

# TRANSFER AGREEMENT

2020-21

Walters State Community College

Tennessee Technological University

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

## CONTENTS

Transfer Agreement Policies	i
Admissions Standards	i
Application	i
Expenses	i
Scholarship Information	i
Undergraduate Colleges and Departments	ii
Questions Directory	ii
College of Agriculture and Human Ecology	1
College of Engineering	2
Army ROTC	4
Index	5

## Transfer Agreement Policies

1. This publication is a transfer agreement between Walters 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 to Walters State.
3. Students entering Walters State must meet all the standards and follow the procedures of the current Walters State catalog.
4. Students entering Tennessee Technological University must meet the standards and follow the procedures of the current Tennessee Tech undergraduate catalog.
5. This agreement assumes that student will complete an associate degree at Walters 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 admissions which supersede all others.
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 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.

## Admissions Standards

Under this agreement, in order to be eligible for admission to Tennessee Tech, you must have an associate degree from Walters 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/admissions/apply](http://www.tntech.edu/admissions/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) at the end of the application. If you choose not to pay at this time, you can log back into the online portal to pay later.
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.

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 am-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 and  
Wellness

### College of Engineering

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

### College of Fine Arts

Art, Craft, and Design  
Appalachian Center for Crafts  
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 122	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 & Human Ecology	Dean's Office, Oakley Hall 122	372-3149
Arts & Sciences	Dean's Office, Henderson Hall 202	372-3118
Student Success Center	Henderson Hall Room 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 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	Southwest Hall 146	372-6238
School of Nursing	Academic Advisors, Nursing and Health Services	372-3229
Counseling	Counseling Center, Roaden University Center 307	372-3331
Fraternities	Student Activities & Campus Life, Roaden University Center 234	372-3236
Financial Aid	Financial Aid Office, Jere Whitson 302	372-3073
Housing	Office of Residential Life, MS Cooper 217	372-3414
Religious Opportunity	Student Activities & Campus Life, Roaden University Center 234	372-3236
Student Government	Student Activities & Campus Life, Roaden University Center 234	372-3236
Student Organizations	Student 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 324	372-3070

**COLLEGE OF AGRICULTURE AND HUMAN ECOLOGY**  
**SCHOOL OF AGRICULTURE**  
**AGRICULTURE**

**Turfgrass Management Concentration**

WALTERS STATE COMMUNITY COLLEGE

Degree: Associate of Science

**Freshman Year**

ENGL 1010, 1020	Composition I, II	6
MATH 1530, 1630, 1830 or 1910		3-4
CHEM 1110, 1111, 1120, 1121		8
AGRI 1020, 1021	Introduction to Animal Science	4
AGRI 1030, 1031	Introduction to Plant Science	4
INFS 1010	Computer Applications	3
COMM 2025	Fundamentals of Communication	3

Total 31-32

**Sophomore Year**

BIOL 2210, 2211	General Botany I	4
ENGL 2110, 2120	American Literature I, II or	
ENGL 2410, 2420	Western World Lit. I, II	3
HIST 2010, 2020	American History I, II	6
ECON 2010, 2020	Macroeconomics, Microeconomics	6
AGRM 1610, 1611	Turf Power Equipment	3
	Humanities/Fine Arts Electives <sup>1</sup>	6
MATH 1530, 1630, 1830 or 1910		3-4

Total 31-32

TENNESSEE TECHNOLOGICAL UNIVERSITY

Dr. Bruce Greene, Director Phone: (931) 372-3019

**Junior Year**

AGBE 2100	Economics of Agriculture	3
AGHE1020	Connections in Agriculture and Human Ecology	1
ACCT 2110, 2120	Principles of Accounting I, Principles of Accounting II	6
AGET 3320	Small Power Equipment	2
AGET 3325	Small Power Equipment Lab	1
AGRN 3100	Turfgrass Management	3
AGHT 3470	Landscape Plant Materials	3
AGBE 3400	Agricultural Finance	3
Upper Division Ag Elective <sup>2</sup>		3
BIOL 3330	Entomology	3
AGRN 3000	Soils	4
MATH 1130,1530, 1630, 1730, 1830 or 1910		3-4

Total 33

**Senior Year**

AGHE 2022	Professionalism in Agriculture and Human Ecology	1
AGHE 3000, 3200 or 3275		3
AGHE 4500	Senior Seminar	1
AGHT 3030	Integrated Pest Management	3
AGRN 4100	Weed Science	3
AGRN 4210	Soil Fertility & Fertilizers	3
AGBE 4030	Agribusiness Management	3
	Directed Business Electives <sup>3</sup>	6
	Upper Division Ag Elective <sup>2</sup>	3
	Elective	1

Total 27

<sup>1</sup>Select two courses from Walters States approved General Education Humanities/Fine Arts list.

<sup>2</sup>No more than one course from any Agriculture discipline (AGBE, AGED, AGET, AGHE, AGHT, AGRN and ANS).

<sup>3</sup>Choose two courses (six hours) from the following: LAW 2810, BMGT 3510, BMGT 3630, MKT 3400, MKT 3430, MKT 4500.

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

**AGRICULTURE****Agriculture Education Concentration****WALTERS STATE COMMUNITY COLLEGE**

Degree: Associate of Science

**Freshman Year**

ENGL 1010, 1020	Composition I, II	6
MATH 1530	Introductory Statistics	3
CHEM 1010, 1011	Introductory Chemistry I, Lab	4
AGRI 1020, 1021	Introduction to Animal Science	4
AGRI 1030, 1031	Introduction to Plant Science	4
ICOMM 2025	Fundamentals of Communication	3
Electives		2

Total 26

**Sophomore Year**

BIOL 1120, 1121	General Biology II, Lab	4
EDUC 2210	Educational Psychology	3
ENGL 2110, 2120	American Literature I, II or	
ENGL 2410, 2420	Western World Lit. I, II	3
HIST 2010, 2020	American History I, II	6
Social/Behavioral Electives <sup>1</sup>		6
AGRM 1610, 1611	Turf Power Equipment	3
Humanities/Fine Arts Electives <sup>1</sup>		6

Total 31

**TENNESSEE TECHNOLOGICAL UNIVERSITY**

Dr. Bruce Greene, Director Phone: (931) 372-3019

**Junior Year**

AGBE 2100	Economics of Agriculture	3
AGHE1020	Connections in Agriculture and Human Ecology	1
AGED 2120	Intro to Ag and Extension Ed	3
AGED 4110	Methods of Teaching Agriscience	3
AGHT 3410	Plant Propagation	3
ANS 3130	Animal Breeding	3
FOED 3010	Integrating Instructional Technology into the Classroom	3
AGED 4200	Methods and Techniques of Teaching in Agricultural and Extension Education	3
AGED 4300	Development of Youth Programs in Agricultural and Extension Ed	3
AGRN 2000	Soil and the Environment	3
AGHT 4410 or 4420		3
MATH 1130	College Algebra	3

Total 31

**Senior Year**

AGHE 2022	Professionalism in Agriculture and Human Ecology	1
AGED 4871	Residency I	5
AGED 4872	Professional Seminar I	5
AGED 4881	Residency II	10
AGED 4882	Professional Seminar II	2
AGHE 4500	Senior Seminar	1
Upper Division Agriculture Elective <sup>2</sup>		3
SPED 3000	Teaching Persons with Disabilities in the Regular Classroom	3

Total 30

<sup>1</sup>Select ECON 2100, ECON 2200, PSY 1030 or SOCI 1010.<sup>2</sup>No more than one course from any Agriculture discipline (AGBE, AGED, AGET, AGHE, AGHT, AGRN and ANS).**Students must complete 50 hours at senior institution with 36 hours of upper-division credit at the 3000-4000 level.**

**AGRICULTURE**

**Agriculture Engineering Concentration**

WALTERS STATE COMMUNITY COLLEGE

Degree: Associate of Science

**Freshman Year**

ENGL 1010, 1020	Composition I, II	6
MATH 1530, 1630, 1830 or 1910		3-4
CHEM 1110, 1120	Introductory Chemistry I & II	8
AGRI 1020, 1021	Introduction to Animal Science	4
AGRI 1030, 1031	Introduction to Plant Science	4
INFS 1010	Computer Applications	3
COMM 2025	Fundamentals of Communication	3

Total 31-32

**Sophomore Year**

BIOL1010, 1020, 1120, 2310; PHYS 2010 or 2020	8
ENGL 2110, 2120 American Literature I, II or	
ENGL 2410, 2420 Western World Lit. I, II	3
HIST 2010, 2020 American History I, II	6
Social/Behavioral Electives <sup>1</sup>	6
AGRM 1610, 1611 Turf Power Equipment	3
Humanities/Fine Arts Electives <sup>1</sup>	6
Elective	0-1

Total 28-29

TENNESSEE TECHNOLOGICAL UNIVERSITY

Dr. Bruce Greene, Director Phone: (931) 372-3019

**Junior Year**

AGHE1020	Connections in Agriculture and Human Ecology	1
AGBE 2100	Economics of Agriculture	3
AGRN 3000	Soils	4
ACCT 3720	Survey of Accounting	3
AGET 1500	Practical Applications in Agricultural Systems	2
AGET 3110, 3115	Natural Resource Systems, Lab	3
AGET 3320, 3325	Small Power Equipment, Lab	3
AGET 3540	Fundamentals of GIS and GPS in Ag and Natural Resources	3
AGET 3620	Computer-Aided Design in Ag	3
Upper Division Ag Elective <sup>2</sup>		6

Total 28-29

**Senior Year**

AGHE 2022	Professionalism in Agriculture and Human Ecology	1
AGET 3520	Agricultural Spatial Technologies I	3
AGET 4610	Greenhouse Structures and Landscaping Equipment	3
BMGT 3510	Management and Organization Behavior	3
AGET 4220, 4225	Agricultural Machinery and Tractors, Lab	3
AGET 4620	Agricultural Structures	3
AGET 4720	Agricultural Processing	3
AGET 4850	Engineering Technology Design for Agriculture	3
AGHE 4500	Senior Seminar	1
Upper Division Ag Elective <sup>2</sup>		3
AGHE 3000, 3200, or 3275		3
AGET 3510, 3560/3565, 4510, 4520, 4540, 4940, 4950, 4960, 4970, 4980; AGR 4920, 3940, 3950 or 3960		3

Total 28

<sup>1</sup>Select two courses from Walters States approved General Education list.

<sup>2</sup>No more than one course from any Agriculture discipline (AGBE, AGED, AGET, AGHE, AGHT, AGRN and ANS).

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

# COLLEGE OF ARTS AND SCIENCES

## DEPARTMENT OF BIOLOGY

### WILDLIFE AND FISHERIES SCIENCE

#### Conservation Biology Concentration

#### WALTERS STATE COMMUNITY COLLEGE

Degree: Associate of Science

#### Freshman Year

ENGL 1010, 1020 Composition I, II  
 BIOL 1110, 1111, 1120, 1121  
     General Biology I, II  
 MATH 1530 or 1830  
 COMM 2025 Fundamentals of Communication  
 Humanities/Fine Arts Elective<sup>1</sup>  
 Social/Behavioral Elective<sup>1</sup>  
 Electives

Total 30

#### Sophomore Year

6 CHEM 1010, 1011/1020, 1021 or  
     1110, 1111/1120, 1121 8  
 8 ENGL 2110, 2120 American Literature I, II or  
 3 ENGL 2410, 2420 Western World Lit. I, II 3  
 3 HIST 2010, 2020 American History I, II 6  
 3 GEOL 1030, 1031 Survey of Geology, Lab 4  
 3 MATH 1710 Pre-calculus Algebra 3  
 4 Humanities/Fine Arts Elective<sup>1</sup> 3  
     Social/Behavioral Elective<sup>1</sup> 3

Total 30

#### TENNESSEE TECHNOLOGICAL UNIVERSITY

Advisor: Dr. Chris Brown, Department Chairman - Pennebaker Hall 207, Phone: (931) 372-3134

#### Junior Year

BIOL 1000 Intro to Biological Methods 1  
 BIOL 2310 General Botany 4  
 BIOL 3240 Field Botany 3  
 BIOL 3810 General Genetics 4  
 BIOL 3920 Biological Communication Skills 3  
 BIOL 4330 Plant Ecology 3  
 GEOL 2000 Earth Evolution and Life  
     History 3  
 MATH 3070 or WFS 4220 3  
 Science Directed Electives<sup>2</sup> 3-4  
 WFS 3130 General Ecology 4  
 WFS 4500 National Wildlife Policy 3

Total 34-35

#### Senior Year

BIOL 3330 or 4610 3  
 WFS 4700 Habitat Management 3  
 WFS 4711 Fisheries Management 3  
 WFS 4810 or 4830 3  
 WFS 4630 or 4820 3  
 WFS 4730 Conservation Biology 3  
 WFS 4740 Wildlife Principles 2  
 Science Directed Electives<sup>2</sup> 3-4  
 Electives 3-4

Total 26

<sup>1</sup> Choose two courses from AGHT 3450, AGRN 3000, BIOL 3530, BIOL 4320, BIOL 4840, WFS 4770 and GEOG 4410 or GEOG 4510 or WFS 4870 (only one of these final three courses will count toward this requirement.)



**WILDLIFE AND FISHERIES SCIENCE****Fisheries Science Concentration**WALTERS STATE COMMUNITY COLLEGE

Degree: Associate of Science

**Freshman Year**

ENGL 1010, 1020	Composition I, II	6
BIOL 1110, 1111, 1120, 1121	General Biology I, II	8
MATH 1530 or 1830		3
COMM 2025	Fundamentals of Communication	3
Humanities/Fine Arts Elective <sup>1</sup>		3
Social/Behavioral Elective <sup>1</sup>		3
Electives		4

Total 30

**Sophomore Year**

CHEM 1010, 1011/1020, 1021 or 1110, 1111/1120, 1121		8
ENGL 2110, 2120	American Literature I, II or	
ENGL 2410, 2420	Western World Lit. I, II	3
HIST 2010, 2020	American History I, II	6
GEOL 1030, 1031	Survey of Geology, Lab	4
MATH 1710	Pre-calculus Algebra	3
Humanities/Fine Arts Elective <sup>1</sup>		3
Social/Behavioral Elective <sup>1</sup>		3

Total 30

TENNESSEE TECHNOLOGICAL UNIVERSITY

Advisor: Dr. Chris Brown, Department Chairman - Pennebaker Hall 207, Phone: (931) 372-3134

**Junior Year**

BIOL 1000	Intro to Biological Methods	1
BIOL 2310	General Botany	4
BIOL 3240	Field Botany	3
BIOL 3810	General Genetics	4
BIOL 3920	Biological Communication Skills	3
GEOL 2000	Earth Evolution and Life History	3
MATH 3070 or WFS 4220		3
Science Directed Elective <sup>2</sup>		3-4
WFS 3130	General Ecology	4
WFS 4500	National Wildlife Policy	3

Total 31-32

**Senior Year**

BIOL 4610	Invertebrate Zoology	3
BIOL 4780	Phycology	3
WFS 4710	Fisheries Management	4
WFS 4740	Wildlife Principles	2
WFS 4760	Fish Culture	4
WFS 4810	Ichthyology	3
WFS 4840	Limnology	3
Science Directed Electives <sup>2</sup>		3-6
Electives		2-4

Total 29

<sup>1</sup> Choose two courses from AGRN 3000, BIOL 3530, BIOL 4330, WFS 4730, WFS 4700, WFS 4770, and GEOG 4410 or GEOG 4510 or WFS 4870 (only one of these final three courses will count toward this requirement.)

**WILDLIFE AND FISHERIES SCIENCE****Wildlife Science Concentration**WALTERS STATE COMMUNITY COLLEGE

Degree: Associate of Science

**Freshman Year**

ENGL 1010, 1020	Composition I, II	6
BIOL 1110, 1111, 1120, 1121	General Biology I, II	8
MATH 1530 or 1830		3
COMM 2025	Fundamentals of Communication	3
	Humanities/Fine Arts Elective <sup>1</sup>	3
	Social/Behavioral Elective <sup>1</sup>	3
	Electives	4

Total		30
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**Sophomore Year**

CHEM 1010, 1011/1020, 1021 or 1110, 1111/1120, 1121		8
ENGL 2110, 2120	American Literature I, II or	
ENGL 2410, 2420	Western World Lit. I, II	3
HIST 2010, 2020	American History I, II	6
GEOL 1030, 1031	Survey of Geology, Lab	4
MATH 1710	Pre-calculus Algebra	3
	Humanities/Fine Arts Elective <sup>1</sup>	3
	Social/Behavioral Elective <sup>1</sup>	3

Total		30
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TENNESSEE TECHNOLOGICAL UNIVERSITY

Advisor: Dr. Chris Brown, Department Chairman - Pennebaker Hall 207, Phone: (931) 372-3134

**Junior Year**

BIOL 1000	Intro to Biological Methods	1
BIOL 2310	General Botany	4
BIOL 3240	Field Botany	3
BIOL 3810	General Genetics	4
BIOL 3920	Biological Communication Skills	3
BIOL 4330	Plant Ecology	3
GEOL 2000	Earth Evolution and Life History	3
MATH 3070 or WFS 4220		3
	Science Directed Elective <sup>2</sup>	3-4
WFS 3130	General Ecology	4
WFS 3500	Wildlife Law Enforcement	3

Total		34-35
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**Summer (Course offered summer only)**

WFS 4790	Wildlife Techniques	6
	Total	6

**Senior Year**

AGHT 3450	Dendrology	3
WFS 4500	National Wildlife Policy	3
WFS 4660	Wild Bird Ecology	3
WFS 4670	Wild Mammal Ecology	3
WFS 4700	Habitat Management	3
WFS 4740	Wildlife Principles	2
WFS 4830	Herpetology	3
	Science Directed Electives <sup>2</sup>	3-6

Total		23-26
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<sup>1</sup> Choose two courses from AGHT 3450, AGRN 3000, BIOL 3530, BIOL 4320, BIOL 4840, WFS 4770, and GEOG 4410 or GEOG 4510 or WFS 4870 (only one of these final three courses will count toward this requirement.)

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

8/17/20

WALTERS STATE COMMUNITY COLLEGE

Degree: Associate of Science -- Emphasis -- Pre-Engineering

**Freshman Year<sup>2</sup>**

CHEM 1110, 1111, 1120, 1121	General Chemistry I, II w/lab	8
CISP 1010, 1011	Computer Science I OR	
CPSC 2170, 2171	Computer Programming Math/ Engineering	4 or 3
MATH 1910, 1920	Calculus I, II	8
ENGL 1010, 1020	Composition I, II	6
COMM 2025	Fundamentals of Communication	3
Approved Humanities/Fine Arts Elective		3
Approved Social/Behavioral Science Electives		3

Total 33-36

**Sophomore Year**

CHEM 2010, 2011, 2020, 2021		
	Organic Chemistry I, II w/lab	8
ENGL 2110 or 2120	American Literature I or II <u>OR</u>	
ENGL 2410 or 2420		
	Western World Lit. I or II	3
PHYS 2110, 2111, 2120, 2121		
	Physics I, II w/ Lab	8
MATH 2010	Introduction to Linear Algebra	3
MATH 2110	Calculus III	4
MATH 2120	Differential Equations	3
HIST 2010, 2020 <sup>2</sup>	American History I, II	6
Approved Humanities/Fine Arts Elective		3
Approved Social/Behavioral Science Elective		3

Total 33

TENNESSEE TECHNOLOGICAL UNIVERSITY

Advisor: Dr. Pedro Arce, Department Chairman - Prescott Hall 214, Phone: (931) 372-3297  
(Recommend advisor be contacted prior to transfer.)

**Junior Year<sup>3</sup>**

CHE 1020	Processes, Products and Ethics	1
CHE 2015, 2020	Intro to Chemical and Biological Process Analysis and Scaling I, II	6
CHE 3010	Thermodynamics of Chem Processes	3
CHE 3021	Separations & Solution Thermodynamics	4
CHE 3111	Transfer Science I: Conduction, Radiation, and Diffusion	4
CHE 3121	Transfer Science II: Fluid Mechanics	4
CHE 375	Chemical Engineering Operations	2
Technical Elective <sup>4</sup>		3

Total 26

**Senior Year**

CHE 4131	Transfer Science III: Diffusion and Diffusive-Convection Mass Transfer	4
CHE 4210	Chemical Reaction Engineering	4
CHE 4250	ChE Capstone Lab	2
CHE 4410, 4420	Process Design I, II	6
CHE 4540	Process Dynamics & Control	3
ChE Technical Electives <sup>5</sup>		6
CHEM 3510, 3520	Physical Chemistry	8
Technical Elective <sup>4</sup>		3

Total 36

1. HIST 2010, 2020 American History I, II are requirements for the AS degree at Walters State only.
2. Walters State students are required to fulfill computer competency requirements within the first thirty hours of college level work by either passing a computer competency exam or passing INFS 1010.
3. Students must apply to the CHE Fast-Track MS program by the end of their second junior term.
4. 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.
5. 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

### WALTERS STATE COMMUNITY COLLEGE

Degree: Associate of Science-- Emphasis -- Pre-Engineering

#### Freshman Year<sup>3</sup>

ENGL 1010, 1020	Composition I, II	6
MATH 1910, 1920	Calculus I, II	8
CHEM 1110, 1111	General Chemistry I w/lab	4
	Approved Humanities/Fine Arts Elective	3
	Approved Social/Behavioral Science Elective	3
CISP 1010, 1011 <sup>1</sup>	Computer Science I	4
COMM 2025	Fundamentals of Communication	3

Total 31

#### Sophomore Year

CISP 1020	Computer Science II	4
ENGL 2110 or 2120	American Literature I or II <u>OR</u>	
ENGL 2410 or 2420		
	Western World Lit. I or II	3
PHYS 2110, 2111, 2120, 2121		
	Physics I, II w/ Lab	8
MATH 2010	Introduction to Linear Algebra	3
HIST 2010, 2020 <sup>2</sup>	American History I, II	6
	Approved Humanities/Fine Arts Elective	3
	Approved Social/Behavioral Science Elective	3

Total 30

### TENNESSEE TECHNOLOGICAL UNIVERSITY

Advisor: Carol McGee, Professional Advisor - Clement Hall 318, cmcgee@tntech.edu  
(Recommend advisor be contacted prior to transfer.)

#### Third Year

CSC 2400	Design of Algorithms	3
ECE 2001	Computer Aided Engineering in ECE	1
ECE 2010	Electric Circuits I	3
ECE 2011	EE Lab I	1
ECE 2020	Electric Circuits II	3
ECE 2110	Intro to Digital Systems	3
MATH 2110	Calculus III	4
MATH 2120	Differential Equations	4
MATH 3470	Introductory Probability and Statistics	3
	Total	25

#### Fourth Year

CSC 2500	Unix Lab	1
CSC 4200	Computer Networks	3
ECE 3010	Signals & Systems	3
ECE 3020	Discrete-Time Signals and Systems	3
ECE 3060	EE Lab II	1
ECE 3130	Microcomputer Systems	4
ECE 3300	Electronics I	3
ECE 3160	Digital Systems Laboratory	1
ECE 4140	Embedded System Design	3
ECE 3920	Professional Issues in ECE	1
CmpE Elective <sup>4</sup>		1
	Total	24

#### Fifth Year

ECE 4961, 4971	Capstone Design I, II	6
ECE 4110	Digital System Design	3
ECE 4120	Fundamentals of Computer Design	3
EE elective <sup>4</sup>		3
CmpE Elective <sup>4</sup>		4
CSC 4100	Operating Systems	3
CS Elective <sup>4</sup>		3
	Total	25

<sup>1</sup>Elective course is a requirement for the AS degree in pre-engineering at Walters State only. Prerequisite--CPSC 1230/31 or four years of high school math

<sup>2</sup>HIST 2010, 2020 American History I, II are requirements for the AS degree at Walters State only.

<sup>3</sup>Walters State students are required to fulfill computer competency requirements within the first thirty hours of college level work by either passing a computer competency exam or passing INFS 1010.

<sup>4</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.**

**ARMY ROTC**  
**RESERVE OFFICERS TRAINING CORPS**

**OBJECTIVE**

The objective of the Army 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 Army ROTC are:

1. Be a citizen of the United States.
2. Be physically and mentally qualified.
3. Be accepted by the university as a full time student.
4. Be morally qualified.
5. Army ROTC non-scholarship students, complete graduation requirements prior to reaching age 28, and
6. Army 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 Army 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 Advance 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 graduation requirements, complete required Military Science courses, meet the Army height/weight requirements, and pass the Army Physical Fitness Test.

**INDEX**  
**(Alphabetized by College)**

College of Agriculture and Human Sciences  
    School of Agriculture  
        Agriculture-Turfgrass Management Concentration ..... 1

College of Engineering  
    Department of Chemical Engineering ..... 2  
    Department of Electrical and Computer Engineering..... 3

Army ROTC ..... 4

Chemical Engineering .....	2
Computer Engineering.....	3
Army ROTC .....	4
Turfgrass Management (Agriculture Concentration).....	1