University Curriculum Committee

January 30, 2025, Meeting Minutes

The University Curriculum Committee met on **Thursday, January 30, 2025,** at **3:01 p.m. via Teams.**

Members Present:

Michael Allen	Melinda Anderson	Curtis Armstrong	Julie Baker
Indranil Bhattacharya	Jeff Boles	Scott Christen	Scott Christen
Brittany Copley	Kent Dollar	Brandi Fletcher	Steve Frye
Julie Galloway	Gerald Gannod	Kim Hanna	Steve Hayslette
Colin Hill	Michael Hoane	Sharon Huo	Barbara Jared
Christy Killman	Jeannette Luna	Hayden Mattingly	Lori Maxwell
Kelly McCallister	Allan Mills	Ben Mohr	Linda Null
Thomas Payne	Richard Rand	Mohan Rao	Lindsey Roberts
Stephen Robinson	Jennifer Shank	Martin Sheehan	Darron Smith
Matthew Smith	Daren Snider	Dennis Tenant	Fred Vondra
Jeremy Wendt (Chair)	Kevin West	Kim Winkle	Kumar Yelamarthi
Lisa Zagumny			

Members Absent:

Sean Alley	James Baier	Mike Gotcher	Robby Sanders
Omar Abdelsalam (student representative)	Abigail Jo Breeden (student representative)	John Craw (student representative)	Augusta Long (student representative

Official Representative(s):

Steve Isbell for Sean Alley	Kris Craven for Chris Wilson		

Guest(s):

Mary McCaskey	Deborah Allen	Autumn McDaniel	Lenley Weathers
Angie Briggs			

Agenda – January 30, 2025

Item #	Department	Agenda Item
01	UCC	Approval of Agenda
02	UCC	Approval of 10/31/24 Minutes
03a	Economics, Finance & Marketing	1 New Course ECON
03b	Economics, Finance & Marketing	1 New Course ENTR
04a	Curriculum and Instruction	1 New Course, 1 Course Change
04b	Curriculum and Instruction	2 Curriculum Changes
05a	Psychology	1 Course Change
05b	Psychology	1 Course Change
06a	Computer Science	1 Course Change
06b	Computer Science	3 Curriculum Changes
07	Chemical Engineering	2 New Courses
08	Biology	10 New Courses
09	Sociology & Political Science	2 Curriculum Changes
10	General & Industrial Engineering	2 Curriculum Changes (1 memo, 2 different effective dates)
11a	Nursing	1 Course Change
11b	Nursing - accelerated BSN	14 Course Changes
11c1	Nursing	1 Curriculum Change
11c2	Nursing - accelerated BSN	1 Curriculum Change
12	Other Such Matters	
	Dr. Curtis Armstrong	SACSCOC faculty credentials
	Dr. Lenley Weathers	QEP Freshman Class

* Academic Council and THEC Approval Required

Proceedings:

Confirming that a quorum was present, Dr. Jeremy Wendt called the meeting to order via Teams at 3:03 p.m..

1. **Approval of Agenda**
   Motion to approve: Julie Baker
   Second: Lisa Zagumny
   Vote: Motion Carried

2. **Approval of Minutes, October 31, 2024**
   Motion to approve: Julie Baker
   Second: Lisa Zagumny
   Vote: Motion Carried

3. **Economics, Finance and Marketing**
   a. New course
      i. ECON 3500- Sports Economics
      Lee. 3. Credit 3.
      Pre-requisite: ECON 2010, or consent of instructor. This course is designed to give students an economic understanding of professional and amateur sports. Topics to be studied include the economics of how amateur and professional sports leagues are organized, labor markets in sports, and the economic impact sports have on their communities.

      Justification
      The Economics, Finance, and Marketing has previously offered this course as a Special Topics course. It has been popular and successful. We intend to offer it once per year or every other year as demand necessitates.
      Effective: Spring 2025

      Financial Impact: None

      Effective: Fall 2025

   b. New Course
      i. ENTR 4000 - Leadership on Location
      ~~Lec. 1-3. Credit 1-3.~~ REVISED- l credit hour
      Pre-requisite: [Consent of instructor. Requires Junior or Senior Standing and must be a College of Business major.]

      Students enrolled in this course will discover techniques to develop new leaders and motivate staff. the process to provide excellent customer service and to develop team collaboration, and methods to infuse low-cost- high-impact practices into daily operations. The course will feature hands-on experiences during a trip on location to innovative corporations, focusing on how these

corporations deploy marketing, effective communication, and critical thinking. Course may be taken more than once as topics change.

Financial Impact: None

Effective: Spring 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

4. **Curriculum and Instruction**
    a. Course Changes
        i. New Course

ECED 4275 Internship 1 Seminar
Lec. 9. Credit 9.
Corequisite: 4280. Advanced internship seminar course prepares students for immersive engagement in an early childhood agency. Provides necessary preparation for internship placements.

        ii. Course Change

ECED 4280 Early Childhood Internship II
Lec. 7. Credit 7.
Prerequisite: ECED 4230(5230). Corequisite: ECED 4275. Continued, supervised work experience in an early childhood related field with professional-level responsibilities.
Add: Corequisite: ECED 4275.

Justification: Adding a seminar allows preparation for the expectation of internship and mirrors the licensure pathway.

Financial Impact: none

Effective: Fall 2025

    b. Curriculum Changes
        i. **Early Childhood Practitioner, Generalist B.S.**

Junior Year First Semester
From:
FOED 3810-Field Experiences in Education (credit 1-2, 2 required)
Total: 14

To:
Total: 12

Senior Year First Semester
From:
ECED 4221-Early Intervention Field Experience (credit 1-3, 2 required) ECED 4270-Early Childhood Internship I (credit 3-7, 7 required) Total: 14

To:
ECED 4221-Early Intervention Field Experience (credit 1-3 3 required) ECSP 4500-Supportive Interactions & Env. in ECED (credit 3)
FOED 3810-Field Experiences in Education (credit 1-2, 2 required) FOED 3880-Practicum Early Special Education (credit 2)

Total: 15

Senior Year Second Semester
From:
ECED 4260-Early Chldhd Prog Lead, Admin, Assess (credit 8) ECED 4280-Early Childhood Internship II (credit 7)
Total: 15

To:
ECED 4275-Intemship 1 Seminar (credit 9)
ECED 4280-Early Childhood Internship II (credit 7)
Total: 16

ii**. Special Education Practitioner, B.S.**

(Note: Changing from yearly class listing to semester class listing with other minor edits)

Freshman Year
From:
ENGL 1010-English Composition I (credit 3)
ENGL 1020-English Composition II (credit 3)
FOED 2050-Education and Technology (credit 3)
GEOG 1012-Cultural Geography (credit 3)
HIST 2010-Early United States History (credit 3)
HIST 2020-Modern United States History (credit 3)
MATH 1410-Number Concepts for Teachers (credit 3)
MATH 1420-Geometry Concepts for Teachers (credit 3)
Natural Sciences (Gen Ed) (credit 3-4)
Total: 27-28

To:
Freshman Year First Semester
ENGL 1010-English Composition I (credit 3)
FOED 2050-Education and Technology (credit 3) HIST 2010-Early United States History (credit 3) MATH 1410-Number Concepts for Teachers (credit 3) Natural Sciences (Gen Ed) (credit 4)
Total: 16

Sophomore Year
From:
PSY 2210-Educational Psychology (credit 3)
Electives (credit 4)
ENGL 2130-Topics in American Literature (credit 3) OR ENGL 2235-Topics in British Literature (credit 3) OR ENGL 2330-Topics in World Literature (credit 3)
FOED 3010-Integrating Inst Tech into the Class (credit 3) Humanities/Fine Arts Elective (Gen Ed) (credit 6)
Natural Sciences (Gen Ed) (credit 3-4)
PHYS 13 IO-Concepts of Physics (credit 3)
Social/Behavioral Sciences Elective (Gen Ed) (credit 3) SPED 2010-Introduction to Special Education (credit 3)
Total: 31-32

To:
Sophomore Year First Semester
Advisor Guided Electives (credit 5)
PSY 2210-Educational Psychology (credit 3)
E GL 2130-Topics in American Literature (credit 3) OR ENGL 2235-Topics in British Literature (credit 3) OR ENGL 2330-Topics in World Literature (credit 3)
SPED 2010-Introduction to Special Education 3
Total: 14
Sophomore Year Second Semester
FOED 3010-Integrating Inst Tech into the Class (credit 3) Humanities/Fine Arts Elective (Gen Ed) (credit 6)
Social/Behavioral Sciences Elective (Gen Ed) (credit 3)
COMM 2025-Fundamentals of Communication (credit 3) OR PC 2500-Coromunicating in the Professions (credit 3)
Total: 15

Junior Year
From:
COMM 2025-Fundamentals of Communication (credit 3) OR
PC 2500-Communicating in the Professions (credit 3)
EXPW 2150-Human Sexuality (credit 3)
EXPW 2430-First Aid, Safety and CPR (credit 2)
EXPW 4520-Adapted Physical Activity & Sport (credit 3)
SPED 3020-Characteristics & Needs of Prsns w/Comp Disab (credit 3)
SPED 3031-Phy Mgmnt & Sprt Svcs for Ortho, Mtr & Hlth Impaired (credit 3)
SPED 3110-Behavior Concepts (credit 3)
SPED 3120-Interventions and Supports (credit 3)
SPED 4200(5200)-Teaching Students w/Autism Spec Disorders (credit 3)
Electives (credit 6)
MATH (credit 3)
Total: 35

To:
Junior Year First Semester
Advisor Guided Electives (credit 4)
EXPW 2430-First Aid, Safety and CPR (credit 2)
LIST 4050-American Sign Language I (credit 3)
SPED 303 I-Phy Mgmnt & Sprt Svcs for Ortbo Mtr & Hlth Impaired (credit 3)
SPED 4030-Applied Behavior Analysis for Teachers (credit 3)
Total: 15
Junior Year Second Semester
Advisor Guided Electives (credit 7)
EXPW 4520-Adapted Physical Activity & Sport (credit 3)
SPED 4200(5200)-Teaching Students w/Autism Spec Disorders (credit 3) LIST 4090-American Sign Language II (credit 3)
Total: 16

Senior Year
From:
ECED 3600-Families, Communities, & Professionals (credit 2) SPED 4110-Behavioral Assessment (credit 3)
SPED 4120-Topics in Behavior (credit 3)
SPED 4170- Community Residency/Practicum I (credit 7) SPED 4180-Community Residency/Practicum II (credit 9) Elective (credit 1)
Total: 25

To:
Senior Year First Semester
Advisor Guided Electives (credit 5)
SPED 3025-Comprehensive Disabilities (credit 4)
SPED 4170- Community Residency/Practicum I (credit 7)
Total: 16

Senior Year Second Semester
SPED 4120-Topics in Behavior (credit 3)
SPED 4180-Community Residency/Practicum II (credit 9)
Total: 12

Additional Note on Program of Study
From:
Note: Natural Science courses may be 3 or 4 credit hours. Three credit hour Natural Science concept courses are recommended. A minimum of eight credit (8) hours is required.

To:
No additional note on Program of Study.

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

Early Childhood Practitioner, B.S.

Freshman Year

Freshman Year First Semester	Cr.Hrs.	Freshman Year Second Semester	Cr. Hrs.
ENGL 1010-English Composition I	3	COMM 2025-Fundamentals of Communication **OR**	3
FOED 2050-Education and Technology	3	PC 2500-Communicating in the Professions	
Humanities/Fine Arts Elective (Gen Ed)	3	ENGL 1020-English Composition II	3
MATH 1410-Number Concepts for Teachers	3	HIST 2010-Early United States History	3
Natural Sciences (BIOL)	3-4	MATH 1420-Geometry Concepts for Teachers	3
Total: 15-16		Natural Sciences (non-BIOL)	3-4
		Total: 15-16	

Sophomore Year

Sophomore Year First Semester	Cr.Hrs.	Sophomore Year Second Semester	Cr. Hrs.
Advisor Guided Electives	3	ECSP 2400-Children with Special Needs	3
ECSP 2500-The Developing Child: Pre-Birth to Age 8	3	FOED 3010-Integrating Instr Tech into Clasrm	3
ENGL 2130-Topics in American Literature **OR**	3	HIST 2020-Modern United States History	3
ENGL 2235-Topics in British Literature **OR**		Social/Behavioral Sciences Elective (Gen Ed)	3
ENGL 2330-Topics in World Literature		**Total: 12**	
Humanities/Fine Arts Elective (Gen Ed)	3		
Social/Behavioral Sciences Elective (Gen Ed)	3		
Total: 15			

Junior Year

Junior Year First Semester	Cr.Hrs.	Junior Year Second Semester	Cr.Hrs.
ECED 4290(5290)-Community Connections	3	ECED 4230(5230)-Early Intervention I	3
ECSP 3001-Curric for Infants, Toddlers, and Presch	3	ECED 4261-Early Childhood Advocacy & Leadership	6-8 (7 hrs required)
ECSP 4100-Dev Appropriate Practices: K-4	3	ECSP 4000-Dev Approp Practices: Birth - Presch	3
ECSP 4300(5300)-Assessment of Young Children	3	ECSP 4010-Practicum: Preschool Practices	2
~~FOED 3810-Field Experiences in Education~~	~~1-2 (2 required)~~	READ 3330-Inclusive Emergent Literacy	3
Total: ~~14~~ 12		**Total: 18**	

Senior Year

Senior Year First Semester	Cr.Hrs.	Senior Year Second Semester	Cr.Hrs.
ECED 3600-Families, Communities, & Professionals	2	~~ECED 4260-Early Childhd Prog Lead, Admin, Assess~~	~~8~~
ECED 4221-Early Intervention Field Experience	1-3 (~~3~~ 3 required)	ECED 4275-Internship 1 Seminar	9
ECED 4240(5240)-Early Intervention II	3	ECED 4280-Early Childhood Internship II	7
~~ECED 4270-Early Childhood Internship I~~	~~3-7 (7 required)~~	**Total: ~~15~~ 16**	
ECSP 4500-Supportive Interactions & Env. in ECED	3		
FOED 3810-Field Experiences in Education	1-2 (2 required)		
FOED 3880-Practicum Early Special Education	1-3 (2 required)		
Total: ~~14~~ 15			

NOTES:

[1]Overall, the program must include at least 36 hours of upper division.
[2]HEC majors and ECED Practitioner majors may take advisor approved upper division courses without admission to Teacher Education.

Note: Natural Science courses may be 3 or 4 credit hours. Three credit hour Natural Science concept courses are recommended. A minimum of eight credit (8) hours is required.

Items in RED voted on November 12, 2024

Special Education Practitioner, B.S.

Freshman Year

Freshman Year First Semester	Cr. Hrs.
ENGL 1010-English Composition I	3
~~ENGL 1020-English Composition II~~	~~3~~
FOED 2050-Education and Technology	3
~~GEOG 1012-Cultural Geography~~	~~3~~
HIST 2010-Early United States History	3
~~HIST 2020-Modern United States History~~	~~3~~
MATH 1410-Number Concepts for Teachers	3
~~MATH 1420-Geometry Concepts for Teachers~~	~~3~~
Natural Sciences (Gen Ed)	~~3-4~~ 4
Total: ~~27-28~~ **16**	

Freshman Year Second Semester	Cr. Hrs.
ENGL 1020-English Composition II	3
GEOG 1012-Cultural Geography	3
HIST 2020-Modern United States History	3
MATH 1420-Geometry Concepts for Teachers	3
Natural Sciences (Gen Ed)	4
Total: 16	

Sophomore Year

Sophomore Year First Semester	Cr. Hrs.
Advisor Guided Electives	5
PSY 2210-Educational Psychology	3
~~Electives~~	~~4~~
ENGL 2130-Topics in American Literature **OR**	3
ENGL 2235-Topics in British Literature **OR**	
ENGL 2330-Topics in World Literature	
~~FOED 3010-Integrating Inst Tech into the Class~~	~~3~~
~~Humanities/Fine Arts Elective (Gen Ed)~~	~~6~~
~~Natural Sciences (Gen Ed)~~	~~3-4~~
~~PHYS 1310-Concepts of Physics~~	~~3~~
~~Social/Behavioral Sciences Elective (Gen Ed)~~	~~3~~
SPED 2010-Introduction to Special Education	3
Total: ~~31-32~~ **14**	

Sophomore Year Second Semester	Cr. Hrs.
FOED 3010-Integrating Inst Tech into the Class	3
Humanities/Fine Arts Elective (Gen Ed)	6
Social/Behavioral Sciences Elective (Gen Ed)	3
COMM 2025-Fundamentals of Communication OR	3
PC 2500-Communicating in the Professions	
Total: 15	

Junior Year

Junior Year First Semester	Cr. Hrs.
Advisor Guided Electives	4
~~COMM 2025-Fundamentals of Communication OR~~	~~3~~
~~PC 2500-Communicating in the Professions~~	
~~EXPW 2150-Human Sexuality~~	~~3~~
EXPW 2430-First Aid, Safety and CPR	2
~~EXPW 4520-Adapted Physical Activity & Sport~~	~~3~~
LIST 4050-American Sign Language I	3
~~SPED 3020-Characteristics & Needs of Prsns w/Comp~~	~~3~~
SPED 3031-Phy Mgmnt & Sprt Svcs for Ortho, Mtr & Hlth Im	3
~~SPED 3110-Behavior Concepts~~	~~3~~
~~SPED 3120-Interventions and Supports~~	~~3~~
SPED 4030-Applied Behavior Analysis for Teachers	3
~~SPED 4200(5200)-Teaching Students w/Autism Sp~~	~~3~~
~~Electives~~	~~6~~
~~MATH~~	~~3~~
Total: ~~35~~ **15**	

Junior Year Second Semester	Cr. Hrs.
Advisor Guided Electives	7
EXPW 4520-Adapted Physical Activity & Sport	3
SPED 4200(5200)-Teaching Students w/Autism Spec Disc	3
LIST 4090-American Sign Language II	3
Total: 16	

Senior Year

Senior Year First Semester	Cr. Hrs.
Advisor Guided Electives	5
~~ECED 3600-Families, Communities, & Professionals~~	~~2~~
~~SPED 4110-Behavioral Assessment~~	~~3~~
~~SPED 4130-Topics in Behavior~~	~~3~~
SPED 3025-Comprehensive Disabilities	4
SPED 4170- Community Residency/Practicum I	7
~~SPED 4180-Community Residency/Practicum II~~	~~9~~
~~Elective~~	~~1~~
Total: ~~35~~ **16**	

Senior Year First Semester	Cr. Hrs.
SPED 4120-Topics in Behavior	3
SPED 4180-Community Residency/Practicum II	9
Total: 12	

~~Note: Natural Science courses may be 3 or 4 credit hours. Three credit hour Natural Science concept courses are recommended. A minimum of eight credit hours is required.~~

Items in RED voted on November 12, 2024

5. **Psychology**
    a. Course Change
        i. FROM:
        PSY 3010 Stats & Experimental Design
        Lec. 2. Lab. 2. Credit 3.
        Prerequisites: PSY 1030, 3 additional PSY credit hours, a grade of B or higher in MATHl1130 or MATH 1530; 45 hours of completed course work and be a psychology major. Corequisite: PSY 3020. Fundamental statistics for the behavioral sciences, descriptive uses, probability, one-way, factorial designs, repeated measures and split-plot designs, bivariate correlation and regression, and non-parametrics.

        TO:
        PSY 3010 Stats & Experimental Design
        Lec . 3. Credit 3.
        Prerequisites: PSY 1030, 3 additional PSY credit hours, a grade of B or higher in MATH 1130orMATH 1530orMATH 1630orMATH 1710orMATH 1720or MATH 1730 or MATH 1830 or MATH 19 10; 45 hours of completed course work and be a psychology major. Corequisite: PSY 3020. Fundamental statistics for the behavioral sciences, descriptive uses, probability, one-way, factorial designs, repeated measures and split-plot designs, bivariate correlation and regression, and non-parametrics.

        Justification: This adjustment of credit allocation better fits the standardized course schedule provided by the university. The lab content currently included in this course can be easily integrated into the 3 contact hours for lecture.

        Financial Impact: None

        Effective: Fall 2025

    b. Course Change
        i. FROM:
        PSY 4140 (5140) Health Psychology
        Lee. 2. Lab. 1. Credit 3.
        Prerequisite: PSY 3110 or consent of instructor. Biopsychosocial approach to examining how stress, personality, and lifestyle are related to physical health. Students will experientially explore a variety of coping strategies and relaxation techniques geared toward self-assessment and understanding. Student enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

        TO:
        PSY 4140 (5140) Health Psychology
        Lee. 3. Credit 3.
        Prerequisite: PSY 3110 or consent of instructor. Biopsychosocial approach to examining how stress, personality, and lifestyle are related to physical health.

Students will experientially explore a variety of coping strategies and relaxation techniques geared toward self-assessment and understanding. Student enrolled in the 5000-level course will be required to complete additional work as stated in the syllabus.

Justification: This adjustment of credit allocation better fits the standardized course schedule provided by the university. The lab content currently included in this course can be easily integrated into the 3 contact hours for lecture.
Financial Impact: None

Effective: Fall 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

6. **Computer Science**
   a. Course Change
   Change Pre-requisites for CSC 4260
   Current wording: CSC 3220, CSC 3300 and MATH 2010.
   Proposed wording: CSC 3300; MATH 2010; and a C or better in CSC 3220.

   Justification: An advanced course in data science (CSC 4260) requires a solid understanding of the data science basics, and as such, a student should not be allowed to take the advanced course with a subpar understanding of the fundamentals (CSC 3220). (Syllabus Attached)

   Financial Impact: none

   Effective Date: Fall 2025

   b. 3 Curriculum Changes

   Change "CSC elective" to "CSC elective: CSC 2000 and above"

   This change is needed to restrict upper classmen from taking 1000 level electives covering teaching material that they have already received in other upper division courses. All our 1000 levels courses are either required or serve as prerequisites for other courses in the programs. It was observed that upper classmen take the 1000 level courses as electives to fulfill the program requirement, without adding significant intellectual skills to their learning. Changing the allowed elective levels will ensure students to take some more advanced courses (at 2000 level or above), and will contribute to their skills and knowledge. (Attached degree maps with highlighted changes)

Financial Impact: None.

Effective Date: Fall 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

College of Engineering
TENNESSEE TECH

Degree Map for FIRST LAST T00123456

CATALOG YEAR: 2025-2026 | **Degree:** BS | **MAJOR:** Computer Science | *Concentration:* Cyber Security

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction. Course Completed Course in Progress Course Recommended for Next Semester

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall — Total Credit Hours: 15		Semester: Spring — Total Credit Hours: 17	
CSC 1020 Connections to Computing[1]	1	CSC 1310 Data Structures & Algorithms	4
CSC 1300 Into to Programming	4	MATH 1920 Calculus II	4
MATH 1910 Calculus I	4	COMM 2025 or PC 2500-Communication	3
ENGL 1010 Writing Composition I	3	ENGL 1020 Writing Composition II	3
HIST 2010 Early US History	3	HIST 2020 Modern US History	3
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
SOPHOMORE YEAR			
Semester: Fall — Total Credit Hours: 16		Semester: Spring — Total Credit Hours: 16	
CSC 2310 Object Oriented Programming	4	CSC 2570 Intro to Cyber and Privacy	3
CSC 2400 Design of Algorithms	3	CSC 2770 Intro to Systems & Networking	3
CSC 2510 Intro to DevOps with Unix	3	CSC 3710 Found of Comp Science	3
CSC 2700 Discrete Structure for Comp Sci	3	Science Sequence[3]	4
English Literature[2]	3	Social/Behavioral Science Elective	3
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
JUNIOR YEAR			
Semester: Fall — Total Credit Hours: 15		Semester: Spring — Total Credit Hours: 14	
CSC 3300 Database Management Sys	3	CSC 3040 Profess, Comm, and Research	3
CSC 3410 Comp Org and Assembly	3	CSC 4320 Comp Architecture	3
CSC 3570 IT Security **FALL**	3	CSC 4575 Cryptography & Network Sec **SPRING**	3
MATH 2010 Intro to Linear Algebra	3	Elective	2
Humanities/Fine Arts Elective	3	Humanities/Fine Arts Elective	3
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
SENIOR YEAR			
Semester: Fall — Total Credit Hours: 15		Semester: Spring — Total Credit Hours: 12	
CSC 4200 Comp Networks	3	CSC 4100 Operating Systems	3
CSC 4585 Software and Systems Security **FALL**	3	CSC 4615 Software Engineering II	2
CSC 4610 Software Engineering I	3	CSC Elective[4]	3
MATH 3070 or MATH 3470	3	Science Sequence[3]	4
Social/Behavioral Science Elective	3		

Notes:

1. Not required for transfer students with more than 12 hours; transfer students take 1 credit hour free elective
2. English Literature: ENGL 2130, or ENGL 2235, or ENGL 2330
3. Science Sequence: One science sequence
   - BIOL 1113 and BIOL 1123 OR BIOL 1113 and BIOL 2310 OR
   - CHEM 1110 and CHEM 1120 OR
   - GEOL 1040 and GEOL 1045 OR
   - PHYS 2010 and PHYS 2020 OR PHYS 2110 and PHYS 2120
4. CSC Elective: Any additional 2000 or above level CSC course

College of Engineering

TENNESSEE TECH

Degree Map for **FIRST LAST** T00123456

CATALOG YEAR: 2025-2026 | **Degree:** BS | **MAJOR:** Computer Science | *Concentration:* Data Science

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction. *Course Completed* | *Course in Progress* | *Course Recommended for Next Semester*

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall — Total Credit Hours: 15		Semester: Spring — Total Credit Hours: 17	
CSC 1020 Connections to Computing[1]	1	CSC 1310 Data Structures & Algorithms	4
CSC 1300 Into to Programming	4	MATH 1920 Calculus II	4
MATH 1910 Calculus I	4	ENGL 1020 Writing Composition II	3
ENGL 1010 Writing Composition I	3	HIST 2020 Modern US History	3
HIST 2010 Early US History	3	Social/Behavioral Science Elective	3
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
SOPHOMORE YEAR			
Semester: Fall — Total Credit Hours: 17		Semester: Spring — Total Credit Hours: 16	
CSC 2310 Object Oriented Programming	4	CSC 2220 Data Sci and AI for Everyone	3
CSC 2510 Intro to DevOps with Unix	3	CSC 2400 Design of Algorithms	3
CSC 2700 Discrete Structure for CompSci	3	MATH 3070 or MATH 3470	3
Science Sequence[3]	4	Science Sequence[3]	4
COMM 2025 or PC 2500-Communication	3	English Literature[2]	3
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
JUNIOR YEAR			
Semester: Fall — Total Credit Hours: 15		Semester: Spring — Total Credit Hours: 15	
CSC 3220 Fund of Data Science **FALL**	3	CSC 3040 Prfess, Comm, and Research	3
CSC 3300 Database Management Sys	3	CSC 3710 Found of Comp Science	3
CSC 3410 Comp Org and Assembly	3	CSC 4220 Data Mining & Mach Learning **SPRING**	3
MATH 2010 Intro to Linear Algebra	3	CSC 4320 Comp Architecture	3
Humanities/Fine Arts Elective	3	Humanities/Fine Arts Elective	3
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
SENIOR YEAR			
Semester: Fall — Total Credit Hours: 12		Semester: Spring — Total Credit Hours: 13	
CSC 4100 Operating Systems	3	CSC 4200 Comp Networks	3
CSC 4240 Artificial Intelligence **FALL**	3	CSC 4260 Adv Data Science & Apps **SPRING**	3
CSC 4610 Software Engineering I	3	CSC 4615 Software Engineering II	2
Social/Behavioral Science Elective	3	CSC Elective[4]	3
		Elective	2

Notes:

1. Not required for transfer students with more than 12 hours; transfer students take 1 credit hour free elective
2. English Literature: ENGL 2130, or ENGL 2235, or ENGL 2330
3. Science Sequence: One science sequence
   - BIOL 1113 and BIOL 1123 OR BIOL 1113 and BIOL 2310 or
   - CHEM 1110 and CHEM 1120 or
   - GEOL 1040 and GEOL 1045 or
   - PHYS 2010 and PHYS 2020 OR PHYS 2110 and PHYS 2120
4. CSC Elective: Any additional 2000 or above level CSC course

College of Engineering
TENNESSEE TECH

Degree Map for FIRST LAST T00123456

CATALOG YEAR: 2025-2026 | **Degree:** BS | **MAJOR:** Computer Science
Concentration: High Performance Computing

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction. Course Completed | Course in Progress | *Course Recommended for Next Semester*

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall — Total Credit Hours: 15		Semester: Spring — Total Credit Hours: 14	
CSC 1020 Connections to Computing[1]	1	CSC 1310 Data Structures & Algorithms	4
CSC 1300 Into to Programming	4	MATH 1920 Calculus II	4
MATH 1910 Calculus I	4	ENGL 1020 Writing Composition II	3
ENGL 1010 Writing Composition I	3	Social/Behavioral Science Elective	3
HIST 2010 Early US History	3		
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
SOPHOMORE YEAR			
Semester: Fall — Total Credit Hours: 17		Semester: Spring — Total Credit Hours: 16	
CSC 2310 Object Oriented Programming	3	CSC 2400 Design of Algorithms	3
CSC 2510 Intro to DevOps with Unix	3	CSC 2700 Discrete Structure for CompSci	3
MATH 2010 Intro to Linear Algebra	3	CSC 2770 Intro to Systems & Networking	3
Science Sequence[3]	4	Science Sequence[3]	4
English Literature[2]	3	COMM 2025 or PC 2500-Communication	3
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
JUNIOR YEAR			
Semester: Fall — Total Credit Hours: 15		Semester: Spring — Total Credit Hours: 15	
CSC 3300 Database Management Sys	3	CSC 3040 Prfess, Comm, and Research	3
CSC 3410 Comp Org and Assembly	3	CSC 3710 Found of Comp Science	3
CSC Elective[4]	3	CSC 4200 Computer Networks	3
MATH 3070 or MATH 3470	3	CSC 4760 Parallel Programming **SPRING**	3
Humanities/Fine Arts Elective	3	Humanities/Fine Arts Elective	3
Course	**Cr. Hrs.**	**Course**	**Cr. Hrs.**
SENIOR YEAR			
Semester: Fall — Total Credit Hours: 14		Semester: Spring — Total Credit Hours: 14	
CSC 4100 Operating Systems	3	CSC 4615 Software Engineering II	2
CSC 4320 Computer Architeccture	3	CSC 4780 Advanced Network & Security **SPRING** even years	3
CSC 4610 Software Engineering I	3	CSC HPC Elective[5] **SPRING**	3
CSC 4770 Dist & Cloud Computing **FALL**	3	HIST 2020 Modern US History	3
Elective	2	Social/Behavioral Science Elective	3

Note:

1. Not required for transfer students with more than 12 hours; transfer students take 1 credit hour free elective
2. English Literature: ENGL 2130, or ENGL 2235, or ENGL 2330
3. Science Sequence: One science sequence
   - BIOL 1113 and BIOL 1123 OR BIOL 1113 and BIOL 2310 or
   - CHEM 1110 and CHEM 1120 or
   - GEOL 1040 and GEOL 1045 or
   - PHYS 2010 and PHYS 2020 OR PHYS 2110 and PHYS 2120
4. CSC Elective: Any additional 2000 or above level CSC course
5. CSC HPC Electives: Any one of the following CSC courses: CSC 4040, CSC 4220, CSC 4400, CSC 4575, CSC 4710

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

7. **Chemical Engineering**

2 New Courses

CHE 3340. Industry 4.0. Lee. 3. Cr. 3.
Prerequisite: Junior or Senior Standing or consent of instructor.
Course Description: Industry 4.0 is characterized by technologies that connect the physical and digital space and could be construed as an evolution of Industry 3.0 which created the digital revolution. It will encompass the evolution of existing technologies, such as robotics, nanotechnology, artificial intelligence, internet of things (IoT) as well as the industrial internet of things (IIoT), bio-molecular science, blockchain technology, additive manufacturing, autonomous vehicles, and fifth-generation wireless technologies.

Justification: The Industry 4.0 course has been offered as a special topics course for each of the last two Fall semesters with an average enrollment of four students. With the new course number, it will be offered as a requirement for the new CPM concentration or as a CHE elective.

Financial Impact: None

Effective Date: Fall 2025

CHE 4400. Engineering Safety. Lee. 3. Cr. 3.
Prerequisite: PHYS 2119 (or PHYS 2120), MATH 2120
Course Description: This course introduces the concepts and principles of engineering process safety. Content to cover includes process instrumentation, personnel safety, industrial hygiene, process safety management (PSM) (codes and regulations, hazard analysis, risk: incident probability and consequence analysis, and hazard communications.).

Justification: This new class in Engineering Safety is being piloted as a special topics course in the Spring 2025 semester. Safety in process control is a required element of ABET accreditation, and generally, the Department teaches engineering safety concepts across the curriculum. The introduction of a discrete course in the subject will further strengthen the Department's ABET accreditation position. The course will serve as an elective (with advisor approval) for any engineering program but will be required for students of the CPM curriculum. Indeed, it will be available to any student in engineering as the principles are fundamental and interdisciplinary. The curriculum will follow national standards demonstrated by the American Institute of Chemical Engineers (AIChE) division for process safety, SACHE.

Financial Impact: The course will be offered in-load with other faculty activities. Therefore, there is no anticipated financial impact for the department.

Effective Date: Fall 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

8. **Biology**

10 New Courses

BIOL 3010-Principles of Evolution
Lec. 3. Credit 3.
Prerequisite: BIOL 1010 or BIOL 1113. Study of mechanisms and selective pressures associated with evolutionary processes, from the level of the gene to individuals and finally to populations of organisms.

Justification: Although evolution is a foundational principle discussed in many of our courses, we think that a basic foundational course at a junior-level is needed to provide an organized synopsis of the topic. In addition to filling gaps concerning evolution that may currently exist in some of our concentrations, the course will also provide some flexibility in reorganizing and strengthening material in other courses. Once approved, we plan to require the course in some concentrations and include it as a directed elective in most of the others.

BIOL 4080/5080 - Vertebrate Evolution
Lec. 3. Credit 3.
Prerequisite: BIOL 3010. Overview of the evolution of all major vertebrate groups.

Justification: This course will provide an appreciation and understanding of the diversity of vertebrate animals, as well as the phylogenetic relationships among various taxa (e.g., birds vs. reptiles). It will also expose students to current approaches used to construct and interpret cladograms and phylogenies. Once approved, this course will be included as a directed elective in the Zoology Concentration, providing more flexibility to students pursuing this concentration.

BIOL 4090/5090 -Microbial Physiology
Lec. 3. Credit 3.
Prerequisite: BIOL 3200 or BIOL 3230. Introduction to the biochemistry of microorganisms.

Justification: This course will cover advanced topics concerning cellular structure and function, biochemical reactions in microorganisms, common genetic features of microorganisms, and the role of microorganisms in biochemical nutrient cycles. Once approved, this course will serve as a third option (in addition to CHEM 4500 and CHEM 4610) to meet the biochemistry requirement of the Microbiology Concentration, providing more flexibility to students pursuing this concentration.

BIOL 4190/5190-Molecular Signal Integration
Lee. 3. Credit 3.
Prerequisite: BIOL 2310 and BIOL 3140. Using plants to explore how organisms perceive and respond to environmental cues.

Justification: This course will cover advanced topics concerning gene regulation in plants, development of molecular models with factors that influence environmental regulation, and use and interpretation of databases to test research hypotheses involving signal integration in plants. Once approved, this course will serve as a directed elective in the Botany Concentration, providing more flexibility to students pursuing this concentration.

BIOL 4200/5200 - Plant Developmental Morphology
Lee. 2. Lab 3. Credit 3.
Prerequisite: BIOL 2310 and junior standing. Study of developmental processes that shape the form and structure of plants.

Justification: This course will integrate evolutionary perspectives, ecological contexts, and practical applications that bridge classical plant morphology with modem developmental biology techniques. Once approved, this course will serve as a directed elective in the Botany Concentration, providing more flexibility to students pursuing this concentration.

BIOL 4350/5350 - Restoring Resilient Ecosystems
Lee. 3. Credit 3.
Prerequisite or Co-requisite: BIOL 4330. Exploration of changes in land use in North America and plant genetic diversity, provenance, and functional traits to aid in ecosystem restoration.

Justification: This course will cover advanced topics concerning human-related changes in land use in North America, genetic provenance and diversity of plant propagule sources relative to restoring natural ecosystems and evaluating restoration plans based on these functional traits. Once approved, this course will serve as a directed elective in the Botany Concentration, providing more flexibility to students pursuing this concentration.

BIOL 4360-Science and Art of Botany
Lab 2. Credit 1.
Prerequisite: None. Instruction for identifying and drawing plant structures to better understand plant morphology.

Justification: This course involves an immersive field trip to a botanical garden where students receive instruction on drawing plant structures, with the goal of learning basic features of plant morphology and understanding the importance of art to scientific endeavors. Once approved, this course will serve as a directed elective in the Botany Concentration, providing more flexibility to students pursuing this concentration.

BIOL 4770/5770 -Mycology
Lee. 3. Credit 3.
Prerequisite: BIOL 3200 or BIOL 3230. Introduction to fungi, covering their diversity, biology, physiology, genetics, interactions, and industrial applications.

Justification: Although we have advanced courses providing introductions to most groups of micro- and macro-organisms, we have never had a formal course studying fungi, a very diverse and important group of organisms. We recently hired a mycologist, and he taught this course as a topics course in a previous semester. It was well received, and we wish to now include it as a formal course to be included in his teaching rotation. Once approved, this course will serve as a directed elective in the Microbiology Concentration, providing more flexibility to students pursuing this concentration.

BIOL 4981 - Senior Thesis I in Botany
Lab 2. Credit 1.
Prerequisite: Senior standing and Botany Concentration only. Supervised independent study of an original research project.

Justification: Students will be required to develop a research proposal, collect data, and review appropriate literature in this course. The completion of this process will occur in BIOL 4982. These two courses will be required of all students in the Botany Concentration. Botany is a very competitive discipline in Biology, often requiring a graduate degree. We believe that this this course, as well as Senior Thesis II will better prepare students for graduate school or a professional position in the field of Botany.

BIOL 4982 - Senior Thesis II in Botany
Lab 2. Credit 1.
Prerequisite: BIOL 4981. Supervised independent study of an original research project.

Justification: Students will be required to analyze data collected in BIOL 4981, write a paper, and orally present results of their research project. These two courses will be required of all students in the Botany Concentration. Botany is a very competitive discipline in Biology, often requiring a graduate degree. We believe that this this course, as well as Senior Thesis I will better prepare students for graduate school or a professional position in the field of Botany.

Financial Impact: No costs are associated with these new courses because all of them will be taught within the normal teaching rotations of current faculty members in the Department of Biology.

Effective Date: Fall Semester 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

9. **<u>Sociology & Political Science</u>**
    a. 2 Curriculum Changes

Sociology Course Track Changes

I. **Sociology General Curriculum**
Delete SOC/SW/CJ Elective from Freshman year. (3 hr.)
Add SOC/SW/CJ 2010: Behavior in the Social Environment I to Freshman year. (3 hr.)

II. **Sociology- Social Work Concentration**
Delete SOC/SW/CJ Elective from Freshman year. (3 hr.)
Add SOC/SW/CJ 2010: Behavior in the Social Environment I to Freshman year (3 hr.)

Sociology Degree Map Changes

I. **Sociology General Curriculum**
Move Math elective from Freshman year, first semester to Freshman year, second semester.
Move SOC/SW/CJ 2010: Behavior in the Social Environment I (formerly SOC/SW/CJ elective)' from Freshman year, second semester to Freshman year, first semester.

II. **Sociology - Social Work Concentration**
Move Math elective from Freshman year, first semester to Freshman year, second semester.
Move SOC/SW/CJ 2010: Behavior in the Social Environment I (formerly SOC/SW/CJ elective) from Freshman year, second semester to Freshman year, first semester.

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

SOCIOLOGY

Name_____

General Track:
(Leading to the Bachelor of Science Degree[1])

Freshman Year

First Semester	Cr	✓
SOC 1010: Intro. to Sociology	3	
Natural Science	4	
ENGL 1010: English Comp I	3	
MATH[2] MOVE	3	
General Elective[3]	1	
Subtotal	14	
Second Semester		
~~SOC/SW/CJ Elective~~ Delete	3	
Natural Science	4	
ENGL 1020: English Comp II	3	
Foreign Language[4]	3	
Humanities / Fine Arts Elective	3	
Subtotal	16	
Total:	30	

Sophomore Year

First Semester	Cr	✓
SOC/SW/CJ Elective	3	
HIST 2010 Early US History	3	
ENGL 2130, 2235 or 2330	3	
Humanities / Fine Arts Elective	3	
Social / Behavioral Sciences Elective	3	
Subtotal	15	
Second Semester		
Social Science / Philosophy Elective	3	
HIST 2020: Modern US History	3	
COMM 2025 or PC 2500	3	
General Electives (6 hours)	3	
	3	
Subtotal	15	
Total:	30	

Junior Year

First Semester	Cr	✓
SOC 3900: Intro to Research	3	
SOC 3910: Social Sci. Stat. Analysis	3	
SOC/SW/CJ electives (9 hours upper level)	3	
	3	
	3	
Subtotal	15	
Second Semester		
SOC 3100: Sociological Theory	3	
Social Science / Philosophy Elective	3	
General Electives (9 hours)	3	
	3	
	3	
Subtotal	15	
Total:	30	

Senior Year

First Semester	Cr	✓
Social Science / Philosophy Elective	3	
SOC/CJ 3620: Victimology	3	
General Elective	3	
SOC/SW/CJ Electives (6 hours upper level)	3	
	3	
Subtotal	15	
Second Semester		
General Electives (15 hours)	3	
	3	
	3	
	3	
	3	
Subtotal	15	
Total:	30	

[1] A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level.

[2] Any general education mathematics course. Math 1010 "Math for General Studies" recommended

[3] Students need to take a general elective (it does not have to be a one-hour course). Consult your academic advisor.

[4] The minimum is a course in a specific language. For example, none of the "Culture and Civilization" courses are acceptable.

Additional Comments:

– Each student is personally responsible for completing all degree requirements and for being informed of these requirements. A student's advisor MAY NOT assume these responsibilities (see TTU Undergraduate Catalog).

– Students must apply for graduation **at least two semesters prior** to expected graduation date.

Visit our web site for more information: http://www.ttuisch.edu/coe/soc/index.php

SOCIOLOGY (SOC - SW)

Name_____

Concentration: Social Work
(Leading to the Bachelor of Science Degree[1])

Freshman Year

First Semester	Cr	✓
SOC 1010: Intro. to Sociology	3	
Natural Science	4	
ENGL 1010: English Comp I	3	
MATH[2] MOVE	3	
General Elective[3]	1	
ADD SOC/SW/CJ 2010 3hr **Subtotal**	**14**	
Second Semester		
SW 1800: Intro. To Social Work	3	
Natural Science	4	
ENGL 1020: English Comp II	3	
Foreign Language[4]	3	
~~SOC/SW/CJ Elective~~ Delete	~~3~~	
Subtotal	**16**	
Total:	**30**	

Sophomore Year

First Semester	Cr	✓
POLS 1030 American Government	3	
HIST 2010 Early US History	3	
ENGL 2130, 2235 or 2330	3	
Humanities / Fine Arts Elective	3	
General Elective	3	
Subtotal	**15**	
Second Semester		
PSY 1030: Intro to Psychology	3	
HIST 2020: Modern US History	3	
COMM 2025 or PC 2500	3	
Humanities/Fine Arts Elective	3	
SOC/SW/CJ Elective	3	
Subtotal	**15**	
Total:	**30**	

Junior Year

First Semester	Cr	✓
SOC 3900: Intro to Research	3	
SOC 3910: Social Sci. Stat. Analysis	3	
SW/CJ 4100: Probation & Parole	3	
SOC/SW/CJ electives (6 hours upper level)	3	
	3	
Subtotal	**15**	
Second Semester		
SOC 3100: Sociological Theory	3	
PSY course or PSY 2210	3	
General Electives (9 hours)	3	
	3	
	3	
Subtotal	**15**	
Total:	**30**	

Senior Year

First Semester	Cr	✓
SW 4900: Internship	3	
SOC/CJ 3620: Victimology	3	
SW/CJ 4120: Case Management	3	
PHIL 2250: Introductory Ethics	3	
SOC/SW/CJ Electives (upper level)	3	
Subtotal	**15**	
Second Semester		
General Electives (15 hours)	3	
	3	
	3	
	3	
	3	
Subtotal	**15**	
Total:	**30**	

[1] A total of 120 hours is required for graduation with a minimum of 36 hours at the upper division level.

[2] Any general education mathematics course. Math 1010 "Math for General Studies" recommended

[3] Students need to take a general elective (it does not have to be a one-hour course). Consult your academic advisor.

[4] The minimum is a course in a specific language. For example, none of the "Culture and Civilization" courses are acceptable.

Additional Comments:

– Each student is personally responsible for completing all degree requirements and for being informed of these requirements. A student's advisor MAY NOT assume these responsibilities (see TTU Undergraduate Catalog).

– Students must apply for graduation **at least two semesters prior** to expected graduation date.

Visit our web site for more information: https://www.ttuhsc.edu/sonhs/soc/sw.aspx

10. **General and Industrial Engineering (Joint Tennessee Tech University-ETSU BSE Degree Program**

    a. 2 Curriculum Changes (1 memo – 2 effective dates)
        i. Replace courses per ME Curriculum Changes:
            1. ME 3210 Thermodynamics becomes ME 2210 Thermodynamics

               Effective Date: Fall 2025

            2. ME 4010 Machine Design becomes ME 3020 Machine Design

               Effective Date: Fall 2026

            3. ME 3023 becomes ME 3310 Experimental Methods I

               Effective Date: Fall 2026

        ii. Add technical elective course options, courses offered at ETSU:
            1. Add existing ETSU courses ENTC 4989 and ENTC 3440 to the list of ETSU Technical Electives required for graduation. Students are required to complete one technical elective from ETSU and 3 technical electives from TTU.

               Effective Date: Fall 2025

    Justification:

    a. Number changes were approved in February 2024

    b. Addition of courses was approved by the Program's Academic Affairs Council in September 2024 and approved for implementation by ETSU, effective in 2025 -2026 catalog.

    Financial Impact: None

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

Curriculum Sheet

Freshman 32 hrs (+1)			
ENGL 1010	3	ENGL 1020	3
HUFA Approved Elective	3	HUFA Approved Elective	3
MATH 1910	4	MATH 1920	4
CHEM 1110	4	CHEM 1120	4
ENGR 1110	2	ENGR 1120—ETSU	2
ENGR 1020	1**		
	16+1		16
Sophomore 32 hrs			
ENGL 2130, 2230 or 2330	3	SPCH 2410	3
MATH 2110	4	MATH 2010	3
PHYS 2110	4	MATH 2120	3
CEE 2110—ETSU	3	PHYS 2120	4
ENGR 3710—TTU	2	ME 2330—ETSU	3
	16		16
Junior 34 hrs			
ECE 2050—ETSU	4	ECE 2140—ETSU	4
ENGR 3120—ETSU	3	ME ~~3023~~ 3310—ETSU	3
CEE 3110—TTU	3	(effective Fall 2026)	3
ME ~~3210~~ 2210—TTU	3	ME 3010—TTU	3
(effective Fall 2025)	3	ME 3720—TTU	2
SBS Approved Elective		ENGR 3720—ETSU	3
		SBS Approved Elective	
	16		18
Senior 30 hrs			
ENGR 4900—TTU	3	ENGR 3020—TTU	3
ENGR 4750—ETSU	1	ENGR 4960—ETSU	3
ENGR 4950 – ETSU	3	Technical Elective***—TTU	3
ENGR 4510—TTU	3	Technical Elective***—ETSU	3
Technical Elective***—TTU	3	Free Elective	2
Technical Elective***—TTU			
	16		14

*** Technical Electives

ETSU: ENTC 3340 (effective Fall 2025), ENTC 4037, ENTC 4237, ENTC 4257, ENTC 4989 (effective Fall 2025), MGMT 4617, SURV 2530
TTU: CEE 3320, CEE 3413, CEE 3610, ECE 3210, ECE 3330, ECE 3610, ME 3610, ME 3710, ME ~~4010~~ 3020 (effective Fall 2026)

11. Nursing
    a. Nursing BSN – course change
    NURS 3100 Navigating Nursing School: Strategies for Student Success 1 credit

    FROM: Pre-requisite: Admission to Upper Division Nursing

    TO: Co-Requisites NURS 3260, 3270 and 3345

    Effective: Fall 2025

Justification: The test taking evaluations and strategies utilizes the content from the other Sophomore II nursing courses taken at the same time. If students are not enrolled in these courses-NU RS 3260, 3270 and 3345 they will not be able to complete the NURS 3100 assignments.

Financial Impact: None

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

b. ABSN 14 Course Changes

Course	Current Catalog Pre-Requisites	Current Catalog Co-Requisites	Recommended Changes
NURS 3345 Pathophysiological Processes I	NURS 3265, 3266, 3275, 3276, 3245	None	Admission to 2nd Degree ABSN Concentration
NURS 3245 Pharm. Concepts in Nurs. I	Admission to 2nd Degree ABSN Concentration		Pre OR Co- 3345, NURS 3340
NURS 3340 M/S I	NURS 3261, 3266, 3275, 3276, 3245	NURS 3341	Co-NURS 3341 Pre-NURS 3260, 3261, 3270, 3271 Co OR Pre– 3345, NURS 3245
NURS 3341 M/S I Lab	-NURS 3261, 3266, 3275, 3276, 3245	NURS 3340(MS I)	Co-NURS 3340 Pre-NURS 3260, 3261, 3270 , 3271 Co OR Pre– 3345, NURS 3245
NURS 3310 Mental Health	NURS 3265, 3266, 3275, 3276, 3245	NURS 3311	Co: NURS 3311 Pre: NURS 3260, 3261, 3270, 3271 Co OR Pre: NURS 3345, 3245
NURS 3311 Mental Health Lab	-NURS 3265, 3266, 3275, 3276, 3245	NURS 3310	Co: NURS 3310 Pre: NURS 3260, 3261, 3270, 3271 Co OR Pre: NURS 3345, 3245
NURS 3440 M/S II	NURS 3340, 3341, 3345,	NURS 3441	Co: 3441 Pre-3245,3340, 3341 Pre or Co: 4345
NURS 3441 M/S II Lab	NURS 3340, 3341, 3345	NURS 3440	Co: 3440 Pre-3245,3340, 3341 Pre or Co: 4345
NURS 4345 Patho II/ Pharm II	NURS 3340, 3341, 3245, 3345		Pre: NURS 3245 , 3345
NURS 4260 OB/PEDS	NURS 3340, 3341, 3345		Pre: NURS 3340, 3341, 3345, 3245
NURS 4300 Research	NURS 3250 (MS I), 3280 (MS I Lab) or Permission of Faculty		Pre: 3340, 3341 or Permission of Faculty
NURS 4201 OB Lab	NURS 3261, NURS 3280	NURS 4200	CO or Pre: NURS 4260
NURS 4550 Critical Care Nursing	NURS 3440, 3441, 4345		Pre: NURS 3440, 3441, 4345 or permission of faculty
NURS 4460 Preparation for Licensure		SR2 status or permission of faculty	Final Semester or permission of faculty

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

c1. BSN Curriculum Change

1. New Course: NURS 3242 Pharmacology I: 2 credit hours. 2 hours lecture
   (*After Dr. Huo requested clarification of the reduction in credit hours to an existing course, it was decided that a new course number would be issued for 3240 and a memo to request this would be provided by Dr. Jared. The new course number 3242 was approved by the Registrar and has been substituted here and in the curriculum degree map.*)
   Pre or Co Requisite: NURS 3290 Pathophysiology I

2. ADD: NURS 3100 Navigating Nursing School: Strategies for Student Success 1-credit
   Co-Requisites: NURS 3260, 3270 and 3290
   NOTE: NURS 3100 added as a new course at the February 2024 TTU Curriculum Committee meeting. However, we failed to request a curriculum change at that time.

   NOTE: This change only impacts the traditional BSN

   Justification: 15 hours of test taking content and success support have been taught in the 3 credit NURS, but have decided to pull that information from NURS 3240 and place in NURS 3100 and update it to better reflect the changes in the NCLEX licensing exam requiring the incorporation of the Clinical Judgement Model. We are also in the process of revising the curriculum to incorporate the new AACN Essentials that have been adopted by our accrediting body, CCNE. This course will allow us to intentionally prepare incoming nursing students for the curricular changes and the type of testing utilized in nursing.

3. CHANGE: SOC 1010 Introduction to Sociology requirement to Social Science
   These changes will occur across all concentrations: BSN, ABSN and RNBSN.

   Justification: This will allow increased flexibility for student to complete the Social Science general education requirements. This will also decrease the volume of substitutions requested.

   Financial Impact: none

   Effective Date: Fall 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

FRESHMAN I	CREDITS
CHEM 1210 (recommended), 1110 or 1010 Chemistry for Life Sciences or General Chemistry	4
ENGL 1010 English Composition I	3
HIST 2010 Early United States History	3
MATH 1530 (or higher level Mathematics course) Elementary Probability and Statistics	3
NURS 1010 Orientation	1

FRESHMAN 2	CREDITS
BIOL 2010 Human Anatomy and Physiology I	4
ENGL 1020 English Composition II	3
HIST 2020 Modern United States History	3
HU/FA I Humanities/Fine Arts Course (1st of 2 required)	3
Social Science Course	3
NURS 2300 Intro to Professional Nursing	2

SOPHOMORE 1	
BIOL 3230 Health Sciences Microbiology	4
BIOL 2020 Human Anatomy and Physiology II	4
HU/FA 2 Humanities/Fine Arts Course (2nd of 2 required)	3
ENGL Sophomore Literature	3
COMM 2025 or PC 2500 Public Speaking or Professional Communication	3

SOPHOMORE 2 (CLINICAL COURSES BEGIN)	
NURS 3260 and 3261 Health Assessment and Lab	2 + 1
NURS 3270 and 3271 Fundamentals of Nursing and Lab	2 + 1
NURS 3290 Pathophysiology I	2
NURS 3100 Nursing School Success Strategies	1
PSY 1030 Introduction to Psychology	3
HEC 2020 Nutrition	3

JUNIOR 1	
NURS 3250 and 3280 Medical/Surgical Nursing I and Lab	4 + 3
NURS 3242 Pharmacology I	2
NURS 3370 and 3371 Mental Health and Lab	3 + 2

JUNIOR 2	
NURS 3350 and 3361 Medical/Surgical Nursing II and Lab	4 + 3
NURS 4800 Gerontological Nursing	2
NURS 3390 Pathophysiology II	2
Elective	1

SENIOR 1	
NURS 4000 and 4001 Women's Health and Perinatal Nursing and Lab	3 + 2
NURS 4100 and 4101 Pediatrics and Lab	3 + 2
NURS 4230 Pharmacology II	2
NURS 4300 Research in Healthcare	3

SENIOR 2	
NURS 4430 and 4431 Healthcare in Communities and Lab	3 + 3
NURS 4450 and 4451 Nursing Leadership and Lab	3 + 4
NURS 4460 Licensure Preparation	1
Elective	1

Science Courses in Orange. BIOL 2010 and additional science needed to apply. All sciences required for clinical start.

Courses in GREEN must be completed before clinical start.

Courses in BLUE can be completed in any order, but no more than two can be left to complete at the start of clinicals.

All courses in white are Nursing clinical courses. These courses cannot be completed until you have received admission into the clinical program. These courses cannot be completed early and must be taken together as laid out by semester.

c2. ABSN – Curriculum Change

The current requirement for the Bachelor of Science in Nursing is SOC 1010 Introduction to Sociology. The Whitson Hester School of Nursing requests to change this requirement to a Social Science.

Justification: This will allow increased freedom for students to complete their Social Science general education requirements. This will also decrease the volume of substitution forms required.

Effective Date: Fall 2025 Financial Impact: none

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

12. Other Such Matters
    a. Dr. Curtis Armstrong discussed SACSCOC faculty credentials and the need to provide accurate course documentation and Spring 2025 syllabi uploads by March 7, 2025.
    b. Dr. Lenley Weathers discussed the proposed QEP First Year Foundations Class. The goal of this course is to introduce students to durable life skills and career readiness. It was emphasized that these skills are transferrable across concentrations/majors/departments/colleges and after lengthy discussion, it was decided that Dr. Weathers would take the discussion back to the QEP Committee at their next meeting.

There being no further discussion or other such matters, Dr. Baker made a motion to adjourn, and Dr. Wendt adjourned the meeting at 4:24 p.m.

Junior Year

Fall Semester		Spring Semester	
MUS 3xxx Private Lesson	1	MUS 3020 Music History & Literature II	3
MUS 3033 Marching Band (Live Audio)	1	PHYS 2010 Gen Ed Core Nat. Science	4
MUS 1013 Recital Class	0	MUS 1013 Recital Class	0
CHEM 1010 Gen Ed Core Nat. Science	4	MUS 3xxx Private Lesson	1
Gen Ed Core SPCH 2410 or PC 2500	3	MUS 10xx Major Ensemble	1
MUSA 4010 Live Audio Adv. A	3	MUSA 4020 Live Audio Adv. B	3
CSC 1300 Intro to Problem Solving	4	ECE 2050 Circuits and Electronics I	4
Semester credit hours:	16	*Semester credit hours:*	16

Senior Year

Fall Semester		Spring Semester	
MUS 1013 Recital Class	0	MUS 1013 Recital Class	0
Gen Ed Humanities / Fine Arts Elective	3	Gen Ed Core Social/Behavioral Sciences	3
MUSA 4003 Live Audio Pro. A	3	HIST 2020 American History II	3
HIST 2010 American History I	3	MUSA 4040 Live Audio Pro. B	3
ECE 3130 Microcomputer Systems	4	ECE 4140 Embedded System Design	3
MUSA 4030 Live Audio Pro. A	3	MUS 4010 Senior Project	1
Semester credit hours:	13	*Semester credit hours:*	13

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

c. Curriculum Change – BM in Performance, Composition

The School of Music would like to make a change to the BM in Performance, Composition curriculum during the freshman year. We would like to replace MUS 1021 Class Voice Techniques I with MUS 1070 Concert Choir during the second semester of study.

Justification: This an error in the catalog. This class is not repeatable for credit and should not occur twice in the first two semesters of study. MUS 1070 Concert Choir was accidentally excluded from the degree.

Effective: Spring 2025

Financial Impact: None

Bachelor of Music, Performance Concentration, Composition Degree Option
Degree Map

Freshman Year

Fall Semester*		Spring Semester*	
MUS 1000 Private Composition	1	MUS 1000 Private Composition	2
MUS 1120 Harmony I	3	MUS 1140 Harmony II	3
MUS 1130 Aural Techniques I	1	MUS 1150 Aural Techniques II	1
MATH 1XXX Math Gen Ed Core	3	MUS 1013 Recital Class	0
MUS 1013 Recital Class	0	MUS 1xxx Applied Music	1
MUS 1xxx Applied Music	1	MUS 10xx Major Ensemble	1
MUS 1xxx Major Ensemble	1	MUS 1030 Music Appreciation	3
MUS 1021 Class Voice Techniques	I	MUS 1070 Concert Choir	1
ENGL 1010 English Composition	3	ENGL 1020 English Composition II	3
Semester credit hours:	14	*Semester credit hours:*	15

* — class piano I and II are strongly-advised in Freshman year, in preparation for later piano requirements

Sophomore Year

Fall Semester		Spring Semester	
MUS 1000 Private Composition	2	MUS 1000 Private Composition	2
MUS 2110 Harmony III	2	MUS 2130 Harmony IV	2
MUS Aural Techniques III	1	MUS 2140 Aural Techniques IV	1
MUS 1023 Intermediate Class Piano III	1	MUS 1024 Intermediate Class Piano IV	1
MUS 3010 Music History & Literature I	3	MUS 1013 Recital Class	0
MUS 1013 Recital Class	0	MUS 1xxx Applied Music	1
MUS 1xxx Applied Music	1	MUS 10xx Major Ensemble	1
MUS 10xx Major Ensemble	1	Gen Ed Core SPCH 2410 or PC 2500	3
ENGL 2xxx English Gen Ed Core	3	MUS 3010 Music History & Literature II	3
Gen Ed Core Social / Behavioral Science	3	MUS 4510 Computer Apps	2
Semester credit hours:	17	*Semester credit hours:*	16

Junior Year

Fall Semester		Spring Semester	
MUS 3000 Private Composition	2	MUS 3000 Private Composition	2
MUS 3130 Form & Analysis	2	MUS 3210 Instrumentation	2
MUS 1013 Recital Class	0	MUS 1013 Recital Class	0
MUS 3xxx Applied Music	1	MUS 3xxx Applied Music	1
MUS 10xx Major Ensemble	1	MUS 10xx Major Ensemble	1
MUS 1100 Private Piano	1	MUS 3140 Counterpoint	3
HIST 2010 American History I	3	HIST 2020 American History II	3
Gen Ed Natural Science	4	Gen Ed Natural Science	4
MUS 3950 Junior Recital	1	MUS 1100 Private Piano	1
Semester credit hours:	15	*Semester credit hours:*	17

Senior Year

Fall Semester		Spring Semester	
MUS 3000 Private Composition	2	MUS 3000 Private Composition	2
MUED 3630 Fundam. of Conducting	1	Gen Ed Core Social / Behavioral Science	3
MUS 3220 Jazz Comp & Arranging I	2	MUS 1013 Recital Class	0
MUS 1013 Recital Class	0	MUS 3xxx Applied Music	1
MUS 3xxx Applied Music	1	MUS 10xx Major Ensemble	1
MUS 10xx Major Ensemble	1	MUS 4000 Senior Recital	1
MUS 4120 Contemporary Music	2	MUED 3630/3640 Conducting II	2
Gen Ed Humanities / Fine Arts Elective	3	MUS 3720 Pedagogy and Lit II	2
MUS 3710 Pedagogy and Lit I	2		
Semester credit hours:	14	*Semester credit hours:*	12

* Free electives can be either in music or in other fields, pending authorization from class's professor

** Senior project can take the form of either (*a*) a recital of original compositions, or (*b*) an undergraduate thesis on a mutually agreed-upon music theory topic

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

IV. **<u>Agriculture</u>**

Termination of the BS in Ag, Turfgrass Management Concentration

Justification: Terminating the Turfgrass Management concentration is necessary to establish an inclusive and cohesive Horticulture, Landscape, and Turfgrass Management (HL TM)

concentration. If approved, the new HL TM concentration will be promoted for incoming students beginning Fall 2025. Students currently in the Turfgrass Management concentration will not be affected by the termination '1;S the effective date is December 15, 2030.

Effective Date: December 15, 2030

Financial Impact: None

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

V. Curriculum and Instruction – Curriculum/Catalog Changes

Multidisciplinary Studies, Generalist B.S.
Freshman Year First Semester

From:
MATH 1410. Math for General Studies (credit 3) OR
Mathematics (Gen Ed)2 (credit 3)

To:
Mathematics (Gen Ed)2 (credit 3)

Secondary Education, Non-Licensure Concentration, B.S.ED.
Note: Changing Sophomore through Senior Year from yearly class listing to semester class listing.

Sophomore Year
From:
Social/Behavioral Sciences Elective (Gen Ed) (credit 3)
Humanities/Fine Arts Electives 1 (credit 6)
COMM 2025-Fundamentals of Communication (credit 3) OR
PC 2500-Communicating in the Professions (credit 3)
Content Electives (credit 12)
FOED 3010-Integrating Instrct Tech into the Class (credit 3)
ESLP 3100-ESL Pedagogy: SEED Methodology & Materials (credit 1)
Total: 28

To:
Sophomore Year First Semester
Social/Behavioral Sciences Elective (Gen Ed) (credit 3)
Humanities/Fine Arts Electives I (credit 6)
COMM 2025-Fundamentals of Communication (credit 3) OR
PC 2500-Communicating in the Professions (credit 3)

ESLP 3100-ESL Pedagogy: SEED Methodology & Materials (credit 1) Total: 13
Sophomore Year Second Semester
Content Electives (credit 12)
FOED 3010-Integrating Instrct Tech into the Class (credit 3)
Total: 15

Junior Year
From:
READ 3350-Teaching Reading in the Content Areas (Credit 3) Electives (credit 3)
Content Electives (credit 15)
Upper Division Electives (credit 4)
SEED 4120(5120)-Mtrls and Mthds of Teaching English (credit 3) OR SEED 4122(5122)-Mtrls and Mthds of Teaching Math (credit 3) OR SEED 4123(5123)-Mtrls and Mthds of Teaching Science (credit 3) OR SEED 4124(5124)-Mtrls and Mthds of Teaching Soc Studies (credit 3)
Total: 28

To:
Junior Year First Semester
READ 3350-Teaching Reading in the Content Areas (Credit 3) Content Electives (credit 12)
Total: 15
Junior Year Second Semester
Content Electives (credit 3)
Electives (credit 3)
SEED 4120(5120)-Mtrls and Mthds of Teaching English (credit 3) OR SEED 4122(5122)-Mtrls and Mthds of Teaching Math (credit 3) OR SEED 4123(5123)-Mtrls and Mthds of Teaching Science (credit 3) OR SEED 4124(5124)-Mtrls and Mthds of Teaching Soc Studies (credit 3)
Upper Division Electives (credit 4)
Total: 13

Senior Year
From:
SPED 3000-Tchg Prs w/Disabilities in the Reg Class (credit 3) Upper Division Content Electives2 (credit 15)
Upper Division Electives (credit 5)
Electives (credit 9)
Total: 32

To:
Senior Year First Semester
Electives (credit 9)
SPED 3000-Tchg Prs w/Disabilities in the Reg Class (credit 3) Upper Division Electives (credit 5)
Total: 17
Senior Year Second Semester
Upper Division Content Electives2 (credit 15)
Total: 15

Justification: MDSG program updates due to MA TH 1410 no longer being a Gen Ed course. SPEDNL updates are only to correct course listing from yearly to semesterly for consistency in the catalog.

Financial Impact: None

Effective Date: Fall 2025

Multidisciplinary Studies, Generalist, B.S.

Freshman Year

Freshman Year First Semester	Cr. Hrs.
ENGL 1010-English Composition I	3
FOED 2050-Education and Technology	3
~~MATH 1410-Math for General Studies~~ **~~OR~~**	3
Mathematics (Gen Ed)2	
Natural Sciences (Gen Ed)1	4
Social/Behavioral Sciences (Gen Ed)3	3
Total: 16	

Freshman Year Second Semester	Cr. Hrs.
ENGL 1020-English Composition II	3
HIST 2010-Early United States History	3
Natural Sciences (Gen Ed)1	4
PHED	1
Electives	3
Total: 14	

Sophomore Year

Sophomore Year First Semester	Cr. Hrs.
COMM 2025-Fundamentals of Communication **OR**	3
PC 2500-Communicating in the Professions	
ENGL 2130-Topics in American Literature **OR**	3
ENGL 2235-Topics in British Literature **OR**	
ENGL 2330-Topics in World Literature	
FOED 3010-Integrating Inst Tech into the Class	3
HIST 2020-Modern United States History	3
Humanities/Fine Arts (Gen Ed)4	3
Total: 15	

Sophomore Year Second Semester	Cr. Hrs.
Humanities/Fine Arts Elective (Gen Ed)4	3
Any EXPW Elective	3
Social/Behavioral Sciences Electives (Gen Ed)3	3
Any ECED **OR**	3
Any ECSP **OR**	
HEC Elective	
Electives	3
Total: 15	

Junior Year

Junior Year First Semester	Cr. Hrs.
Guided Electives (Advisor Approved)	6
LSCI 4570-Young Adult Literature **OR**	3
Any 3000/4000 Level READ course	
General Electives	6
Total: 15	

Junior Year Second Semester	Cr. Hrs.
Guided Electives (Advisor Approved)	3
HEC 3500-Development: Mid Child/Adolesc **OR**	3
PSY 4100-Child Psychology	
SPED 2010-Introduction to Special Education **OR**	3
Any 3000/4000 Level SPED Course **OR**	
LIST 4050-Sign Language I	
General Electives	6
Total:15	

Senior Year				
Senior Year First Semester	**Cr. Hrs.**		**Senior Year Second Semester**	
Any three different areas to total 9 hours:			**Any three different areas to total 9 hours:**	
Any 2000-4000 level ACCT	9		Any 2000-4000 level ACCT	9
Any 2000-4000 level BMGT			Any 2000-4000 level BMGT	
Any 2000-4000 level COMM			Any 2000-4000 level COMM	
Any 2000-4000 level ECON			Any 2000-4000 level ECON	
Any 2000-4000 level ENGL			Any 2000-4000 level ENGL	
Any 2000-4000 level FIN			Any 2000-4000 level FIN	
Any 2000-4000 level HIST			Any 2000-4000 level HIST	
Any 2000-4000 level LAW			Any 2000-4000 level LAW	
Any 2000-4000 level LIST			Any 2000-4000 level LIST	
Any 2000-4000 level MKT			Any 2000-4000 level MKT	
Any 3000/4000 level PHIL			Any 3000/4000 level PHIL	
Any 3000/4000 level PSY			Any 3000/4000 level PSY	
Any 3000/4000 level SOC or CJ			Any 3000/4000 level SOC or CJ	
Any 3000/4000 Education Electives 5	6		Any 3000/4000 Education Electives 5	6
Total: 15			**Total: 15**	

Notes:

1 Any University approved General Education Natural Sciences

2 Any University approved General Education Mathematics

3 Any University approved General Education Social/Behavioral Science

4 Any University approved General Education Humanities and/or Fine Arts

5 Select Education Electives from: CSED, CUED, ECSP, ELED, ESOL, ESLP, EXPW, FOED, PSY, SEED, SPED, or SVCL

6 Overall, the program must include at least 36 hours of upper division.

Secondary Education, Non-Licensure Concentration, B.S.ED

Freshman Year				
Freshman Year First Semester	**Cr. Hrs.**		**Freshman Year Second Semester**	**Cr. Hrs.**
ENGL 1010-English Composition I	3		ENGL 1020-English Composition II	3
FOED 2050-Education and Technology	3		HIST 2020-Modern United States History	3
HIST 2010-Early United States History	3		Humanities/Fine Arts Elective (Gen Ed)	3
Natural Sciences (Gen Ed)	4		Social/Behavioral Sciences Elective (Gen Ed)	3
MATH (Gen Ed)	3		Natural Sciences (Gen Ed)	4
Total: 16			**Total: 16**	

Sophomore Year				
Sophomore Year First Semester	**Cr. Hrs.**		**Sophomore Year Second Semester**	**Cr. Hrs.**
Social/Behavioral Sciences Elective (Gen Ed)	3		Content Electives	12
Humanities/Fine Arts Electives[1]	6		FOED 3010-Integrating Instrct Tech into the Class	3
COMM 2025-Fundamentals of Communication **OR**	3		**Total: 15**	
PC 2500-Communicating in the Professions				
~~Content Electives~~	~~12~~			
~~FOED 3010-Integrating Instrct Tech into the Class~~	~~3~~			
ESLP 3100-ESL Pedagogy: SEED Methodology & Materials	1			
Total: ~~**28**~~ **13**				

Junior Year				
Junior Year First Semester	**Cr. Hrs.**		**Junior Year Second Semester**	**Cr. Hrs.**
Content Electives	~~15~~ 12		Content Electives	3
READ 3350-Teaching Reading in the Content Areas	3		Electives	3
~~Electives~~	~~3~~		SEED 4120(5120)-Mtrls and Mthds of Teaching English **OR**	3
~~Upper Division Electives~~	~~4~~		SEED 4122(5122)-Mtrls and Mthds of Teaching Math **OR**	
~~SEED 4120(5120)-Mtrls and Mthds of Teaching English **OR**~~	~~3~~		SEED 4123(5123)-Mtrls and Mthds of Teaching Science **OR**	
~~SEED 4122(5122)-Mtrls and Mthds of Teaching Math **OR**~~			SEED 4124(5124)-Mtrls and Mthds of Teaching Soc Studies	
~~SEED 4123(5123)-Mtrls and Mthds of Teaching Science **OR**~~			Upper Division Electives	4
~~SEED 4124(5124)-Mtrls and Mthds of Teaching Soc Studies~~			**Total: 13**	
Total: ~~**28**~~ **15**				

Senior Year				
Senior Year First Semester	**Cr. Hrs.**		**Senior Year Second Semester**	**Cr. Hrs.**
Electives	9		Upper Division Content Electives[2]	15
SPED 3000-Tchg Prs w/Disabilities in the Reg Class	3		**Total: 15**	
~~Upper Division Content Electives[2]~~	~~15~~			
Upper Division Electives	5			
Total: ~~**32**~~ **17**				

Notes:

[1]At least one course in Humanities/Fine Arts must be in Literature (ENGL 2130, 2235 or 2330).

[2]Overall, the program must include at least 36 hours of Upper Division coursework.

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

VI **Computer Science**

Course Changes: Adding CSC 2510 to the list of pre-requisites for CSC 4610 (Pre-requisites - CSC 2310, CSC 2400, CSC 2510, CSC 3040, and CSC 3300)
CSC 2510 lays the basic foundation for DevOps which includes teaching students how to use Git for version control, building automated CI/CD pipelines, and how to work in a Linux environment. In CSC 4610, Software Engineering 1, students are assigned to Agile/Scrum groups to begin building applications for clients. During this process, the students are expected and need to use version control to work synchronously and asynchronously on in development teams. Additionally, many of the technologies required by the client projects ask students to work with virtualization, containers, and in the Linux OS environment. Without having the solid basis in CSC 2510, the students are unable to fully participate with their team members and overall struggle with the development process. (Syllabus Attached)

Financial Impact: None.

Effective Date: Fall 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

VII **Economics, Finance and Marketing**

Change prerequisite for ECON 4410 – Economic Foundations of Law

Prerequisite: ECON 3810 or consent of instructor. This course will explore the field of law and economics, using economic tools to analyze and explain the main areas of US civil law - property, torts and contracts - along with aspects of criminal and administrative law.

Proposed Changes:
Remove prerequisite ECON 3810 or consent of instructor' and add prerequisite ECON 2010.

Proposed Catalog Description:
Prerequisite: ECON 2010. This course will explore the field of law and economics, using economic tools to analyze and explain the main areas of US civil law - property, torts and contracts - along with aspects of criminal and administrative law.

Justification: Changes in the way the course is taught require less prior economics training than before.

Financial Impact: No additional financial impact is anticipated.

Effective Date: Spring 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

VIII **English**

Curriculum Change
Add JOUR 4360 Magazine Production/Dsgn (3 credit hours) to the list of elective courses students may take to complete the certificate

From:
JOUR 4710 Literary Journalism
JOUR 4830 Feature Writing
JOUR 4930 Advanced Copy Editing ENGL 4430 Creative Writing: Fiction ENGL 4440 Creative Writing: Essay ENGL 4450 Creative Writing: Poetry
PC 4990 Bus/Grant Proposal Writing ENGL 4983 Topics
ENGL 4950 Topics in Prof/Tech Comm Or PC 4950 Topics in Prof/Tech Comm ENGL 4470 Topics in Adv Creative Writing

To:
JOUR 4360 Magazine Production/Dsgn JOUR 4710 Literary Journalism
JOUR 4830 Feature Writing
JOUR 4930 Advanced Copy Editing ENGL 4430 Creative Writing: Fiction ENGL 4440 Creative Writing: Essay ENGL 4450 Creative Writing: Poetry
PC 4990 Bus/Grant Proposal Writing
ENGL 4983 Topics
ENGL 4950 Topics in Prof/Tech Comm
Or PC 4950 Topics in Prof/Tech Comm
ENGL 4470 Topics in Adv Creative Writing

JUSTIFICATION: JOUR 4360 will provide students with practical experience in producing and designing a magazine. These skills will be useful in a career in editing and publishing.

Effective Date: Summer 2025

Cost: None

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

IX **Human Ecology**

Course Additions:

HEC 2425 - Digital Design, Fabrication, and Illustration - Lee 2. Lab 2. Credit 3.
Prerequisite: See syllabus
Course Description: This course introduces students to the principles and practices of digital design, fabrication, and illustration as applied to architecture, fashion, and interior design. The course emphasizes the integration of technology into the design process, preparing students to effectively use digital tools to conceptualize, develop, and present innovative design solutions.

Justification: In today's rapidly evolving design industries, proficiency in digital tools and fabrication technologies is essential for success. For students in architecture, interior design, and fashion, the ability to translate creative concepts into precise, tangible outcomes through digital design and advanced fabrication methods is critical. This course equips students with essential skills in 30 modeling, digital fabrication (such as laser cutting and 30 printing), and visual communication, preparing them for the technological demands of their professions.

As design increasingly intersects with technology, the ability to seamlessly integrate digital workflows into the design and production process will set graduates apart in the competitive job market. This course provides hands-on experience with the latest fabrication technologies, fostering innovation, and enhancing students' ability to prototype, iterate, and present their designs effectively. By mastering these tools, students are better prepared to meet industry expectations, solve complex design challenges, and push the boundaries of creative expression in their fields.

Financial Impact: None

Additional Comments: This class will be offered on an "as-needed" basis and will be implemented in the guided electives section of the program of study.

HEC 2435 -Environmental and Sustainable Design in Architecture and Interior Design - Lee 3. Credit 3.
Prerequisite: See syllabus
Course Description: This course examines the principles and practices of environmental and sustainable design in architecture and interior design. Exploration of the impact of the built environment on ecosystems, human health, and resource consumption. Sustainable design strategies, techniques, materials, and technologies that minimize environmental footprints, enhance user well-being, and building performance will be emphasized.

Justification: Sustainability is becoming an essential consideration across all design industries as global environmental challenges demand more responsible practices. For students in architecture and interior design, understanding sustainable and environmental design is crucial to creating projects that are not only aesthetically pleasing but also ecologically sound. This course equips students with the foundational knowledge to reduce environmental impacts through thoughtful design choices such as energy efficiency, renewable materials, and waste reduction.

By learning to integrate sustainability into their design thinking, students will be better prepared to meet growing industry and client demands for environmentally responsible solutions. This course empowers students to approach design with a focus on long-term ecological balance, positioning them as leaders in the shift toward more sustainable practices in their respective fields.

Financial Impact: None

Additional Comments: This class will be offered on an "as-needed" basis and will be implemented in the guided electives section of the program of study.

HEC 2445 - Finishes, Furniture, and Lighting Design - Lee 3. Credit 3.
Prerequisite: See syllabus
Course Description: This course explores the principles and applications of finishes, furniture, and lighting in interior and architectural design. Analysis of various materials, products, and systems to create functional, aesthetically pleasing, and sustainable environments. The course focuses on how finishes and lighting influence spatial perception, comfort, and energy use, and how furniture design integrates with overall interior space.

Justification: In both residential and commercial projects, the choice of materials, furniture design, and lighting is critical to achieving functionality, comfort, and visual appeal. This course provides students with the technical knowledge and design skills needed to make informed decisions about these essential elements, directly impacting the success of any architectural or interior design project.

By focusing on sustainability and innovation, this course equips students with the ability to create environments and products that are not only visually compelling but also responsible in terms of resource use and environmental impact. As clients and industries increasingly prioritize sustainable and high-performance design solutions, this course positions students to deliver thoughtful, well-executed design outcomes across a range of scales and contexts.

Financial Impact: None

Additional Comments: This class will be offered on an "as-needed" basis and will be implemented in the guided electives section of the program of study.

HEC 3435 -Architectural Construction Materials, Methods, and Assemblies - Lee 3. Credit 3.
Prerequisite: See syllabus
Course Description: This course provides an in-depth exploration of the materials, construction methods, and building assemblies commonly used in architecture and construction. Students will examine the properties, performance, and applications of materials such as wood, steel, concrete, and sustainable alternatives. The course also covers building systems, structural assemblies, and the integration of construction

methods into design practices. Emphasis will be placed on understanding the relationship between material selection, construction techniques, and building performance, with a focus on efficiency, durability, and sustainability in the built environment.

Justification: A thorough understanding of construction materials and methods is essential for architecture and interior design students to ensure that their designs are both aesthetically pleasing and structurally sound. This course equips students with the practical knowledge required to make informed decisions about material selection and construction techniques, ensuring that their designs are feasible and comply with industry standards.

By emphasizing both traditional and innovative building techniques, as well as the integration of sustainable materials, students will be prepared to meet the challenges of modern construction practices. This course is crucial for fostering an understanding of how design concepts translate into real-world construction, ensuring that students can effectively collaborate with engineers, contractors, and other professionals in the building industry.

Financial Impact: None

Additional Comments: This class will be offered on an "as-needed" basis and will be implemented in the guided electives section of the program of study.

Curriculum Changes
From:
In the DSGN/ARDS (Design Studies: Architecture and Interior Design concentration) additional program requirements: CHEM 1010 -Introductory Chemistry I and CHEM 1020 - Introductory Chemistry II

To:
A choice between two of the following courses to satisfy the 8 credits in Natural Sciences: CHEM 1010 (Introductory Chemistry I), CHEM 1020 (Introductory Chemistry II), CHEM 1110 (General Chemistry I), CHEM 1120 (General Chemistry II), BIOL 1010 (Introduction to Biology), BIOL 1020 (Diversity of Life), BIOL 1080 (Concepts of Biology), BIOL 1113 (General Biology I), or BIOL 1123 (General Biology II)

Justification:
When the degree was originally created, we had listed CHEM 1010 and CHEM 1020 as requirement for the HEC 3310 and HEC 3320 classes. Since then, the HEC 3310 and HEC 3320 no longer require only these as prerequisites and allow other natural science options to be used. Dr. Upole is the primary faculty for these two classes and the expert within that field and has since changed the curriculum in the Fashion and Merchandising concentration to match what is listed above. The following excerpt was from a previous curriculum item, that was passed, that was listed from Dr. Upole: "In the past, students were required to take CHEM 1010 and CHEM 1020 as prerequisites for HEC 3310-Textiles I, as the course was focused around the structural and chemical composition of textiles. This prepared students for careers in the fields of Fashion Merchandising & Design and

Architecture & Interior Design, in addition to allowing them to pursue careers in textile production and development. Within the last two years, new guidelines and recommendations have been put in place by various organizations regarding the coursework necessary to pursue a career in Textile Engineering, a specialized degree. As our students do not have access to the coursework necessary for careers in the Textile Engineering field, and Tech does not offer a Textile Engineering program, students no longer need the specialized knowledge of the chemical composition of textiles for the jobs they are pursuing in the design industry. Instead, students' need to have a practical knowledge of how textiles are used in the design industry in modern applications, specifically regarding hands-on application of content to design problems faced in the industry. As such, it is no longer required that students have specific Chemistry knowledge to complete HEC 3310-Textiles I effectively. Instead, students may select from a list of sciences courses that will provide them with the basic understanding of the scientific method and general knowledge regarding basic chemistry and/or biology, in addition to fulfilling their General Education requirements for the Natural Sciences. This will also help with the pathway for transfer students and change of majors to enter the Design Studies program, as many do not have Chemistry requirements in their previous degree programs."

Financial Impact: None

Effective Date: Fall 2025

Bachelor of Science in Design Studies – Concentration in Architecture and Interior Design Curriculum

General Education Courses:	Credits
ENGL 1010 (English Composition I)	3
ENGL 1020 (English Composition 11)	3
PC 2500 (Communicating in the Professions) or COMM 2025 (Fundamentals of Communication)	3
HIST 2010 (Early US History)	3
HIST 2020 (Modem US History)	3
From CHEM 1010 to Natural Science Options	4
From CHEM 1020 to Natural Science Options	4
Literature Elective	3
Humanities/Fine Arts Electives	6
Math	3
Social Science Electives	6
Total	41
Integrated Core Courses:	
HEC 1040 Connections in Human Ecology	1
HEC 1005 Introduction to Human Ecology	1
HEC 1110 Concepts of Design	3
HEC 1150 Analysis of Product Development	3
HEC 1010 Life Span Development	3
HEC 2065 Families in Society	3
HEC 3011 Consumer Economics	3
HEC 3310 Textiles I	3
HEC 3320 Textiles II	3
HEC 3350 Business Aspects of the Design Industry	3
HEC 4315 Global Social Responsibility	3
HEC 3305 Portfolio Design	2
HEC 4340 Classical History of Architecture, Furnishings & Dress	3
HEC 4990 Internship	6
HEC 1125 Design Visualization Techniques	3
Total	43
Concentration Courses:	
HEC 2041 Aspects of the Built Environment	3
HEC 2421 Architectural Graphics	3
HEC 2440 Computer Aided Design	3

	HEC 2431 Residential Design I	3
	HEC 3431 Residential Design II	3
	HEC 4450 Commercial Design	3
	HEC 2460 Interior Architecture Codes and Standards	2
	HEC 2411 Practicum Housing and Design	1
	Total	21
Guided Electives (Select 15 Credits)		
	HEC 4340 Buying Principles for the Design Industry	3
	HEC 4460 Contemporary History of Architecture Furnishings & Dress	3
	AGHT 3400 Landscape Horticulture	3
	ART 1250 Intro to Digital Imaging	3
	HEC 4320 Merchandise Promotion & Advertising	3
	HEC 3360 Rural Development & Service Learning	3
	HEC 4325 Spatial Design	3
	CEE 3340 Intro to Structures	3
	CEE 4340 Residential and Light Commercial Design	3
	GEOG 3200 Water Resources	3
	GEOL 1045 Earth Environment, Resources, and Society	3
	GEOG 4510 Theory of GIS	3
	GEOG 2100 Weather and Climate Systems	3
	GEOG 1130 Geography of Natural Hazards	3
	GEOG 3710 Geography of the US	3
	GEOL 1070 Concepts of Geology	3
	MATH 1730 Pre-Calculus Math	3
	MATH 1910 Calculus	3
	MATH 1920 Calculus II	4
	MATH 1710 Pre-Calculus Algebra	4
	PHYS 2010 Algebra-Based Physics	3
	PHYS 2109 Calculus-Based Physics	4
	AGHT 3460 Interior Plantscaping	4
	AGET/AGRN 3600 Unmanned Aircraft Operations	3
	AGRN 2400 Introduction to Soils	3
	ART 1045 Drawing I	3
	ART 1050 Drawing II	3
	ART 2410 Painting I	3
	ART 3410 Painting II	3
	ART 2910 Intro to Wood	3
	ART 2710 Intro to Glass	3
	ART 2610 Intro to Fibers	3
	ART 2510 Intro to Clay	3
	ART 2810 Intro to Metals	3

	HEC 4990 Internship	3
	HEC 4960 Independent Study	2 or 6
	HEC 4900 Special Topics	1 or 3
	COMM/JOUR 3030 Principles of Event Planning	1,2,3
	ART 2060 Basic Photography	3
	JOUR 3270 Fundamentals of Photography	3
	HEC 2435 Environmental and Sustainable Design in Architecture and Interior Design	3
	HEC 2445 Finishes, Furniture, and Lighting Design	3
	HEC 2425 Digital Design, Fabrication, and Illustration	3
	HEC 3435 Architectural Construction Materials, Methods, and Assemblies	3
	Total Degree Credits	
		120

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

X **<u>Nursing</u>**

The WHSON is requesting a change in elective course requirements for NURS undergraduate majors.

Current Catalog:

A total of 3 hours of Nursing or other electives approved and substituted with permission from the Nursing School.

Recommended change:

A total of 2 hours of electives approved by the WHSON are required. The following is a list of popular electives appropriate for NURS majors.

- BIOL – various biology credits may be appropriate for certain interests, CRNA school, etc.
- CHEM – various chemistry courses may be appropriate for students with interest in graduate nursing degrees such as CRNA, etc.
- EXPW 1150 – care and prevention of athletic injuries (3)
- EXPW 2150 – Human Secuality (3) – overview of human sexual behavior, physical development, sexually transmitted diseases, sexual health.
- EXPW 2160 – Drug Use and Abuse (2) – overview of commonly used recreational drugs, effects on the user, health and personal effects of abuse and society issues related to substance use.
- EXPW 2430 – First Aid, Safety, & CPR (2) – offers CPR Certification
- HEC 1010 – Lifespan Development (3) – basic developmental class covering the lifespan, similar to Developmental Psychology but with more general focus.
- HEC 2200 - Development, Conception to Age 6 (3) - Early childhood physical, cognitive, and emotional development. Can be followed up by HEC 3500 (Middle Child/Adolescence).
- HEC 2220 - Medical Terminology - Covers basic medical terminology. Can cover material from first semester UDN's online med terminology component - good way to get a head start.
- LIST 4050 & 4090 OR NURS 4050 & 4090 (3 each) - Sign Language I & II
- PSY 2130 - Lifespan Psychology (3) - Physical, emotional, cognitive, and moral development throughout the human lifespan, emphasis on childhood.
- PSY 4150 - Psychology of Personality (3) - Application of psychological principles to an understanding of personality, development, and interpersonal adjustments.
- PSY 4160 -Abnormal Psychology (3) - Nature of abnormal behavior, etiology, symptomatology and treatment.

- SPAN 1015 - Spanish for Health Services (3) - Basic Spanish for careers in Health Services - equivalent to SPAN 1010. Not available if you have had higher level Spanish courses at TTU.
- Any foreign language course for students interested in international travel nursing jobs.
- NURS courses or other nursing related courses

Justification:
- The current catalog lists incorrect number of elective hours
- To provide guidance for students in the selection of a wide range of elective courses

Effective date: Summer 2025

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried

XI **<u>Other Such Matters</u>**

- Dr. Lenly Weathers discussed an upcoming proposal memo from the First Year Foundations Subcommittee of the QEP Topic Development Committee, scheduled for submission to the Provost in the coming calendar year. This memo pertains to Tennessee Tech's 2026 Quality Enhancement Plan (QEP) and its reaffirmation of accreditation. The committee intends to propose that, in support of our QEP with its focus on durable skills and career readiness, all first-semester students enroll in department-specific "first year foundations" courses, each carrying at least 1 semester hour of credit. Currently, approximately three-fourths of freshmen are enrolled in such courses. These QEP-aligned courses would aim to introduce students to their academic major and provide insights into relevant post-graduation opportunities. The need for such courses was consistently expressed by students during the General Education Town Halls held in Spring 2023. Additionally, over 80% of students who responded to the QEP Topic Selection Survey in 2023 indicated that "to be able to get a better job" was their primary reason for attending Tennessee Tech.
    - Additionally, these courses would educate students on the Gold Career Readiness Program, administered by the Office of Career Development, and require students to pursue and, ideally, complete the requirements for the Gold Certificate. These requirements currently include completing an online self-assessment to explore interests, values, and career preferences; developing a career plan with short-, mid-, and long-term goals; and attending resume and interview workshops.
    - Each department would be responsible for creating its own "first year foundations" course, although departments could collaborate to offer meta-major courses.
    - Existing "first year foundations" courses are expected to satisfy the requirement by Fall 2025, while departments that do not currently offer such a course will need to do so by Fall 2026.
    - The QEP will provide faculty development and training to course instructors for the Gold Career Readiness Certificate, as well as assignments and resources to support the integration of these requirements.

    - Dr. Weathers also extended an invitation for further discussion and welcomes anyone interested in more details to contact him directly.

- Dr. Curtiss Armstrong reminded everyone that the deadline for uploading faculty information to the SACSCOC site was October 31, 2024. He also requested that everyone verify the credentials that have been uploaded and make certain that they are current, and, if they have difficulties, to ask him for assistance.

  With no other matters and no further discussion, Dr. Jeremy Wendt proposed that the meeting be adjourned.

Motion to approve: Julie Baker
Second: Lisa Zagumny
Vote: Motion Carried