<b>Fourth Year</b>		
CSC 1300	Intro to Problem Solving and Computer Programming	4	ECE 3010	Signals & Systems 3
CSC 1310	Data Structures and Algorithms	4	ECE 3020	Discrete-Time Signals and Systems 3
ECE 2001	Computer-Aided Engineering in ECE	1	ECE 3060	EE Lab II 1
ECE 2010	Electric Circuits I	3	ECE 3300	Electronics I 3
ECE 2011	EE Lab I	1	ECE 3160	Digital Systems Lab 1
ECE 2110	Intro to Digital Systems	3	ECE 3130	Microcomputer Systems 4
ECE 2020	Electric Circuits II	3	ECE 3920	Professional Issues in ECE 1
MATH 2110	Calculus III	4	CSC 2400	Design of Algorithms 3
MATH 3470	Intro Probability and Statistics	3	CSC 2500	Unix Lab 1
			CSC 4200	Computer Networks 3
			CmpE Engr. Elective <sup>2</sup>	1
<b>Total</b>		<b>26</b>	<b>Total</b>	<b>24</b>

<b>Fifth Year</b>		
ECE 4961, 4971	Capstone Design I, II	6
ECE 4110	Digital System Design	3
ECE 4120	Fundamentals of Computer Design	3
ECE 4140	Embedded System Design	3
EE Elective <sup>2</sup>		3
CmpE Engr. Elective <sup>2</sup>		4
CSC 4100	Operating Systems	3
CS Elective <sup>2</sup>		3
<b>Total</b>		<b>28</b>

<sup>1</sup>HIST 2010 and 2020 United States History are not required for the Bachelor of Science degree in Computer Engineering.<sup>2</sup>Select from the ECE Department approved list.

**Students must complete 50 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.**

7/15/20

DEPARTMENT OF MANUFACTURING AND ENGINEERING TECHNOLOGY

ENGINEERING TECHNOLOGY

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

<b>Freshman Year</b>	<b>F</b>	<b>SP</b>	<b>Sophomore Year</b>	<b>F</b>	<b>SP</b>
CHEM 1010 or 1110	4	0	ECON 2010, 2020 Prin of Micro, Macro	3	3
ENGL 1010, 1020Composition I, II	3	3	ENGL 2110 or 20American Literature I or II	0	3
MATH 1710, 1720Precalculus Algebra,			ENGL 2210 or 20English Literature I or II		
Trigonometry	3	3	ENGL 2410 or 20 Lit of the Western World I or II		
DD 114 CAD Engineering Drawing I	3	0	HIST 2010, 2020 United States History I, II	3	3
ENGR 225 Engineering Programming	0	3	PHYS 2010, 2020 or 2110, 2120	4	4
ENST 1370 Manufacturing Processes	0	3	PSYC 1030 General Psychology	3	0
Humanities/Fine Arts Electives	3	3	COMM 2025 Fundamentals of Communication	0	3
<b>Total</b>	<b>16</b>	<b>15</b>	<b>Total</b>	<b>13</b>	<b>16</b>

TENNESSEE TECHNOLOGICAL UNIVERSITY  
ENGINEERING TECHNOLOGY - BACHELOR OF SCIENCE DEGREE

Advisor: Dr. Dale Wilson, Interim Department Chairperson

Lewis Hall 107, Phone: (931) 372-3263

(Recommend the advisor be contacted prior to transfer)

<b>Junior Year</b>			<b>Senior Year</b>		
ECON 3610 Business Statistics I	3		ACCT 3720 Survey of Accounting		3
ME 3010 or MET 3100	3		BMGT 3510 Management & Organization Behavior		3
MATH 1845 Technical Calculus	3		FIN 3210 Prin of Managerial Finance		3
MET 2000 Occupational Safety	2		LAW 2810 Business Legal Environment and Ethics		3
MET 2065 Metal Manufacturing Technology	2		MKT 3400 Prin of Marketing		3
MET 2400 Statics and Strength of Materials	3		MET 3150 Maintenance Technology I		2
MET 2615 Engineering Technology Ethics and Professionalism	1		MET 4620 Senior Projects		6
MET 3003 Principles of Metal Casting	3		Area of Concentration <sup>2</sup>		15
MET 3200 Applied Electricity and Electronics	3				
MET 3303 CAD for Technology	3				
MET 3403 Applied Machine Element	3				
MET 3713 Methods Design and Work Measurement	3				
<b>Total</b>	<b>32</b>		<b>Total</b>		<b>38</b>

<sup>1</sup>Select one of the following concentrations:

Concentration I - Mechatronics Engineering Technology

MET 3060, MET 3260, ECE 3270, MET 4250 are required. Select two courses from: MET 4000,

MET 4210, MET 4220, or MET 4990.

Concentration II - Engineering Technology Management

MET 4310, MET 4550, and MET 4650 are required. Select two courses from: MET 3703, MET 4600, and

MET 4990.

**Students must complete 50 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.**

# **ARMY ROTC**

## **RESERVE OFFICERS TRAINING CORPS**

### **OBJECTIVE**

The objective of the Reserve Officers' Training Corps (ROTC) is to prepare selected students to serve as officers in the Army Reserve, Army National Guard, and Active Army.

### **ENROLLMENT REQUIREMENTS**

The general requirements for enrollment in ROTC are:

1. Be a citizen of the United States,
2. Physically and mentally qualified,
3. Accepted by the university as a full-time student,
4. Morally qualified,
5. For non-ROTC scholarship students, complete graduation requirements prior to reaching age 28, and
6. For ROTC scholarship students, complete graduation requirements prior to reaching age 25.

### **TWO-YEAR ROTC PROGRAMS**

There are two options available to students who transfer from institutions without ROTC programs:

Option 1: Students will attend the ROTC Leaders Training Course (LTC) at Fort Knox, Kentucky. (In order to attend LTC, students need the permission of the Professor of Military Science at the school they will attend.) After LTC, students enroll in the ROTC Advanced Course as Military Science (MS) III's and take the MS III courses for two semesters. The following summer, students attend Leader Development and Assessment Course (LDAC). The next school year, they enroll as MS IV's for two semesters and receive a commission as a Second Lieutenant upon graduation.

Option 2: Students who have completed basic training with any military service of the United States, or have attended one of the United States Service Academies for at least one year, will receive credit for the ROTC Basic Course and will not have to attend LTC. These students will begin ROTC as MS III's. They will attend LDAC the following year, enroll as MS IVs and be commissioned upon graduation. Students who have had four years of ROTC in high school can, at the discretion of the Professor of Military Science, be given placement credit for the basic course and will enter as MS III's without attending LTC.

### **FINANCIAL AID**

Students who attend institutions that do not have ROTC are eligible to apply for the ROTC two-year scholarships before attending LTC. The scholarship will pay Fall & Spring Semester tuition, selected fees, and a book allowance. All students enrolled in the ROTC Advanced Course and all scholarship students receive a monthly subsistence allowance during the school year. Students are also paid for the period of their attendance at the Leader's Training Course (LTC) and the Leader Development Assessment Course (LDAC).

### **COMMISSIONING REQUIREMENTS**

In order to receive commissions, students must meet Tennessee Tech graduate requirements, complete required ROTC courses, meet the Army height/weight requirements, and pass the Army Physical Fitness Test.

7/15/20

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