

TRANSFER AGREEMENT

2015-16

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.

CONTENTS

Transfer Agreement Policies	i
Admission Standards	i
Application	i
Expenses	i
Scholarship Information	i
Undergraduate Colleges and Departments	ii
Questions Directory	ii
College of Education	1
College of Engineering	8
Army ROTC	11
Index	12

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 for the major of your choice for additional information.

Application

1. Apply online at www.tntech.edu/transfer. 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.
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 transferable 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 COMPASS 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 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 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 (or call 931-372-3414) for more information.

Physical Address: Mailing Address:
Admissions Office
TTU Admissions Office
Derryberry Hall (Room 209) P.O. Box 5006
1 William L. Jones Dr.
Cookeville, TN 38505
Cookeville, TN 38505

Contact Information:
Phone: (931) 372-3888
Toll Free: (800) 255-8881
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.*****

Expenses

For the list of current fees, check the Bursar's web site at www.tntech.edu/bursar/

Scholarship Information

Scholarship opportunities are available for transfer students. For scholarship information, check the scholarship website at <http://www.tntech.edu/scholarships/> The scholarship deadline date is December 15 for the next academic year.

Undergraduate Colleges and Departments

College of Agriculture and Human Ecology

School of Agriculture
School of Human Ecology

College of Arts and Sciences

Biology
Chemistry
Communication
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

Art
Appalachian Center for Crafts
Counseling and Psychology
Curriculum and Instruction
Exercise Science, Physical Education & Wellness
Music

College of Engineering

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

College of Interdisciplinary Studies

School of Nursing

Questions? Contact:

Academic Records	Registrar, Derryberry Hall 102	372-3317
Admissions	Admissions Office, Derryberry Hall 209	372-3888
Athletics	Athletics, Hooper Eblen 300	372-3940
Auto Registration	Safety & Security,	372-3234
Bills	Business Office, Derryberry Hall 100	372-3311
Books and Supplies	University Store, 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
Advising Center	T.J. Farr Building 103	372-6336
Engineering	Dean's Office, Clement Hall 201	372-3172
Interdisciplinary Studies	Dean's Office Southwest Hall 146	372-3394
School of Nursing	Advisors, Nursing and Health Services Building 208	372-3229
Counseling	Counseling Center, University Center 307	372-3331
Financial Aid	Financial Aid Office, University Center 214	372-3073
Fraternities	Student Organizations Office, University Center 234	372-3236
Housing	Office of Residential Life, MS Cooper 217	372-3414
Religious Opportunity	Student Organizations Office, University Center 234	372-3236
Student Government	Student Organizations Office, University Center 234	372-3236
Student Organizations	Student Organizations Office, University Center 234	372-3236
Teacher Certification	College of Education, Bartoo Hall 301	372-3170
Veteran Certification	Registrar, Derryberry Hall 102	372-3317

COLLEGE OF EDUCATION

Admission to the Teacher Education Program for Undergraduate Students

The undergraduate admission process applies to students pursuing a bachelor's degree and transfer students that received the AS or AAS Degrees from a community college. Students fitting this category receive full admission to the Teacher Education Program upon meeting the following requirements:

1. Completion of a minimum of 30 credit hours (excluding ADP courses)
2. Meet GPA Requirement: Due to upcoming changes, please see the Office of Teacher Education's web-page for the most up-to-date information. That information can be found at <https://www.tntech.edu/education/teachered/admission-to-tep/>.
3. Completion of ENGL 1010 and ENGL 1020 or equivalent with a grade of "C" or higher
4. Completion of FOED 1820 or FOED 1822 or equivalent with a grade of "B" or higher and FOED 2011 or equivalent with a grade of "B" or higher
5. Submission of an application for admission to the Teacher Education Program upon completion of 30 credit hours
6. Submission of the Interview Request form and satisfactory completion of interview process
7. Submission of the Background Check Authorization form and completion of the TTU background check and fingerprinting process
8. Submission of the Disposition Request form. Three satisfactory disposition assessments must be submitted by the student's: (1) advisor, (2) professional education instructor, and (3) a college instructor in the student's major teaching field
9. Meet Testing Requirement: Due to upcoming changes, please see the Office of Teacher Education's web-page for the most up-to-date information. That information can be found at <https://www.tntech.edu/education/teachered/admission-to-tep/>.

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 following website: <https://www.tntech.edu/education/teachered/admission-to-tep/>.

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

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.

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/>

OFFICE OF TEACHER EDUCATION

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

Students who completed the AST (Associate Science in Teaching) Degree through a community college will have completed some 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 final official transcripts from the community college) and meet the following requirements:

1. Submission of an application for admission to the Teacher Education Program upon completion of 30 credit hours
2. Submission of the Interview Request form and satisfactory completion of interview process
3. Submission of the Background Check Authorization form and completion of the TTU background check and fingerprinting process
4. Testing Requirement: Due to upcoming changes, please see the Office of Teacher Education's webpage for the most up-to-date information. That information can be found at <https://www.tntech.edu/education/teachered/admission-to-tep/>.

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 following website: <https://www.tntech.edu/education/teachered/admission-to-tep/>.

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

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.

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/>

MULTIDISCIPLINARY STUDIES: ELEMENTARY EDUCATION (K-5)

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE IN TEACHING

Freshman Year		F	SP	Sophomore Year		F	SP
ART 1030 or MUS 1030		3	0	BIOL 1310	Integrated Biology	3	0
CHEM 1310	Integrated Chemistry	0	3	ECED 2360	Development of Exceptional		
ED 201	Foundations of Education	3	0		Children	0	3
ENGL 1010, 1020	Composition I, II	3	3	ED 203	Child and Adolescent Development		
MATH 1410	Structure of Number				in the Classroom	3	0
	System I	0	3	ENGL Literature	General Education Elective	3	3
MATH 1530	Introductory Statistics	3	0	GEOG 2010	World Regional Geography	0	3
PHYS 1310	Integrated Physics	3	0	HIST 2010, 2020	United States History I, II	3	3
POLS 1030 or SOCI 1010	American Government OR			MATH 1420	Structure of Number		
	Introduction to Sociology	0	3		System II	3	0
SPCH 1010	Fund. of Speech			PSCI 1310	Integrated Earth &		
	Communication	0	3		Space Science	3	0
	Total	15	15		Total	15	15

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

Advisor: Dr. Jeremy Wendt , Department Chairperson
 Bartoo Hall 311, Phone: (931) 372-3181

Junior Year				Senior Year			
ARED 3200	Art Applications	1		ELED 4871	Residency I		5
CUED 4700	Educational Data and Assessment	2		ELED 4872	Professional Seminar I		5
ECSP 4100	Developmentally Appropriate			ELED 4881	Residency II		10
	Practices: K-4	3		ELED 4882	Professional Seminar II		2
ELED 3140	Teaching of Social Studies	2		CUED 4800	Student Engagement		3
ELED 3152	Teaching of Mathematics	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					
MUS 3540	Music in Elementary	1					
READ 3311	Literacy I	7					
SPED 3000	Teaching Persons with Disabilities						
	in the Regular Classroom	3					
	Total		35		Total		25

Students must complete 60 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.

The student may be required to meet revisions in the various curricula necessitated by changing standards of the National Council for Accreditation of Teacher Education or by requirements of the State Board of Education for teacher licensure.

9/10/15

SECONDARY EDUCATION - BIOLOGY

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

Freshman Year	F	SP	Sophomore Year	F	SP
CHEM 1110 General Chemistry I	4	0	Humanities/Fine Arts Elective	3	0
ED 201 Foundations of Education	3	0	BIOL 1110, 1120 General Biology I, II	4	4
ENGL 1010, 1020 Composition I, II	3	3	EDPY 207 Educational Psychology	0	3
HIST 2010, 2020 United States History I, II	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	0	3
			GEOL 1040 Physical Geology	4	0
			MATH 1710 Pre-calculus I	0	3
			SPCH 1010 Fund. of Speech Comm.	0	3
Total	16	14	Total	14	16

TENNESSEE TECHNOLOGICAL UNIVERSITY
SECONDARY EDUCATION - BIOLOGY
BACHELOR OF SCIENCE DEGREE

Advisor: Dr. Jeremy Wendt, Department Chairperson
Bartoo Hall 311, Phone: (931) 372-3181

Junior Year	F	SP	Senior Year	F	SP
BIOL 2010 Human Anatomy and Physiology	4	0	SEED 4871 Residency I	5	0
BIOL 2110 General Botany	4	0	SEED 4872 Professional Seminar I	5	0
BIOL 3130 General Ecology	4	0	SEED 4881 Residency II	10	0
BIOL 3140 Cellular Biology	4	0	SEED 4882 Professional Seminar II	2	0
BIOL 3810 General Genetics	4	0	SPED 3000 Teaching Persons with Disabilities		
FOED 3010 Integrating IT into the Classroom	3	0	in the Regular Classroom	3	0
FOED 3820 Field Experience in Education	2	0			
PHYS 2010 Algebra-based Physics I	4	0			
READ 3350 Teaching Reading in the Content					
Areas	3	0			
SEED 4123 Materials & Methods of Teaching					
the Sciences	3	0			
Total	35	0	Total	25	0

Students must complete 60 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.

The student may be required to meet revisions in the various curricula necessitated by changing standards of the National Council for Accreditation of Teacher Education or by requirements of the State Board of Education for teacher licensure.

SECONDARY EDUCATION - CHEMISTRY

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

Freshman Year	F	SP	Sophomore Year	F	SP
BIOL 1010, 1020 Intro to Biology I, II	4	4	Humanities/Fine Arts Elective	3	0
ED 201 Foundations of Education	3	0	EDPY 207 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 United States History I, II	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		
Social/Behavioral Science Elective	0	3	World I or II	0	3
Elective	0	1	SPCH 1010 Fund. of Speech Comm.	0	3
			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

Advisor: Dr. Jeremy Wendt, Department Chairperson
Bartoo Hall 311, Phone: (931) 372-3181

Junior Year		Senior Year	
ASTR 1010 or 1020 or 1030	4-3	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	
FOED 3820 Field Experiences in Education	2	in the Regular Classroom	3
MATH 1710 Pre-calculus I	3		
MATH 1830 Concepts of 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 60 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.

The student may be required to meet revisions in the various curricula necessitated by changing standards of the National Council for Accreditation of Teacher Education or by requirements of the State Board of Education for teacher licensure.

9/10/15

SECONDARY EDUCATION - EARTH SCIENCE

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

Freshman Year	F	SP	Sophomore Year	F	SP
BIOL 1010, 1020 Intro to Biology I, II	4	4	EDPY 207 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 United States History I, II	3	3	ENGL 2410 or 2420 Lit of the Western		
MATH 1530 Intro Statistics	3	0	World I or II	0	3
MATH 1830 Calculus for Management, Life and Social Sciences	0	3	SPCH 1010 Fund. of Speech Comm.	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
			MATH 1710 Pre-calculus I	0	3
Total	16	16	Total	14	15

TENNESSEE TECHNOLOGICAL UNIVERSITY
 SECONDARY EDUCATION - EARTH SCIENCE
 BACHELOR OF SCIENCE DEGREE
 Advisor: Dr. Jeremy Wendt, Department Chairperson
 Bartoo Hall 311, Phone: (931) 372-3181

Junior Year		Senior Year		
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			
Total		35	Total	25

Students must complete 60 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.

The student may be required to meet revisions in the various curricula necessitated by changing standards of the National Council for Accreditation of Teacher Education or by requirements of the State Board of Education for teacher

SECONDARY EDUCATION - MATHEMATICS

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

Freshman Year	F	SP	Sophomore Year	F	SP
Science Sequence	4	4	Humanities/Fine Arts Elective	3	0
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 United States History I, II	3	3	ENGL 2410 or 2420 Lit of the Western		
MATH 1910, 1920 Calculus w/Analytic			World I or II	0	3
Geometry I, II	4	4	MATH 2010 Linear Algebra	3	0
			MATH 2110 Calculus w/Analytic		
			Geometry III	0	4
			MATH 2120 Differential Equations	0	3
			SPCH 1010 Fund. of Speech Comm.	0	3
			Social/Behavioral Science Electives	3	3
			PHED Activity	1	0
Total	17	14	Total	14	16

TENNESSEE TECHNOLOGICAL UNIVERSITY SECONDARY EDUCATION - MATHEMATICS BACHELOR OF SCIENCE DEGREE

Advisor: Dr. Jeremy Wendt, Department Chairperson
Bartoo Hall 311, Phone: (931) 372-3181

Junior Year			Senior Year		
FOED 3010 Integrating IT into the Classroom	3		SEED 4322 Teaching Algebra in Middle/High		
FOED 3820 Field Experiences in Education	2		School		3
MATH 3070 Statistical Methods I	3		SEED 4871 Residency I		5
MATH 3400 Intro to Concepts of Mathematics	3		SEED 4872 Professional Seminar I		5
MATH 3430 College Geometry	3		SEED 4881 Residency II		10
MATH 4010, 4050, 4350 or 4360	3		SEED 4882 Professional Seminar II		2
MATH 4210 Numerical Analysis I	3		SPED 3000 Teaching Persons with		
MATH 4610 or 4620	3		Disabilities in the Regular Classroom	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		32	Total		28

Students must complete 60 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.

9/10/15

COLLEGE OF ENGINEERING

DEPARTMENT OF CHEMICAL ENGINEERING

CHEMICAL ENGINEERING

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

Freshman Year	F	SP	Sophomore Year	F	SP
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		
HIST 2010, 2020 United States History I, II ¹	3	3	ENGL 2410 or 20 Lit of the Western World I or II		
MATH 1910, 1920 Calculus I, II	4	4	MATH 2110 Calculus III	4	0
CISP 185 C++ Languages	3	0	MATH 2120 Differential Equations	0	3
ENGR 2110 Statics	0	3	PHYS 2110, 2120 Calculus-Based Physics I, II	4	4
Social/Behavioral Science Elective	0	3	SPCH 1010 Fund. of Speech Comm.	0	3
			Humanities/Fine Arts Elective	3	3
			Social/Behavioral Science Elective	3	0
Total	17	20	Total	14	16

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)

Junior Year ²	F	SP	Senior Year	F	SP
CHE 1510 Intro to Chemical and Biological Process and Scaling I	3		CHE 4131 Transfer Science III: Diffusion and Diffusive-Convective Mass Transfer	4	
CHE 2020 Intro to Chemical & Biological Process Analysis and Scaling II	3		CHE 4210 Chemical Reaction Engineering	4	
CHE 3730 CHE Operations	3		CHE 4240 Chemical Engineering Capstone Lab	1	
CHE 3010 Thermodynamics of Chemical Processes	3		CHE 4540 Process Dynamics & Control	3	
CHE 3021 Separations and Solution Thermodynamics	4		CHE 4410, 4420 Process Design I, II	6	
CHE 3111 Transfer Science I	4		ChE Technical Electives ³	6	
CHE 3121 Transfer Science II	4		CHE 4910 Professionalism and Ethics in CHE	1	
CHEM 3010, 3020 Organic Chemistry I, II	8		CHEM 3510, 3520 Physical Chemistry	8	
Technical Elective ³	3				
Total	35		Total	33	

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

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

³Three 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. CEE 2100
- d. Any course with the prior approval of the ChE Undergraduate Program Coordinator.
- e. Note that CEE 2100, BIOL 3200, and ECE 3810 cannot count both as a Technical Elective and as part of the CEE 2100/ECE 3810/BIOL 3200 option.

⁴Three hours of ChE Technical Electives must come from one of the following courses:

- a. ChE 4330--Polymer Engineering
- b. ChE 4661--Transport in Biochemical and Biological Processes
- c. ChE 4950--MEMS
- d. ChE 4990--Undergraduate Research

Students must complete 60 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

Freshman Year	F	SP	Sophomore Year	F	SP
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 United States History I, II ¹	3	3
Social/Behavioral Science Elective	0	3	MATH 2010 Linear Algebra	3	0
			MATH 2120 Differential Equations	0	3
			PHYS 2110, 2120 Calculus-Based Physics I, II	4	4
			SPCH 1010 Fund. of Speech Comm.	0	3
			Social/Behavioral Science Elective	3	0
			CISP 185 C++ Language I	3	0
Total	14	13	Total	16	16

TENNESSEE TECHNOLOGICAL UNIVERSITY
COMPUTER ENGINEERING - BACHELOR OF SCIENCE DEGREE

Advisor: Dr. Charles Carnal, Faculty Advisor

Brown Hall 217, Phone: (931) 372-3397

(Recommend the advisor be contacted prior to transfer)

Third Year			Fourth Year		
CSC 2101	Problem Solving and Computer Programming Lab	1	ECE 3020	Discrete-Time Signals and Systems	3
CSC 2110	Data Structures and Algorithms	3	ECE 3060	EE Lab II	1
CSC 2111	Data Structures and Algorithms Lab	1	ECE 3300	Electronics I	3
ECE 2001	Computer Aided Engineering in ECE	1	ECE 3160	Digital Systems Laboratory	1
ECE 2010	Electric Circuits I	3	ECE 3130	Microcomputer Systems	4
ECE 2011	EE Lab I	1	CSC 2400	Design of Algorithms	3
ECE 2110	Intro to Digital Systems	3	CSC 2500	Unix Laboratory	1
ECE 2020	Electric Circuits II	3	CSC 3030	Practical and Professional Issues in Computer Science	1
ECE 3010	Signals & Systems	3	CSC 4200	Computer Networks	3
MATH 2110	Calculus III	4		Total	19
MATH 3470	Intro Probability and Statistics	3			
	Total	26			

Fifth Year		
ECE 4910	Professional Issues in ECE	1
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 Lab Elective ²		1
EE Elective ²		3
CmpE Engr. Elective ²		3
CSC 4100	Operating Systems	3
CS Elective ²		3
	Total	29

¹HIST 2010 and 2020 United States History are not required for the Bachelor of Science degree in Computer Engineering.

²Select from the ECE Department approved list.

Students must complete 60 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.

9/10/15

DEPARTMENT OF MANUFACTURING AND ENGINEERING TECHNOLOGY

ENGINEERING TECHNOLOGY

CHATTANOOGA STATE COMMUNITY COLLEGE

DEGREE: ASSOCIATE OF SCIENCE

Freshman Year	F	SP	Sophomore Year	F	SP
CHEM 1010 or 1110	4	0	ECON 2010 or 2020	0	3
CISP 185 C++ Language I	0	3	ENGL 2110 or 20American Literature I or II	0	3
ENGL 1010, 1020Composition I, II	3	3	ENGL 2210 or 20English Literature I or II		
MATH 1710, 1720Pre-calculus I, II	3	4	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
MD 184 Mfg. Processes	0	3	PHYS 2010, 2020 or 2110, 2120	4	4
Humanities/Fine Arts Electives	3	3	PSYC 1030 General Psychology	3	0
			SPCH 1010 Fund. of Speech Comm.	0	3
Total	16	16	Total	10	16

TENNESSEE TECHNOLOGICAL UNIVERSITY
ENGINEERING TECHNOLOGY - BACHELOR OF SCIENCE DEGREE

Advisor: Dr. Ahmed Elsayy, Department Chairperson
Lewis Hall 107, Phone: (931) 372-3263

(Recommend the advisor be contacted prior to transfer)

Junior Year		Senior Year	
ECON 3610 Business Statistics I	3	ACCT 3720 Survey of Accounting	3
ME 3110 Physical Metallurgy & Heat Treatment	3	BMGT 3510 Management & Organization Behavior	3
MATH 1845 Technical Calculus	3	Business Elective ¹	3
MET 2000 Occupational Safety	2	DS 3520 Operations Management	3
MET 2063 Metal Manufacturing Technology	3	MET 4200 Industrial Electronics	3
MET 2400 Statics and Strength of Materials	3	MET 4310 Plant Layout & Materials Handling	3
MET 3000 Principles of Metal Casting	2	MET 4615 Engineering Technology Ethics and Professionalism	1
MET 3130 Maintenance Technology I	3	MET 4620 Senior Projects	3
MET 3200 Applied Electricity and Electronics	3	Area of Emphasis ²	12
MET 3301 CAD for Technology	2		
MET 3700 Manufacturing Cost Estimating	2		
MET 3710 Methods Design and Work Measurement	2		
MET 3730 Quality Assurance	2		
Total	36	Total	34

¹Business Electives: BMGT 3630, BMGT 4520, DS 3620, DS 3540, FIN 3210, LAW 3810 or MKT 3400.

²Select one of the following emphases:

Emphasis I - Manufacturing Engineering Technology

MET 3060, MET 3403 and select 2 courses from: MET 3010, MET 3080, MET 3460, MET 3560, MET 4010, MET 4060, MET 4140, MET 4210, MET 4220, MET 4300, MET 4400, MET 4450, MET 4500, MET 4550, MET 4600, MET 4650, MET 4990; ESS 3710, and ME 4430

Emphasis II - Technology Management

Select 4 courses from: BMGT 3630, BMGT 4520, DS 3620, DS 3540, FIN 3210, LAW 3810, MET 4010, MET 4430, MKT 3400, PSY 3400.

Students must complete 60 hours at senior institution with 36 hours of upper-division credit at the 3000-4000

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.

9/10/15

INDEX

(Alphabetized by College)

College of Education	
Admission to Teacher Education	1
Department of Curriculum and Instruction	
Multidisciplinary Studies: Elementary Education (K-5)	3
Secondary Education Biology	5
Secondary Education Chemistry	6
Secondary Education Earth Science	7
Secondary Education Mathematics	4
College of Engineering	
Department of Chemical Engineering.....	8
Department of Electrical and Computer Engineering	9
Department of Manufacturing and Engineering Technology.....	10
ROTC.	11

INDEX
(Alphabetized by Major)

Chemical Engineering8
Computer Engineering.....9
Engineering Technology10
Multidisciplinary Studies: Elementary Education (K-5).....3
ROTC11
Secondary Education Biology.....5
Secondary Education Chemistry6
Secondary Education Earth Science.....7
Secondary Education Mathematics.....4