

University Curriculum Committee

September 18, 2025, Meeting Minutes

The University Curriculum Committee met **Thursday, September 18, 2025,**
at **3:00 p.m. via Teams.**

Members Present:

Michael Allen	Colin Hill	Daren Snider
Sean Alley	Michael Hoane	Benjamin Sweeney
Melinda Anderson	Sharon Huo	Dennis Tennant
Curtis Armstrong	Christy Killman	Steven Thomas
Julie Baker	Peter Li	Eli Tidwell (student)
Angie Briggs	Josh Martin	Charles Van Neste
Scott Christen	Allan Mills	Fred Vondra
Brittany Copley	Ben Mohr	Jeremy Wendt (chair)
Jie Cui	Linda Null	Kevin West
Kent Dollar	Thomas Payne	Braxton Westbrook
Brandi Fletcher	Richard Rand	(student)
Steve Frye	Mohan Rao	Chris Wilson
Gerald Gannod	Lindsey Roberts	Kim Winkle
Mike Gotcher	Stephen Robinson	Lauren Wright
Kim Hanna	Jennifer Shank	Lisa Zagumny
Steven Hayslette	Darron Smith	Jinfa Zhang

Members Absent:

Cheyenne Bare (student)	Barbara Jared	Abby McCulley (student)
Jeff Boles	Karen Lykins	Matthew Smith
Julie Galloway	Hayden Mattingly	
Corey Heineman (student)	Kelly McCallister	

Official Representative(s):

Chad Rezsnyak (<i>for Jeff Boles</i>)	Heather Cathey (<i>for Barbara Jared</i>)	Autumn Cecil (<i>for Abby McCulley</i>)
Elizabeth Lewis (<i>for Matt Smith</i>)		

Guests:

Deb Allen	William Eberle	Mary McCaskey
Holly Anthony	Manaak Gupta	Autumn McDaniel
Amanda Carroll	John Liu	Doug Talbert

University Curriculum Committee Agenda
September 18, 2025

Item #	Unit	Agenda Item	AC/THEC
01	UCC	Approval of Agenda	
02	UCC	Approval of 4/3/25 Minutes	
03	Flight Foundation Legacy Courses	Transition of Gen Ed Courses to Flight Foundations Courses (see table below)	
04	Human Ecology	Termination of Child Life Concentration	AC/THEC
05a b	Chemistry	a. New Course and Course Change, b. 8 Curriculum Updates with Flight Foundations	
06a	Decision Science and Management	Course Change - DS 3810	
06b	Decision Science and Management	Course Change - DS 3520, 3530, 4530	
06c	Decision Science and Management	Course Change - DS 1810	
06d	Decision Science and Management	Change in Minor - BINT	
07a	Computer Science	New Course - AI 3100	
07b	Computer Science	New Course - AI 4200	
07c	Computer Science	Program Modification	AC/THEC
08	Nursing	New Course Proposal	
09	Military Science	Course Change Proposals MS 1010, MS 1020	
10	Other Such Matters		
	Dr. Wendt	Syllabi Requirements	
	Gail	Undergraduate Curricula List - for Flight Foundation updates	

Flight Foundation Courses Currently Approved by Gen Ed Committee

	Humanities and Cultural	Historical	Quantitative Reasoning and	Scientific	Social and Behavioral	Financial and
Communication	Expression	Foundations	Analysis	Reasoning	Sciences	Digital Literacy
COMM 2025	ENGL 2130	HIST 2010	MATH 1010	ASTR 1010	POLS 1030	
ENGL 1010	ENGL 2235	HIST 2020	MATH 1420	ASTR 1020	SOC 1010	
ENGL 1020	ENGL 2330			CHEM 1090	WGS 2010	
PC 2500	FREN 2510			CHEM 1110		
	HIST 2210			CHEM 1120		
	HIST 2220			CHEM 1710		
	HIST 2310			PHYS 1090		
	HIST 2320			PHYS 2010		
	PHIL 1030			PHYS 2020		
	PHIL 2250					
	RELS 2010					
	SPAN 2510					

Proceedings:

Confirming that a quorum was present, Dr. Jeremy Wendt called the meeting to order via Teams at 3:00 p.m.

1. Approval of Agenda

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried

2. Approval of Minutes – April 3, 2025

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried

3. General Education Legacy Courses Transitioning to New Flight Foundations

The General Education Committee met on September 5, 2025, to discuss and vote on courses submitted for inclusion in the Flight Foundations (General Education) curriculum. The committee approved the following courses:

- **Legacy Courses Approved**

- Communication
 - ENGL 1010 English Composition
 - ENGL 1020 English Composition II
 - COMM 2025 Fundamentals of Communication
 - PC 2500 Communicating in the Professions
- Humanities and Cultural Expression
 - ENGL 2235 Topics in British Literature
 - ENGL 2130 Topics in American Literature
 - ENGL 2330 Topics in World Literature
 - PHIL 2250 Introductory Ethics
 - PHIL 1030 Introduction to Philosophy
 - HIST 2310 Early World History
 - HIST 2320 Modern World History
 - HIST 2210 Early Western History
 - HIST 2220 Modern Western History
 - FREN 2510 France: Culture and Civilization
 - SPAN 2510 Spanish Culture and Civilization
 - RELS 2010 Introduction to Religious Studies
- Historical Foundations
 - HIST 2010 Early US History
 - HIST 2020 Modern US History
- Quantitative Reasoning and Analysis
 - MATH 1010 Math for General Studies
 - MATH 1420 Geometry Concepts for Teachers
- Scientific Reasoning
 - PHYS 2010 Algebra-Based Physics I (4 hrs.)
 - PHYS 2020 Algebra-Based Physics II (4 hrs.)
 - PHYS 1090 Concepts of Physics (4 hrs.)
 - ASTR 1010 Introduction to Astronomy I (4 hrs.)
 - ASTR 1020 Introduction to Astronomy II (4 hrs.)
 - CHEM 1110 General Chemistry I (4 hrs.)
 - CHEM 1120 General Chemistry II (4 hrs.)
 - CHEM 1090 Concepts of Chemistry (4 hrs.)
 - CHEM 1710 Culinary Chemistry (4 hrs.)

- Social and Behavioral Sciences
 - WGS 201 O Introduction to Women and Gender Studies
 - POLS 1030 American Government
 - POLS 1030 American Government (Cyber)
 - SOC 1010 Introduction to Sociology
 - SOC 1010 Introduction to Sociology (Cyber)
- **Newly Created Courses Approved**
 - Social and Behavioral Sciences
 - NURS 2400 Introduction to Global Health

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried

4. Human Ecology

Termination of Child Life Concentration

Justification:

In preparation for the transition to our MS in Child Life degree; approved to start Fall 2026- it is necessary to terminate the undergraduate Child Life concentration and focus resources on the graduate program. Six students remain in the Child Life concentration. Four of them will graduate May 2026. The remaining 2 students are set to graduate in May 2027.

The pathway to becoming a Certified Child Life Specialist includes completing 600 hours of clinical experience in a pediatric hospital. This process is controlled by the pediatric hospital and over the last several years we have noticed our undergraduate students being passed over by the hospitals selecting graduate students. Currently the only graduate program in Child Life in Tennessee is at Vanderbilt University. TN Tech University seeks to become the only public university in Tennessee to offer a graduate program in Child Life. Due to the trend in graduate students being selected for the clinical experiences, it is necessary to only offer the graduate degree in Child Life and discontinue our undergraduate concentration, effective August 1, 2027. We do offer the BS in Human Ecology: Human Development and Family Science concentration and we will continue to use this as a foundation degree for undergraduate students who wish to pursue the Child Life credential.

Financial Impact: There is no cost to terminate the Child Life concentration.

Effective Date: August 1, 2027, pending THEC approval.

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried

5. Chemistry

a. Course Additions:

UNPP 4020 – Healthcare Experience, Credit 1-3

Prerequisite: Junior or Senior Standing. Healthcare experience is a crucial component of a successful healthcare professional school application. It involves gaining practical exposure to the healthcare field, allowing you to interact with patients and healthcare professionals. This can be achieved through various avenues like volunteering, shadowing, or internships. This experience is vital for developing a realistic understanding of the healthcare field and these professions.

Justification: Students planning to apply to healthcare professional schools (medical, dental, optometry, pharmacy, etc.) are expected to have hands-on experience in healthcare settings. This course would provide an avenue to award credit for these opportunities in a way that provides evaluation and feedback from both the healthcare provider they are working with, as well as a faculty member overseeing the course. This would also allow students to have a record of their experience on their official transcript, which can be valuable for their applications. For each credit hour the student takes they are expected to work 3 hours per week in their healthcare setting.

Financial Impact: None

Effective Date: Fall 2026

**Tennessee Technological University
Department of Chemistry**

UNPP 4020 – Healthcare Experience (1-3 Credit Hours)

Course Information:

Course Section: UNPP 4020
Course Dates: Fall, Spring or Summer semester
Class Time(s): TBA
Classroom: TBA
Semester: Fall, Spring or Summer
Prerequisites: Junior standing or above

Instructor Information:

Name: TBA
Email: TBA
Office: TBA
Phone: TBA
Office Hours: TBA

Textbook(s):

None

Course Description & Objectives:

Course Description:

Healthcare experience is a crucial component of a successful healthcare professional school application. It involves gaining practical exposure to the healthcare field, allowing you to interact with patients and healthcare professionals. This can be achieved through various avenues like volunteering, shadowing, or internships. This experience is vital for developing a realistic understanding of the healthcare field and these professions.

Course Objectives:

1. Describe the roles, responsibilities, and scope of practice of healthcare professionals.
2. Identify effective communication techniques used with patients and within care teams.
3. Recognize ethical and legal considerations in patient care, including HIPAA compliance.
4. Demonstrate professional behavior in a healthcare setting.
5. Reflect critically on observations to connect theory to practice. Demonstrate effective interdisciplinary collaboration skills.

Special Instructional Methods & Platforms:

Teaching Methods: Provider and/or Staff in the selected healthcare setting

Resources/Platforms:

iLearn: [iLearn website](#)

Topics:

Grade Information:

Grade Calculation:

Professionalism & Attendance	25%
Weekly Reflection Journals	30%
Midterm Check-In Report	15%
Final Reflection Presentation	20%
Site Supervisor Evaluation	10%

Grade Assignment:

Your letter grade will be determined according to the following scale:

- A: 100 – 90%
- B: 89 – 80%
- C: 79 – 70%
- D: 69 – 60%
- F: < 59%

Academic Integrity Policy:

Student Academic Integrity Policy:

Maintaining high standards of academic integrity in every class is critical to the reputation of Tennessee Tech, its students, faculty, alumni, and the employers of Tennessee Tech graduates. Academic integrity is at the foundation of the educational process and key to student success. Students with academic integrity are committed to honesty, ethical behavior, and avoiding academic integrity violations. All students must read and understand Policy 216: Student Academic Integrity. Please see the [Academic Integrity website](#) for more information.

Academic Integrity Violation is defined as “any action or attempted action that may create an unfair academic advantage for oneself or another Student”. Specific definitions of academic integrity violations from the policy that may apply to the UNPP 4020 curriculum are given below:

- Falsifying work hours

Assignments & Assessment Information:

Professionalism & Attendance: Timeliness, conduct, adherence to site policies.

Weekly Reflection Journals: 250–400 words, linking observation to course concepts.

Midterm Check-In Report: Summary of progress, challenges, and goals.

Final Reflection Presentation: 10-15 minute oral presentation with photos

Site Supervisor Evaluation: Completed by contact person/supervisor.

Accessible Education Center (AEC) Accommodation Statement:

Students with a disability requiring academic adjustments and accommodations must contact the Accessible Education Center (AEC). AEC is located in the Roaden University Center, Room 112; phone 372-6119. For more information see Tennessee Tech Policy 340 (Services for Students with Disabilities) at [Policy Central](#).

AI Policy Statement:

Students are encouraged to use artificial intelligence platforms, such as ChatGPT to supplement their learning through their experience, however, they should communicate what they have learned using AI to healthcare providers to make sure the information is accurate.

Additional Resources:

Technical Help:

If you are experiencing technical problems, visit the [myTech IT Helpdesk](#) for assistance.

If you are having trouble with an instructional technology (i.e. Zoom, Teams, Qualtrics, Respondus, or any technology listed [here](#)) visit the [Center for Innovation in Teaching and Learning](#) (CITL) website or call 931-372-3675 for assistance.

For accessibility information and statements for our instructional technologies, visit the [CITL's Learner Success Resource page](#).

Tutoring:

The university provides free tutoring to all Tennessee Tech students. Tutoring is available for any class or subject, as well as writing, test prep, study skills, and resume support. Appointments are scheduled, so contact the [Learning Center website](#) for more information.

Health and Wellness:

Counseling Center

The Counseling Center offers brief, short-term, solution-focused therapeutic interventions for Tennessee Tech University students. The staff of the Counseling Center is available to assist students with their personal and social concerns in hopes of helping them achieve satisfying educational and life experiences. To learn more or schedule an appointment, visit the [Counseling Center website](#).

Health Services

Health Services offers high-quality, affordable care that is accessible and promotes the health and wellness of our Tennessee Tech community. Visit the [Health Services](#) website to learn more.

Pandemic Protocols:

1. Each student must take personal responsibility for knowing and following any university protocol related to pandemics and other public health events. Students are expected to follow all directives published by Tennessee Tech on its official webpage.
2. As conditions related to the pandemic change, the university's COVID-19 protocols are also likely to change. Students are expected to monitor the university's official webpage to stay up to date on public health protocols.
3. Students who refuse to comply with university protocols will be reported to the Tennessee Tech Dean of Students.

b. Course Changes

Current: CHEM 1973- Special Topics in General Chemistry, Lec. 3, Lab 3; Credit 3

Contact hours 12

Proposed: CHEM 1973- Special Topics in General Chemistry, Lec. 0-3, Lab 0-3;

Credit 3

Contact hours 3-9

Justification: This course is used as needed when students take General Chemistry at other universities where the lecture and lab are separate courses. When the course was built in Course Dog there was an error that removed the variability of the lecture, lab, and contact hours. This would resolve that error and allow the department to enroll students for the correct number and type of credit and contact hours to ensure they are able to complete General Chemistry 1 or 2 (CHEM 1110/1120) when transferring from other universities.

Financial Impact: None

Effective Date: Spring 2026

- c. Curriculum Changes to meet new Flight Foundations - Update the General Education Requirements in all Chemistry Concentrations: Pure, Biochemistry, Business, Custom, Environmental, Forensic Chemistry, Health Science Chemistry, and Industrial Chemistry to the hours listed in table below.

Category	Hours
Quantitative Reasoning & Analysis	3
Humanities & Cultural Expression	6
Historical Foundations	6
Social & Behavioral Sciences	6
Communication	9
Scientific Reasoning	8
Financial & Digital Literacy	3
Total	41

Catalog Year: 2026-2027		Major: Chemistry Concentration: Biochemistry	
Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall	Total Credit Hours: 16	Semester: Spring	Total Credit Hours: 14
CHEM 1110 General Chemistry I	4	CHEM 1120 General Chemistry II	4
CHEM 1500 First Year Interactions and Advisement	1	Composition GE Credit	3
MATH 1910 Calculus I	4	BIOL 1123 General Biology II	4
Composition GE Credit	3	Social & Behavioral Science GE Credit	3
BIOL 1113 General Biology I	4		
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall	Total Credit Hours: 15	Semester: Spring	Total Credit Hours: 14
CHEM 3410 Quantitative Analysis	4	CHEM 3420 Analytical Applications	3
PHYS 2010/2110 Physics I	4	PHYS 2020/2120 Physics II	4
BIOL 3230 Health Science Microbiology	4	BIOL 3140 Cellular Biology	4
Humanities & Cultural Expression GE Credit	3	Humanities & Cultural Expression GE Credit	3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours: 14	Semester: Spring	Total Credit Hours: 16
CHEM 3010 Organic Chemistry I	4	CHEM 3020 Organic Chemistry II	4
Historical Foundations GE Credit	3	CHEM 3500 Elements of Physical Chemistry	3
Oral Communication GE Credit	3	Historical Foundations GE Credit	3
BIOL 3810 General Genetics	4	Digital & Financial Literacy GE Credit	3
		Social & Behavioral Science GE Credit	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours: 16	Semester: Spring	Total Credit Hours: 15
CHEM 4610 General Biochemistry I	3	CHEM 4620 General Biochemistry II	3
CHEM 4920 Chemistry Seminar	3	CHEM 4650 General Biochemistry Lab	2
MATH 3070 Statistical Methods	3	BIOL 4150 Molecular Genetics	3
Elective	7	BIOL 4040/4060	3
		Electives	4

Catalog Year: 2026-2027

Major: Chemistry

Concentration: Business Chemistry

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 1110 General Chemistry I	4	CHEM 1120 General Chemistry II	4
CHEM 1500 First Year Interactions and Advisement	1	BIOL/MATH Elective*	4
MATH 1910 Calculus I	4	Composition GE Credit	3
Composition GE Credit	3	Humanities & Cultural Expression GE Credit	3
BIOL/MATH Elective*	4		

Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 2010 Intro to Inorganic	3	CHEM 3420 Analytical Applications	3
CHEM 3410 Quantitative Analysis	4	PHYS 2020/2120 Physics II	4
PHYS 2010/2110 Physics I	4	BIOL/MATH Elective*	3
ECON 2010 Microeconomics	3	Oral Communication GE Credit	3
Technical Requirement	3	ECON 2020 Macroeconomics	3

Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 3010 Organic Chemistry I	4	CHEM 3020 Organic Chemistry II	4
Technical Requirement	3	CHEM 3500 Elements of Physical Chemistry	3
Historical Foundations GE Credit	3	Technical Requirement	3
Digital & Financial Literacy GE Credit	3	Historical Foundations GE Credit	3

Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
Advanced Chemistry**	3	Advanced Chemistry**	6
CHEM 4920 Chemistry Seminar	3	Technical Requirement	3
Technical Requirement	3	Humanities & Cultural Expression GE Credit	3
Electives	5	Electives	5

*Choose from: BIOL 1113, 1123, MATH 1530, 1920, 2010, 2110, 2120, 3070, 3080

**Choose from: CHEM 3520, 4110, 4150, 4210, 4310, 4320, 4410, 4520, 4610, 4620, 4650, 4710, 4720, 4980, 4991/4992/4993
total hours from CHEM 4991/4992/4993 cannot exceed 4 hours

Catalog Year: 2026-2027

Major: Chemistry

Concentration: Custom Chemistry

Course	Cr. Hrs.	Course	Cr. Hrs.
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FIRST YEAR

Semester: Fall	Total Credit Hours:	16	Semester: Spring	Total Credit Hours:	14
CHEM 1110 General Chemistry I		4	CHEM 1120 General Chemistry II		4
CHEM 1500 First Year Interactions and Advisement		1	BIOL/MATH Elective		4
MATH 1910 Calculus I		4	Composition GE Credit		3
Composition GE Credit		3	Humanities & Cultural Expression GE Credit		3
BIOL/MATH Elective		4			

Course	Cr. Hrs.	Course	Cr. Hrs.
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SOPHOMORE YEAR

Semester: Fall	Total Credit Hours:	14	Semester: Spring	Total Credit Hours:	16
CHEM 2010 Intro to Inorganic		3	CHEM 3420 Analytical Applications		3
CHEM 3410 Quantitative Analysis		4	PHYS 2020/2120 Physics II		4
PHYS 2010/2110 Physics I		4	Social & Behavioral Science GE Credit		3
Social & Behavioral Science GE Credit		3	Oral Communication GE Credit		3
			BIOL/MATH Elective		3

Course	Cr. Hrs.	Course	Cr. Hrs.
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JUNIOR YEAR

Semester: Fall	Total Credit Hours:	13	Semester: Spring	Total Credit Hours:	14
CHEM 3010 Organic Chemistry I		4	CHEM 3020 Organic Chemistry II		4
Technical Requirement		3	CHEM 3500 Elements of Physical Chemistry		3
Historical Foundations GE Credit		3	Historical Foundations GE Credit		3
Digital & Financial Literacy GE Credit		3	Technical Requirement		4

Course	Cr. Hrs.	Course	Cr. Hrs.
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SENIOR YEAR

Semester: Fall	Total Credit Hours:	17	Semester: Spring	Total Credit Hours:	16
Advanced Chemistry		3	Advanced Chemistry Courses		6
CHEM 4920 Chemistry Seminar		3	Technical Requirement		4
Technical Requirement		3	Electives		3
Elective		8	Humanities & Cultural Expression GE Credit		3

Catalog Year: 2026-2027

Major: Chemistry

Concentration: Environmental Chemistry

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 1110 General Chemistry I	4	CHEM 1120 General Chemistry II	4
CHEM 1500 First Year Interactions and Advisement	1	BIOL/MATH Elective	4
MATH 1910 Calculus I	4	Composition GE Credit	3
Composition GE Credit	3	Humanities & Cultural Expression GE Credit	3
BIOL/MATH Elective	4		
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 2010 Intro to Inorganic	3	CHEM 3500 Elements of Physical Chemistry	3
CHEM 3410 Quantitative Analysis	4	PHYS 2020/2120 Physics II	4
PHYS 2010/2110 Physics I	4	Oral Communication GE Credit	3
BIOL 3120 Ecology	3	BIOL/MATH Elective	3
Social & Behavioral Science GE Credit	3	Technical Requirement	3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 3010 Organic Chemistry I	4	CHEM 3020 Organic Chemistry II	4
CHEM 4520 Instrumental Analysis	4	Digital & Financial Literacy GE Credit	3
Historical Foundations GE Credit	3	Historical Foundations GE Credit	3
Technical Requirement	3	Technical Requirement	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 4710 Environmental Chemistry	3	CHEM 4720 Advanced Environmental Chemistry	3
CHEM 4920 Chemistry Seminar	3	Advanced Chemistry	3
Social & Behavioral Science GE Credit	3	Humanities & Cultural Expression GE Credit	3
Elective	6	Technical Requirement	3
		Elective	3

Catalog Year: 2026-2027

Major: Chemistry

Concentration: Forensic Chemistry

Course	Cr. Hrs.	Course	Cr. Hrs.
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FIRST YEAR

Semester: Fall	Total Credit Hours:	16	Semester: Spring	Total Credit Hours:	17
CHEM 1110 General Chemistry I		4	CHEM 1120 General Chemistry II		4
CHEM 1500 First Year Interactions and Advisement		1	BIOL/MATH Elective		4
MATH 1910 Calculus I		4	Composition GE Credit		3
Composition GE Credit		3	Humanities & Cultural Expression GE Credit		3
BIOL/MATH Elective		4	Social & Behavioral Science GE Credit		3

Course	Cr. Hrs.	Course	Cr. Hrs.
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SOPHOMORE YEAR

Semester: Fall	Total Credit Hours:	15	Semester: Spring	Total Credit Hours:	16
CHEM 2010 Intro to Inorganic		3	CHEM 3500 Elements of Physical Chemistry		3
CHEM 3410 Quantitative Analysis		4	PHYS 2020/2120 Physics II		4
PHYS 2010/2110 Physics I		4	CJ 2660 Criminology		3
BIOL 3810 General Genetics		4	Oral Communication GE Credit		3
			BIOL/MATH Elective		3

Course	Cr. Hrs.	Course	Cr. Hrs.
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JUNIOR YEAR

Semester: Fall	Total Credit Hours:	14	Semester: Spring	Total Credit Hours:	13
CHEM 3010 Organic Chemistry I		4	CHEM 3020 Organic Chemistry II		4
CHEM 4520 Instrumental Analysis		4	BIOL 4150 Molecular Genetics		3
Historical Foundations GE Credit		3	Historical Foundations GE Credit		3
CJ 4250 Drugs/Behavioral Pharmacology		3	Digital & Financial Literacy Credit		3

Course	Cr. Hrs.	Course	Cr. Hrs.
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SENIOR YEAR

Semester: Fall	Total Credit Hours:	14	Semester: Spring	Total Credit Hours:	15
CHEM 4610 General Biochemistry I		3	CHEM 4650 General Biochemistry Lab		2
CHEM 4920 Chemistry Seminar		3	CHEM 4410 Forensic Chemistry		4
Social & Behavioral Science GE Credit		3	BIOL 3330/CJ 3640 Entomology/Cyber Crime		3
Elective		5	Humanities & Cultural Expression GE Credit		3
			Elective		3

Catalog Year: 2026-2027

Major: Chemistry

Concentration: Health Science Chemistry

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 1110 General Chemistry I	4	CHEM 1120 General Chemistry II	4
CHEM 1500 First Year Interactions and Advisement	1	BIOL/MATH Elective	4
MATH 1910 Calculus I	4	Composition GE Credit	3
Composition GE Credit	3	Humanities & Cultural Expression GE Credit	3
BIOL/MATH Elective	4	Social & Behavioral Science GE Credit	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 2010 Intro to Inorganic	3	CHEM 3020 Organic Chemistry II	4
CHEM 3010 Organic Chemistry I	4	PHYS 2020/2120 Physics II	4
PHYS 2010/2110 Physics I	4	BIOL 2020 A&P II	4
BIOL 2010 A&P I	4	BIOL/MATH Elective	3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 3410 Quantitative Analysis	4	CHEM 3420 Analytical Applications	3
BIOL 3230 Health Science Microbiology	4	CHEM 3500 Elements of Physical Chemistry	3
Historical Foundations GE Credit	3	Humanities & Cultural Expression GE Credit	3
Digital & Financial Literacy GE Credit	3	Historical Foundations GE Credit	3
		Social & Behavioral Science GE Credit	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 4610 General Biochemistry I	3	CHEM 4620 General Biochemistry II	3
CHEM 4920 Chemistry Seminar	3	Advanced Chemistry	3
Technical Requirement	4	Oral Communication GE Credit	3
Elective	6	Elective	3

Catalog Year: 2026-2027

Major: Chemistry
Concentration: Industrial Chemistry

Course	Cr. Hrs.	Course	Cr. Hrs.
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FIRST YEAR

Semester: Fall	Total Credit Hours:	16	Semester: Spring	Total Credit Hours:	16
CHEM 1110 General Chemistry I		4	CHEM 1120 General Chemistry II		4
CHEM 1500 First Year Interactions and Advisement		1	BIOL/MATH Elective		4
MATH 1910 Calculus I		4	Composition GE Credit		3
Composition GE Credit		3	Humanities & Cultural Expression GE Credit		3
BIOL/MATH Elective		4	MET 1100 Intro to Manufacturing/Engineering		2

Course	Cr. Hrs.	Course	Cr. Hrs.
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SOPHOMORE YEAR

Semester: Fall	Total Credit Hours:	17	Semester: Spring	Total Credit Hours:	15
CHEM 2010 Intro to Inorganic		3	CHEM 3420 Analytical Applications		3
CHEM 3410 Quantitative Analysis		4	PHYS 2020/2120 Physics II		4
PHYS 2010/2110 Physics I		4	Oral Communication GE Credit		3
Social & Behavioral Science GE Credit		3	MET 2000 Occupational Safety		2
MET 2400 Statics & Strengths of Materials		3	BIOL/MATH Elective		3

Course	Cr. Hrs.	Course	Cr. Hrs.
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JUNIOR YEAR

Semester: Fall	Total Credit Hours:	13	Semester: Spring	Total Credit Hours:	13
CHEM 3010 Organic Chemistry I		4	CHEM 3020 Organic Chemistry II		4
Advanced Chemistry		3	CHEM 3500 Elements of Physical Chemistry		3
Historical Foundations GE Credit		3	Historical Foundations GE Credit		3
Digital & Financial Literacy GE Credit		3	PC 3520 Professional Communications		3

COOP 2010-2030	After junior year (3 semesters)	3
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Course	Cr. Hrs.	Course	Cr. Hrs.
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SENIOR YEAR

Semester: Fall	Total Credit Hours:	15	Semester: Spring	Total Credit Hours:	12
Advanced Chemistry		3	Advanced Chemistry		3
CHEM 4920 Chemistry Seminar		3	Humanities & Cultural Expression GE Credit		3
Social & Behavioral Science GE Credit		3	Technical Requirement		3
Electives		6	Electives		3

Catalog Year: 2026-2027		Major: Chemistry Concentration: Pure Chemistry	
Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 1110 General Chemistry I	4	CHEM 1120 General Chemistry II	4
CHEM 1500 First Year Interactions and Advisement	1	MATH 1920 Calculus II	4
MATH 1910 Calculus I	4	Composition GE Credit	3
Composition GE Credit	3	Social & Behavioral Science GE Credit	3
Social & Behavioral Science GE Credit	3		
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 2010 Intro to Inorganic	3	CHEM 3020 Organic Chemistry II	4
CHEM 2910 Undergraduate Research Methods I	1	MATH/PHYS Elective*	3
CHEM 3010 Organic Chemistry I	4	PHYS 2120 Calculus-based Physics II	4
MATH 2110 Calculus III	4	Digital & Financial Literacy GE Credit	3
PHYS 2110 Calculus-based Physics I	4	Humanities & Cultural Expression GE Credit	3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 3410 Quantitative Analysis	4	CHEM 3520 Physical Chemistry II	4
CHEM 3510 Physical Chemistry I	4	Historical Foundations GE Credit	3
Historical Foundations GE Credit	3	Oral Communication GE Credit	3
Humanities & Cultural Expression GE Credit	3	Elective	5
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours:	Semester: Spring	Total Credit Hours:
CHEM 4210 Chemistry of Polymers	3	CHEM 4110 Inorganic Chemistry	3
CHEM 4520 Instrumental Analysis	4	CHEM 4150 Inorganic Chemistry Lab	1
CHEM 4610 General Biochemistry I	3	Advanced Chemistry Electives**	6
CHEM 4920 Chemistry Seminar	3	CHEM 4991 Undergraduate Research	1
Electives	3	Electives	2
*Chosen from: MATH 2010, 2120, 3070, or PHYS 2920			
**Chosen from: CHEM 4310, 4320, 4410, 4620, 4650, 4710, 4720, 4980, 4991/4992/4993 total hours from CHEM 4991/4992/4993 cannot exceed 4 hours			

Justification: These changes are consistent with the new university Flight Foundations general education core requirements. Keeping the Scientific Reasoning category at 8 hours, while reducing the Humanities & Cultural Expression category to 6 hours and defining the new Financial & Digital Literacy category at the minimum of 3 hours, allows chemistry majors to earn general education credit for the introductory science courses that are requirements for their major and prevents students from needing to take an additional course to complete their general education requirements.

Financial Impact: None

Effective Date: Fall 2026

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried.

6. **Decision Sciences**

a. Course Change

DS 3810 – Introduction to Programming Logic and Analytical Thinking **Remove the Business Information Technology and Analytics Minor from programs permitted to take this course.**

Justification: The current restriction settings for this course require that a student be in both the BINT major AND the BINT minor in order to register. We were asked to make this change to address the issue. For BINT minor students, we will provide the necessary permit to register.

Financial Impact: None

Effective Date: Spring 2026

b. Course Changes

i. DS 3520 – Operations, Logistics, and Supply Chain Management

Change the name to Operations and Supply Chain Management

Justification – This name change is to align the course name with the modified concentration name.

ii. DS 3530 – Advanced Operations, Logistics, and Supply Chain Management

Change the name to Advanced Operations and Supply Chain Management

Justification – This name change is to align the course name with the modified concentration name.

iii. DS 4530 – Operations, Logistics, and Supply Chain Management Capstone

Change the name to Operations and Supply Chain Management Capstone

Justification – This name change is to align the course name with the modified concentration name.

iv. DS 4530 – Operations and Supply Chain Management Capstone

Add DS 3540 – Quality and Productivity Systems as a prerequisite for DS 4530

Change DS 3530 - Advanced Operations and Supply Chain Management from a prerequisite for DS 4530 to a prerequisite/co-requisite for DS 4530

Justification – This change better prepares students for success in the capstone experience.

Financial Impact: None

Effective Date: Spring 2026

c. Course Change

DS 1810 – Governor School – Business and Technology. 3 hrs lec; 3 cr

Reactivate the course DS 1810. It is currently inactive

Change the name of the course to DS 1810 - Governors School - Technological Innovation and Business Leadership

Justification: This course is specific to the Governor's School for Technological Innovation and Business Leadership. The name better reflects the content of the course and the purpose of this Governor's School program.

Financial Impact: None

Effective Date: Spring 2026

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried.

d. Changes to Minor in Business Information Technology and Analytics

i. Add required courses

DS 3810 – Introduction to Programming Logic and Analytical Thinking

ii. Remove required courses

DS 3841 – Management Information Systems

iii. Remove optional courses

ECON 4640 (5640) – Econometrics

Justification: DS 3810 is now a prerequisite for other required courses in the minor. The removal of ECON 4640 aligns with the recent change in the Business Intelligence and Analytics Concentration.

Financial Impact: None

Effective Date: Spring 2026

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried.

7. Computer Science

a. New Course

AI 3100 – Human-Centered AI

Lee. 3. Credit 3.

Pre-requisite: CSC 4240. Explores the intersection of artificial intelligence and human-computer interaction (HCI), emphasizing the design and evaluation of AI systems that effectively serve and collaborate with people. Students will examine how humans interact with AI systems and learn to build AI that is usable, trustworthy, fair, and aligned with human values. The course will use projects, readings, and discussions to help

students develop skills for designing AI systems that are not only technically robust but also ethically and socially responsible.

Justification: Without additional courses, the AI major would not have sufficient depth to justify the title of “major.” To give it more depth in AI without requiring additional resources, we are proposing the addition of two new important AI courses to strengthen the major. This new course was identified in consultation with our AI external advisory board and addresses the important topic of human-AI interaction.

IMPACT ON FACULTY: None.

EFFECTIVE DATE: Fall 2026

JUSTIFICATION: Without additional courses, the AI major would not have sufficient depth to justify the title of “major.” To give it more depth in AI without requiring additional resources, we are proposing the addition of two new important AI courses (a separate memo contains the other requested course addition) to strengthen the major. This new course was identified in consultation with our AI external advisory board and enhances our coverage of modern AI model architectures.

ABET Course Syllabus

1. AI 3100 Human-Centered AI
2. Credit Hours: 3, Contact Hours: 3 (3 lecture)
3. Course Coordinator: Dr. Doug Talbert
4. Textbook: Human-Centered AI (by Ben Shneiderman, Oxford University Press)
Supplementary: Research papers and other online material as assigned
5. Course information

Catalog Description:	Explores the intersection of artificial intelligence and human-computer interaction (HCI), emphasizing the design and evaluation of AI systems that effectively serve and collaborate with people. Students will examine how humans interact with AI systems and learn to build AI that is usable, trustworthy, fair, and aligned with human values. The course will use projects, readings, and discussions to help students develop skills for designing AI systems that are not only technically robust but also ethically and socially responsible.
Pre-requisites:	CSC 4240 Intro to AI/ML
Course Category:	

6. Course Instructional Outcomes

Outcome	Course Outcome Description	SO (1-6)
1	Apply human-centered design principles to create AI interfaces and interaction paradigms that are usable, trustworthy, and aligned with human values.	1,6
2	Evaluate AI systems for usability, interpretability, and fairness using appropriate HCI and AI evaluation methods such as user studies, A/B testing, and bias detection tools.	1,2
3	Analyze the ethical, legal, and societal implications of deploying AI in sensitive application domains (e.g., healthcare, criminal justice, education) and propose strategies for mitigating risks	2
4	Design and prototype human-in-the-loop AI systems that balance automated decision-making with meaningful human oversight and accountability.	6
5	Communicate design decisions and technical trade-offs in AI system development to both technical and non-technical audiences through written reports, oral presentations, and interactive demos.	4

Student Outcomes (Assessment Correspondence: H – High, M – Medium, L – Low)		
1.	Design, implement, and evaluate AI models and systems using appropriate algorithms, data structures, and computational tools, demonstrating proficiency in reliability, scalability, and efficiency.	H
2.	Identify, analyze, and address ethical, legal, and societal implications of AI technologies, ensuring responsible and value-aligned system design.	H
3.	Independently acquire and apply new AI techniques and tools, demonstrating the ability to adapt to emerging technologies and research trends.	L
4.	Communicate technical AI concepts clearly and persuasively in written, oral, and visual forms to both technical and non-technical audiences.	M
5.	Work effectively in teams, taking on both collaborative and leadership roles in developing AI solutions.	L
6.	Analyze a complex problem in artificial intelligence and apply principles of AI, machine learning, and other relevant computing disciplines to design and implement appropriate solutions.	H

7. Brief list of topics

- Introduction to human-centered design principles
- Overview of human-computer interaction (HCI) fundamentals
- The role of the human in AI decision-making (e.g., human-in-the-loop, human-on-the-loop)
- Designing user interfaces for AI systems
- Usability and user experience (UX) in AI applications
- Trust, interpretability, and explainability in AI models
- Detecting and mitigating bias in data and algorithms
- Fairness, accountability, and transparency (FAT*) in AI
- Participatory design and stakeholder involvement in AI system development
- Ethical and social implications of deploying AI systems
- Case studies: AI in healthcare, criminal justice, education, and more
- Evaluation methods: user studies, A/B testing, feedback collection

b. New Course

AI 4200 Deep Learning

Lee. 3. Credit 3.

Pre-requisite: CSC 4220. An advanced and practical exploration of deep learning, covering mathematical foundations and applied skills to design, implement, train, evaluate, and deploy a variety of deep neural networks - including ANNs, LSTMs, GRUs, residual CNNs, Transformers, and others. Course work will prioritize hands-on coding - utilizing high performance computing resources with an emphasis on applying deep learning to real-world datasets.

IMPACT ON FACULTY: None.

EFFECTIVE DATE: Fall 2026

JUSTIFICATION: Without additional courses, the AI major would not have sufficient depth to justify the title of “major.” To give it more depth in AI without requiring additional resources, we are proposing the addition of two new important AI courses (a separate memo contains the other requested course addition) to strengthen the major. This new course was identified in consultation with our AI external advisory board and enhances our coverage of modern AI model architectures.

ABET Course Syllabus

1. AI 4200 Deep Learning
2. Credit Hours: 3, Contact Hours: 3 (3 lecture)
3. Course Coordinator: TBD
4. Textbook: Dive Into Deep Learning (Zhang et al., free online)
Secondary: Goodfellow, Bengio, Courville — Deep Learning (selected chapters; free online)
Supplementary: Research papers and tutorials as assigned
5. Course information

Catalog Description:	An advanced and practical exploration of deep learning, covering mathematical foundations and applied skills to design, implement, train, evaluate, and deploy a variety of deep neural networks - including ANNs, LSTMs, GRUs, residual CNNs, Transformers, and others. Course work will prioritize hands-on coding - utilizing high performance computing resources with an emphasis on applying deep learning to real-world datasets.
Pre-requisites:	CSC4220 Data Mining and Machine Learning
Course Category:	

6. Course Instructional Outcomes

Outcome	Course Outcome Description	SO (1-6)
1	Derive and implement backpropagation for common layers and losses, using auto-differentiation and gradient checking effectively	
2	Select, implement, and train a variety of deep neural networks (ie. MLPs, CNNs, RNN/LSTM/GRU, and Transformers) based on problem type	1
3	Apply regularization and optimization strategies; diagnose under/overfitting	
4	Implement hyperparameter tuning strategies	
5	Apply advanced training methods including learning rate scheduling and momentum	
6	Leverage transfer learning, parameter efficient fine-tuning, and data augmentation techniques	
7	Build reproducible deep learning pipelines in PyTorch/TensorFlow with checkpointing (ie. WandB)	2
8	Identify ethical, safety, and fairness considerations in deep learning systems	4

Student Outcomes (Assessment Correspondence: H – High, M – Medium, L – Low)		
1.	Design, implement, and evaluate AI models and systems using appropriate algorithms, data structures, and computational tools, demonstrating proficiency in reliability, scalability, and efficiency.	H
2.	Identify, analyze, and address ethical, legal, and societal implications of AI technologies, ensuring responsible and value-aligned system design.	M
3.	Independently acquire and apply new AI techniques and tools, demonstrating the ability to adapt to emerging technologies and research trends.	L
4.	Communicate technical AI concepts clearly and persuasively in written, oral, and visual forms to both technical and non-technical audiences.	L
5.	Work effectively in teams, taking on both collaborative and leadership roles in developing AI solutions.	L
6.	Analyze a complex problem in artificial intelligence and apply principles of AI, machine learning, and other relevant computing disciplines to design and implement appropriate solutions.	H

7. Brief list of topics

- Foundations review (optimization, multivariate calculus, linear algebra, information theory)
- Gradient Descent, SGD, momentum, Adam
- Computational graphs and automatic differentiation
- Hyperparameter tuning
- Learning rate scheduling and regularization (early stopping, dropout, normalization, weight decay)
- Data handling and augmentation (splitting, leakage avoidance)
- Convolutional Neural Networks (alexnet, resnet)
- Residual Connections
- Recurrent Neural Networks (LSTM, GRU)
- Backpropagation through time and vanishing/exploding gradient
- Transformers, attention, and self-supervised learning
- Self-supervised learning, foundation models
- Representation learning
- Model compression and fine-tuning
- Responsible AI: bias, robustness, privacy considerations

After extensive discussion of these courses and the course identifiers, a motion was made to approve the new courses and revisit the prefix of these new courses at the next meeting.

Motion: Steven Frye

Second: Curtis Armstrong

Vote: Motion Carried.

- c. We are requesting the elevation of the B.S in Computer Science with a concentration in data science and artificial intelligence (DSAI) to a B.S in Artificial Intelligence.
Elevation of the B.S in Computer Science with a concentration in data science and artificial intelligence (DSAI) to a B.S in Artificial Intelligence

Attached is the THEC Academic Program Modifications Checklist, Policy A1.1 Academic Program Modifications, that will be used to enter the appropriate information into Formstack. This modification request is in accordance with THEC instructions for “Establishing a free-standing academic program from an existing concentration that has

demonstrated steady enrollment and graduation numbers for a period of at least three (3) years”. In addition, the TN Tech Interval Cover Form is attached.

If approved by THEC, we are also requesting that the Undergraduate Catalog for 2026-2027 be updated to (1) remove all references to the concentration in data science and artificial intelligence from the B.S in Computer Science (e.g., see the pages entitled “Overview” and “Programs”), and (2) add a link to “Artificial Intelligence, B.S.” page off of the “Programs” section of the catalog, including the appropriate “Program Overview” and “Degree Map”.

CATALOG INFORMATION FOR AI MAJOR

AI-BS – Artificial Intelligence, B.S.

Degree Details

Artificial Intelligence (AI) equips students to solve real-world problems by combining data analysis skills with computational techniques that enable computers to behave intelligently. Students in the AI major will learn the full data science lifecycle through classes and real-world projects that cover data management, statistical inference, data mining and machine learning algorithms, and data visualization. Students have the benefit of experienced faculty who have done research with the Department of Homeland Security, National Science Foundation, and the National Institutes of Health, and also gain practical experience in the university's Machine Intelligence and Data Science (MInDS) Center.

Degree

Bachelor of Science

Major

Artificial Intelligence

Delivery Style

On-Campus

Department Information Department of Computer Science Bruner Hall 238
(931) 372-3691

DEGREE MAP

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 Intro 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: 16	Semester: Spring	Total Credit Hours: 15
CSC 2310 Object Oriented Programming	4	CSC 2400 Design of Algorithms	3
CSC 2510 Intro to DevOps with Unix	3	CSC 2700 Discrete Structure for CompSci	3
Humanities/Fine Arts Elective	3	MATH 3070 or MATH 3470	3
English Literature ²	3	COMM 2025/PC 2500 Communications	3
MATH 2010 Intro to Linear Algebra	3	CSC 2220 Intro to DS and AI	3
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours: 15	Semester: Spring	Total Credit Hours: 16
CSC 3300 Database Management Sys	3	CSC 4760 Parallel Programming	3
CSC 3040 Prfess, Comm, and Research	3	Natural Science ³	4
Elective	3	Financial and Digital Literacy	3
CSC 3220 Fundamentals of Data Science	3	AI 3100 Human-centered AI	3
CSC 4240 Intro to Artificial Intelligence	3	CSC 4220 Data Mining and Machine Learning	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours: 14	Semester: Spring	Total Credit Hours: 12
CSC 4610 Software Engineering I	3	CSC 4200 Comp Networks	3
Social/Behavioral Science Elective	3	CSC 4615 Software Engineering II	2
Elective	2	Natural Science ³	4
Upper Division Elective	3	CSC 4260 Advanced Data Science & Apps	3
AI 4200 Deep Learning	3		

Red – AI-specific courses

Blue – new course to be created

IMPACT ON FACULTY: None.

EFFECTIVE DATE: Fall 2026

JUSTIFICATION: Establishing a free-standing Bachelor of Science in Artificial Intelligence (AI) from the existing DSAI concentration in Computer Science is a strategic step to meet the rapidly growing demand for specialized AI professionals across industries. While the current concentration provides a foundation, elevating it to a stand-alone degree signals a stronger institutional commitment to preparing graduates with deep, focused expertise in AI theory, methods, and applications, beyond the broader scope of computer science. This distinction will enhance the program's visibility, attract a wider and more diverse pool of students, and better align with workforce needs as AI becomes a core driver of innovation in areas such as healthcare, defense, finance, and manufacturing. Furthermore, a dedicated AI degree enables the development of tailored curricula, industry partnerships, and research opportunities that equip graduates with the technical skills and ethical grounding necessary to thrive in this transformative field.

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried.

8. Nursing

New Course and New Flight Foundation Course

Justification: This course will expand the course offerings of the Social and Behavioral Sciences category of the General Education Curriculum providing additional options for students in both health and non-health majors.

Financial Impact: Minimal costs for course development and expected financial gain based on student enrollment.

NURS 2400 Introduction to Global Health. 3 credits

Course Description: This course offers a foundational overview of global health, examining key health issues, social and environmental determinants, and the systems and structures that impact population health worldwide. Understanding the interconnectedness of the global economy, security, and health is essential to civic engagement. As the COVID-19 pandemic has demonstrated, global health affects us all in ways that extend beyond healthcare. Emphasis is placed on access, ethics, and the interdisciplinary nature of global health. Students will acquire the tools to analyze challenges, evaluate interventions, and comprehend the significance of examining healthcare at the international level.

A syllabus is attached in Course Dog.

Effective Date: Spring 2026

Tennessee Tech University
Whitson-Hester School of Nursing
NURS 2400: Introduction to Global Health (3 Credit hours)

Dates, Times, Classroom, Number of Credit Hours, Semester

Instructor Information

[Provide multiple ways to contact you and a timeframe for expected responses. Include your preferred method of contact – office hours, drop-in visits, email, phone, etc.]

Instructor's Name

Office

Telephone Number

Campus Email

Course Information

Prerequisites: None

Texts and References

Required: Skolnik, R. (2021). Global Health 101 (4th ed.). Jones and Bartlett Learning. ISBN: 9781284145380

Course Description

This course offers a foundational overview of global health, examining key health issues, social and environmental determinants, and the systems and structures that impact population health worldwide. Understanding the interconnectedness of the global economy, security, and health is essential to civic engagement. As the COVID-19 pandemic has demonstrated, global health affects us all in ways that extend beyond healthcare. Emphasis is placed on access, ethics, and the interdisciplinary nature of global health. Students will acquire the tools to analyze challenges, evaluate interventions, and comprehend the significance of examining healthcare at the international level.

Course Objectives/Student Learning Outcomes

Define global health and describe its scope, history, and importance.

Identify and analyze major global health issues, including communicable and non-communicable diseases.

Examine the social, environmental, and economic factors that influence health worldwide.

Understand global health governance and the roles of key organizations.

Apply interdisciplinary approaches and research methods in global health.

Demonstrate cultural competence and collaborative skills for global health engagement.

Describe the potential of emerging technologies to improve global health.

Major Teaching Methods: Online, asynchronous. Video lectures, self-paced guided reading assignments, online quizzes and exams, and project-based learning.

Special Instructional Platform/Materials: iLearn, laptop with Respondus lockdown browser and a webcam

Topics to be Covered

1. The principles and goals of global health
2. Survey of global health systems
3. Determinants of health, key health indicators, and measurement
4. Communicable and noncommunicable diseases
5. The burden of global disease
6. Health literacy, access, and the economy
7. Natural disasters and complex humanitarian emergencies
8. International systems and approaches to improve global health
9. Emerging science and technology to improve global health

Course Schedule

Week	Topic	Assignment
1	Introduction to Global Health: Course Orientation	
2	The Principles and Goals of Global Health	
3	Quiz 1	Access Quiz via iLearn
4	Survey of Global Health Systems	
5	Determinants of Health, Key Health Indicators, Measurement	
6	Quiz 2	Access Quiz via iLearn
7	Health Literacy and Issues Related to Access	
8	Impact of Communicable Diseases on Global Health	

9	Quiz 3	Access Quiz via iLearn
10	Impact of Non-Communicable Diseases on Global Health	
11	Case Study Prep	
12	The Role of Global Health in Economics and Security	Case Study Assignment Due
	Quiz 4	Access Quiz via iLearn
13	Emerging Science and Technology to Improve Global Health Outcomes	
14	Natural Disasters and Complex Human Emergencies	Tech Pitch Assignment Due
15	Dead Week	Final Exam Prep
16	Final Exam	Access Final Exam via iLearn

Course Breakdown

Quizzes: 25 questions each. Multiple-choice and short-answer format

Final Exam: 100 questions. Multiple-choice and short-answer format

Case Study: In this assignment, students will examine a major global pandemic and analyze its impact on global health systems, populations, and policies. The goal is to deepen understanding of how communicable diseases intersect with international political, social, economic, and environmental factors, highlighting the interconnectedness of the modern world.

Tech Pitch Assignment: Emerging technologies (AI, mHealth apps, drone delivery systems, and biosensors) are transforming healthcare delivery, especially in low-resource settings. This assignment invites students to research and present a compelling case for how one specific emerging or inventive technology can significantly improve global health outcomes. Students can submit a three-minute video pitch or a two-page briefing memo.

Grading and Evaluation Procedures

Assessment	Point Value
Quizzes X 4 (50 points each)	200
Final Exam	200
Case Study	50
Technology Pitch	50
Total points	500

Grading Scale

Grading Scale:	Letter Grade:
90-100	A
80-89	B
70-79	C
60-69	D
68 and below	F

Course Policies

Student Academic Integrity Policy

Maintaining high standards of academic integrity in every class is critical to the reputation of Tennessee Tech, its students, faculty, alumni, and the employers of Tennessee Tech graduates. Academic integrity is at the foundation of the educational process and key to student success. Students with academic integrity are committed to honesty, ethical behavior, and avoiding academic integrity violations. All students must read and understand Policy 216: Student Academic Integrity. Please see the Academic Integrity website (<https://www.tntech.edu/provost/academicintegrity/>) for more information.

Attendance Policy

Respondus Monitor for online/remote testing:

1. Each quiz/exam may be taken only once.
2. You will be given a set time to complete the quiz/exam, and then it will close. Please pay close attention to the due dates of the quiz/exam.
3. Follow any time limits for the quiz/exam, including submitting it by the due date and time.
4. All exams are open-note, and all resources, including other students, are allowed. Peer collaboration during exams is encouraged.
5. If, for some reason, there are extenuating circumstances, and a student cannot complete the quiz/exam by the date due, this must be negotiated with faculty in advance; otherwise, it will be a 0 (zero) if the quiz is missed.

Student expectations:

Students must log on to the course iLearn site and check TTU E-mail regularly. We recommend checking your TTU email at least three times a week. Please respond to faculty emails or telephone calls within 48-72 hours. Students who are unable to attend class for an extended period due to an emergency/extenuating circumstance (i.e., medical illness, hospitalization, death in the family/bereavement, military or legal obligation) may contact the Office of the Vice President for Student Affairs at studentaffairs@tntech.edu to request an absence notification.

- No late assignments are accepted without proof of extenuating circumstances and communication with the instructor.
- Students must always be respectful and professional and abide by TTU's Honor Code. Plagiarism is strictly prohibited. A breach of these standards may result in the failure of an assignment or the entire course.
- Learn how to navigate the TTU Course Management System, iLearn. Please refer to the iLearn Help module if you need assistance with submitting discussions, assignments, quizzes/exams, or using the calendar.
- Stay informed of course announcements and check the course site daily. Please pay attention to the posted news announcements and any emails sent. If you receive an email, make it a priority to read it.
- Always use the assigned college or university e-mail address instead of a personal e-mail address. Faculty will not respond to a non-TN Tech email address.
- Generative AI resources are permitted in this course. To indicate the use of a Generative AI resource, a student should include the following statement in their assignments: "The author(s) acknowledge the utilization of [Generative AI Tool Name], a language model developed by [Generative AI Tool Provider], in the preparation of this assignment. The [Generative AI Tool Name] was employed in the following manner(s) within this assignment [e.g., brainstorming, grammatical correction, citation, specific section of the assignment]."

Disability Accommodation

Students with a disability requiring accommodations should contact the accessible education center (AEC). An accommodation request (AR) should be completed as soon as possible, preferably by the end of the first week of the course. The AEC is located in the Roaden University Center, room 112; phone 931-372-6119. For details, view Tennessee Tech's policy 340 – [services for students with disabilities at policy central](#).

Additional Resources

Technical Help

If you are experiencing technical problems, visit the [myTech IT Helpdesk](#) for assistance.

If you are having trouble with one of the instructional technologies (i.e. Zoom, Teams, Qualtrics, Respondus, or any technology listed [here](#)) visit the [Center for Innovation in Teaching and Learning](#) (CITL) website or call 931-372-3675 for assistance.

For accessibility information and statements for our instructional technologies, visit the [CITL's Learner Success Resource page](#).

Tutoring

The university provides free tutoring to all Tennessee Tech students. Tutoring is available for any class or subject, as well as writing, test prep, study skills, and resume support. Appointments are scheduled, so contact the [Learning Center website](#) for more information.

Health and Wellness

Counseling Center

The Counseling Center offers brief, short-term, solution-focused therapeutic interventions for Tennessee Tech University students. The staff of the Counseling Center is available to assist students with their personal and social concerns in hopes of helping them achieve satisfying educational and life experiences. To learn more or schedule an appointment, visit the [Counseling Center website](#).

Health Services

Health Services offers high-quality, affordable care that is accessible and promotes the health and wellness of our Tennessee Tech community. Visit the [Health Services](#) website to learn more.

Pandemic Protocols

Each student must take personal responsibility for knowing and following any University protocol related to pandemics and other public health events. Students are expected to follow all directives published by Tennessee Tech on its official webpage. As conditions related to the COVID-19 pandemic change, the University's COVID-19 protocols are also likely to change. Students are expected to monitor the University's official webpage to stay up to date on public health protocols.

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried.

9. **Military Science**

Course Changes

FROM:

MS 1010 – Fundamental Concepts

Lec. 2. Credit 2.

TO:

MS 1010 – Fundamental Concepts

Lec. 2. Credit 2.

Prerequisite: Academically aligned as a Freshman or Sophomore in degree of study. Prereq may be waived by Professor of Military Science.

Justification:

MS 1010 is the first class of an eight (8) class curriculum required in order to (IOT) qualify for commission into the Army as a Second Lieutenant. Individuals academically mis-aligned have no eligibility for commission into the Army (purpose of the course and program) and could create a distraction to other students in the course.

Financial Impact: None

Effective Date: Spring 2026

FROM:

MS 1020 – Basic Leadership Lec. 2. Credit 2.

TO:

MS 1010 – Basic Leadership Lec. 2. Credit 2.

Prerequisite: Academically aligned as a Freshman or Sophomore in degree of study. Prereq may be waived by Professor of Military Science.

Justification:

MS 1020 is the second class of an eight (8) class curriculum required in order to (IOT) qualify for commission into the Army as a Second Lieutenant. Individuals academically mis-aligned have no eligibility for commission into the Army (purpose of the course and program) and could create a distraction to other students in the course.

Financial Impact: None

Effective Date: Spring 2026

Motion to approve: Lisa Zagumny

Second: Julie Baker

Vote: Motion Carried.

10. Other Such Matters

- a. Dr. Wendt mentioned that a few syllabi submitted for approval by UCC should include an Academic Integrity Statement as well as an Artificial Intelligence use statement and that UCC will host more meetings this year to enable approval of course for Flight Foundations and approval of updated curricula.
- b. Gail shared a chart of curricula (in UCC Teams) that need to be updated to meet the new Flight Foundations by Fall 2026 and requested that departments review the chart for accuracy.

With no other matters and no further discussion at 4:23. p.m., Dr. Jeremy Wendt proposed that the meeting be adjourned.

Motion to approve: Curtis Armstrong

Second: Lisa Zagumny

Vote: Motion Carried.