University Curriculum Committee

April 3, 2025, Meeting Minutes

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

Members Present:

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

Members Absent:

Omar Abdelsalam (student)	Sean Alley	Abigail Jo Breeden (student)	John Craw (student)
Mike Gotcher	Kimberly Hanna	Michael Hoane	Augusta Long (student)
Karen Lykins	Richard Rand	Mohan Rao	Matthew Smith
Benjamin Sweeney	Chris Wilson	Kumar Yelamarthi	

Official Representative(s):

Lynette Harvey for Kimberly Hanna	Alma Nunez for Sean Alley	Kris Craven for Chris Wilson	

Guests:

Mary McCaskey	Angie Briggs	Deborah Allen	Kelley Jones
Autumn McDaniel			

University Curriculum Committee Agenda

April 3, 2025

Item #	Department	Agenda Item
01	UCC	Approval of Agenda
02	UCC	Approval of 2/27/25 Minutes
03a	Human Ecology	4 New Courses, 5 Course Deletions, 2 Curriculum Changes
03b	Human Ecology	2 New Courses, 5 Course Changes, 3 Curriculum Changes
03c1	Human Ecology	5 New Courses
03c2	Human Ecology	1 New Certificate**
03d	Human Ecology	1 New Certificate**
04a	Agriculture	7 Course Changes
04b	Agriculture	1 Course Change - ANPS
04c	Agriculture	1 Name Change with Curriculum Change**
05	Curriculum & Instruction	2 Curriculum Changes
06	Electrical Engineering	4 Course Deletions
07	Physics	1 Name Change with Curriculum Change**, 1 Curriculum Change, 2 New Concentrations**, 1 Minor Change*
08a	Computer Science	2 New Courses
08b	Computer Science	1 Course Change
08c	Computer Science	1 Course Change
09a	Chemistry	1 New Course
09b	Chemistry	INFORMATION - Gen Ed Curriculum approval - CHEM1710
10a	Math	2 Course Changes
10b	Math	INFORMATION - Math 1904 approved for Gen Ed Curriculum
11	Foreign Languages	2 Curriculum Changes
12a	General & Industrial Engineering	1 New Course, 1 Course Change
12b	General & Industrial Engineering	1 New Course
13	Communication & Media	1 Course Change
14	Sociology & Political Science	1 Course Deletion
15	Nursing	13 Course Changes & INFO: Admission requirement changes
16	Economics, Finance & Mkt	2 Course Changes
17	Environmental Studies	1 New Course
18a	Exercise Science	Curriculum Change - Exercise Physiology
18b	Exercise Science	Curriculum Change - Pre-Physical Therapy
18c	Exercise Science	Curriculum Change - Fitness & Wellness
18d	Exercise Science	Curriculum Change - Pre-Occupational Therapy
19a	Decision Science	1 Course Change
19b	Decision Science	Curriculum Change
19c	Decision Science	Program Name Change **
20a	Biology	3 Curriculum Changes - WFSF, WFSC, WFSW
20b	Biology	2 Curriculum Changes - Marine, Cellular & Molecular
21	Music	7 Course Changes
22a	Accounting	Course Change - ACCT 2120
22b	Accounting	Course Change - ACCT 3190
23	Interdisciplinary Studies	10 New Courses, 1 Course Deletion, 1 Curriculum Change
24	Other such matters	Election of Chair for 2025-2026 Academic Year

*** Academic Council** **** Academic Council and THEC approval required**

Proceedings:

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

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

2. **Approval of Minutes – March 27, 2025**
   Motion to approve: Julie Baker
   Second: Lisa Zagumny
   Vote: Motion Carried

3a. Human Ecology

a. New Courses

i. HEC 4305 Fashion Styling Lec 3. Credit 3
Prerequisite: HEC 3350 Minimum grade of D; may not be taken concurrently. Analysis of manners in which fashion, the body, and dress can be transformed to meet individual, environmental, and promotional needs. Exploration of fashion styling as it relates to individual clothing choices, editorial photoshoots, stage presence, and other promotional aspects of fashion styling. Application of these concepts through experiential learning opportunities.

Justification: Fashion Styling was piloted as a Special Topics course during the Fall 2024 semester, per student request for the content knowledge, and was met with positive review from students enrolled in the course. Additionally, in review of other Fashion-based curriculums across the state, this content knowledge is unique to our program, which will set us apart from peer institutions. Fashion styling is one entry-level career option for graduates of the Fashion Merchandising and Design concentration, covering content in fashion design and aspects of fashion merchandising, necessitating the addition of this course content to the concentration core.

Financial Impact: None; will be taking the place of a deleted course on the curriculum

ii. HEC 3215 Introduction to Nutrition Research and Scholarly Writing Lec 3. Cr. 3.
Prerequisite: HEC 2240. Introduction to nutrition research, including research methodologies, interpretation of current professional literature, code of ethics in research, utilizing nutrition research resources and databases, and writing and presenting research. Emphasis on aspects of scholarly writing.

Justification: To add additional content in the research process specific to nutrition and dietetics and to further provide evidence of meeting ACEND standard 1.1 "Demonstrate how to locate, interpret, evaluate and use

professional literature to make ethical, evidence- based practice decisions". This addition is also the result of removing HEC 1010 from all the HEC curriculums (presented in a separate memo). See attached syllabus.

Financial Impact: None; will be taking the place of a deleted course on the curriculum

Effective Date: Fall 2025

iii. HEC 3316 Professionalism in Portfolio Design Lec. 3. Cr 3.
Exploration of physical and digital methods to prepare a portfolio comprised of completed design works, both theoretical and practical. This content will be evaluated and demonstrated through a variety of portfolio presentation methods, including aspects of professionalism, based on the student's specific area of study.

Justification: To add 1 credit to the existing course and change the title to be more reflective of professionalism in portfolio design creation.

Financial Impact: None

Effective Date: Fall 2025

iv. HEC 3212 Careers and professional Preparation in Nutrition and Dietetics Lec 3. Credit 3.
Prerequisites: HEC 2020 and Department Approval. Career opportunities in nutrition and dietetics. Roles and responsibilities of Registered Dietitian/Nutritionists. Current issues in professionalism. Routes to professional memberships. Preparation of supervised practice applications and supporting documents.

Justification: As noted later in this memo regarding the deletion of HEC 4215, the national application platform for dietetics graduate programs changed its fall deadline to October 1. The deadline had previously been in February, allowing students to take HEC 4215 in the Fall semester and have all their documents ready for submission in early spring semester. Now it is necessary to offer the content in the spring semester, so students have sufficient time to prepare their graduation application materials in time for the October 1 deadline. Since we were already offering HEC 3210 in the spring as a 1 credit course; combining that content with the 4215 content seems most efficient. See attached syllabus.

Financial Impact: None

Effective Date: Fall 2025

b. Course Deletions

i. HEC 4215 Professional Preparation/Nutrition and Dietetics Lec 2. Credit 2.
This course will be combined with HEC 3210 to become a 3-credit course. The national platform used to apply to graduate dietetics programs (DICAS - Dietetics Inclusive Centralized Application Service) changed its Fall deadline to October 1. It has become necessary to move all the content from HEC 4215 which was a fall course, to HEC 3210 which is a spring course to allow students sufficient time to prepare personal statements, resumes, and research graduate programs. See below for this course change. We are also requesting to change HEC 3210 from a 1 credit to a 3-credit class.

Effective Date: January 2026 - will offer one more time in Fall 2025

ii. HEC 2220 Medical Terminology Lec 1. Credit 1.
Due to the new mandate to offer an in-person section for each required online section of a course in an in-person degree; it is necessary to delete this course as a required course on the dietetics curriculum. The content will be dispersed into other courses. Human Ecology does not have resources available to teach both online and in-person sections of this course as it is a packaged course from the textbook publisher and meant to be completed as an online course. HEC 2220 was taken by other departments, and those departments/advisors have been emailed to alert them to this change.

iii. HEC 1030 Introduction to Nutrition Lec 2. Credit 2.
Due to the new mandate to offer an in-person section for each required online section of a course in an in-person degree; it is necessary to delete this course as a required course on the HDFS curriculum. We will keep our other nutrition class HEC 2020 and offer it both online and in person. Human Ecology does not have the resources to offer HEC 1030 both online and in person. This nutrition class was taken by other departments, and those departments have been emailed to alert them of this change.

Effective Date: January 2026- will offer one more time in Fall 2025

iv. HEC 1005 Introduction to Human Ecology Lec 1. Credit 1.
This course was created to emphasize the American Association of Family and Consumer Sciences (AAFCS) Body of Knowledge. As the degree programs have changed in recent years with Housing and Merchandising concentrations becoming their own degree; and the deletion of Family and Consumer Sciences Education -this course is no longer needed. We will continue to emphasize the AAFCS Body of Knowledge in other courses.

v. HEC 1010 Lifespan Development Lec 3. Cr. 3.
HEC 1010 content is taught across 3 other courses: HEC 2200, HEC 3500 and HEC 3700. There is no longer a need for a stand-alone course in Lifespan Development. The content for HEC 1010 is also very similar to the content found in HEC 2065 Families and Society; and we intend to keep this course as a

required course. Additionally freeing up the 3 credits, allows each program of study more flexibility in course offerings. Many transfer students have already taken PSY 2130, and we have a standing substitution to use this course in place of HEC 1010.
Please see attached curriculum sheets to reflect these course deletions.

Financial Impact: None

Effective Date: Fall 2025 (except for HEC 4215 and HEC 1030-January 2026)

c. Curriculum Changes
    i. From: Child and Family Trauma Informed Care Certificate
    Required Courses (9 hours): HEC 1010, HEC 2065 and HEC 4075
    Choose Two (6 credit hours): PSY 3040, HEC 3066, HEC 3525, and HEC 4610
    Choose one (3 credit hours): HEC 3565, LIST 3600, PSY 4810

    To: Child and Family Trauma Informed Care Certificate
    Required Courses (9 credit hours): ~~HEC 1010~~, Delete HEC 1010 and add: HEC 4610. (The required courses would be HEC 2065, HEC 4075 and HEC 4610)
    Choose ~~two (6 credit hours}~~; Choose Three (9 credit hours) PSY 3040, HEC 3066, HEC 3525, ~~and HEC 4610~~; LIST 3600, PSY 4810, PSY 4100* and PSY 4130*
    ~~Choose one (3 credit hours): HEC 3565, LIST 3600, PSY 4810~~ (Remove this part)
    *Student must have already met prerequisites for these classes

    Justification: HEC 1010 is being removed from the Human Ecology curriculum due to its content being taught across other classes; there is no longer a need for this stand-alone class. We already have in place a standing substitution for PSY 2130 to be used for HEC 1010; and as we see more and more students taking PSY 2130 we no longer need to offer HEC 1010. HEC 3565 is being removed from the undergraduate curriculum as we transition to a graduate program in Child Life. We will continue to offer HEC 3565 during the teach out phase of our transition; but it no longer needs to be included in this Trauma Certificate.

    ii. Curriculum Changes for Nutrition and Dietetics Plan of Study:
    From: SOC 1010 or ANT 1100 in Fall Freshman Year, HEC 1010 in Fall Freshman Year, HEC 1005 in Spring Freshman Year, Literature in Fall Sophomore Year, HEC 3275 or EXPW 4042 or EXPW 3170 or Advisor Approved Course in Spring Junior Year, and HEC 4215 in Fall Senior Year, HEC 2220 in Sophomore Year

    To:
    Fall Freshman Year: Remove HEC 1010 and replace with Humanities, Change SOC 1010 to be Social/Behavioral 3 credits- credits remain 14 credits
    Spring Freshman Year: Remove HEC 1005- credits will be 13 credits

Fall Sophomore Year: Move ENGL 2130/2235/2330 to Fall Junior Year. Fall Sophomore Year includes BIOL 2350, HEC 2020, HEC 2240 and MATH 1530 for 14 credits.

Spring Sophomore Year: Elective credit becomes 4 credits, and total credits is 17 credits; Remove HEC 2220 1 credit

Fall Junior Year: Move HEC 3290 to this semester. Move HEC 3240 to Spring semester of Junior Year. Humanities moved to Freshman Year and ENGL Literature moved to this semester. Fall Junior Year should include HEC 3290, BIOL 3230, ENGL 2130, Elective Credit and the HEC 3275/EXPW sequence for total 16 credits.

Spring Junior Year: Add revised HEC 3212 here. PSY 1030 should be in this semester. Credits should be 16 credits.

Fall Senior Year: Remove HEC 4215. HEC 3100 has been renumbered to HEC 4100 in a previous memo. Credits should be 15 credits and include HEC 4200, HEC 4271, HEC 4925, HEC 4100 and HEC 3011.

Spring Senior Year: Should be HEC 4272, HEC 4262, HEC 4945, HEC 4242 and CHEM 4500 for 15 credits.
See attached curriculum sheet for details.

Financial Impact: None

Effective Date: Fall 2025

Nutrition and Dietetics ~~2024-2025~~ 2025-2026

Fall Freshman		Spring Freshman	
ENGL 1010	3	ENGL 1020	3
CHEM 1010	4	CHEM 1020	4
~~HEC 1010~~ Humanities	3	~~HEC 1005~~	~~1~~
HEC 1040	1	HIST 2010	3
~~SOC 1010 or ANTH 1100~~ Social/Behavioral Gen Ed	3	HEC 2065	3
	14		~~14~~ 13
Fall Sophomore		**Spring Sophomore***	
BIOL 2350 OR BIOL 2010/2020	4	CHEM 3005	4
HEC 2020	3	Elective Credit	~~2~~ 4
HEC 2240	4	COMM 2025	3
~~ENGL 2130/2235/2330~~		HUMANITIES/Fine Arts	3
Math 1530	3	~~HEC 2220~~	~~1~~
		HIST 2020	3
	~~17~~ 14	(BIOL 2020-4)	17

*Apply to Upper Division DPD Program minimum 3.0 GPA

Fall Junior		Spring Junior	
~~HEC 3011~~ HEC 3290 ~~HEC 3240~~	3	HEC 3201	3
		HEC 3270	3
BIOL 3230	4	~~HEC 3290~~ HEC 3240	~~3~~ 4
~~HUMANITIES~~ ENGL 2130/2235/2330	3	~~CHEM 4500~~ PSY 1030	3
Elective Credit	3	HEC 3212 (New)	~~1~~ 3
HEC 3215 (New)	3	~~HEC 3275 or EXPW 4042 OR EXPW 3170 or Advisor Approved Course~~	
	~~14~~ 16		16
Fall Senior		**Spring Senior**	
~~HEC 4215~~ Remove		HEC 4272	3
HEC 4200	3	HEC 4262	3
HEC 4271	3	HEC 4945	3
HEC 4925	3	HEC 4242	3
HEC ~~3100~~ 4100	3	~~PSY 1030~~ CHEM 4500	3
HEC 3011	3		
	15		15

3b. Human Ecology

a. New Courses

i. HEC 4390 Fashion Event Production Lec 3. Credit 3.
Prerequisite: HEC 3350, HEC 4320, and HEC 4360, Minimum grade of D.
Analysis of the ways in which promotion, advertising, styling, public relations, event production, and event management intersect in fashion event production. Explore aspects of professionalism, ranging from appropriate correspondence with vendors, to development of objectives, to successful event production. Application of these concepts through experiential learning opportunities.

Justification: Students in the Fashion Merchandising & Design concentration work to plan a Senior Fashion Show each Spring to showcase their culminating work in the program. In prior years, this was completed by students enrolled in Independent Studies or through Special Topics coursework. Coursework in fashion production has become standard at many peer institutions, in addition to being recommended by multiple professional organizations, to provide content knowledge in event production and management, a popular career field for graduates of Fashion Merchandising & Design programs. This will also allow time for students to create apparel items and styled looks for the fashion show, with a submission process to ensure work is appropriate, which must be included in their digital portfolios.

Financial Impact: None; will be taking the place of 3 credit hours of guided electives.

Effective Date: Fall 2025

ii. HEC 3645Human Sexuality in Family Science Lec 3. Credit 3.
Prerequisite: HEC 2065. Explore the component of Human Sexuality Across the Lifespan as required by the Certified Family Life Educational credential through the National Council on Family Relations (NCFR).
Justification: The School of Human Ecology seeks to provide a specific human sexuality course based on the requirements of the National Council of Family Relations. While EXPW 2150 has been on our curriculum in the past, its content is not relevant to the understanding of human sexuality in family science. Adding HEC 3645 Human Sexuality in Family Science will provide students with foundational knowledge in Human Sexuality in the context of Family Science, which is one of the ten content areas within the Family Life Education (FLE) framework needed for Certified Family Life Educator (CFLE) credential.

Financial Impact: None -will be replacing an existing course on the curriculum

Effective Date: Fall 2025

b. Course Changes
   i. From: HEC 4900-Special Topics - Lec. 1-7. Credits 1-7.

      To: HEC 4900-Special Topics -Lec. 0-7. Credits 0-7.

      Justification: We need to offer a zero-credit course option; re request to change the credit hours on our Special Topics course from 1-7 to 0-7 credits.

   ii. From: HEC 3310 -Textiles I - Lec 2. Lab 2. Credit 3.

To: HEC 3310 -Concepts of Textile Production - Lec 3. Credit 3.

Justification: Textiles I is too broad of a course name to appropriate reflect the type of work being completed in the course. The first textiles course covers textile production as an integral aspect of the design industry, from fiber to fabric. This new course name better reflects the topics being covered and identifies the course as being rooted in core concepts of textile production.

Financial Impact: None

Effective Date: Fall 2025

iii. From: HEC 3320 -Textiles II - Lec 2. Lab 2. Credit 3.

To: HEC 3320-Applications of Textiles – Lec. 2. Lab 2. Credit 3.

Justification: Textiles II is too broad of a course name to appropriate reflect the type of work being completed in the course, while also not adequately representing the research component of the course. The second textiles course covers the ways in which textiles are utilized in design industries, including the naming of fabrics, in addition to aspects of sustainability and how they impact society. This new course name better reflects the topics being covered and the fact it is a higher order of thinking, through application of the material learned in the HEC 3310 course (Textiles I).

Financial Impact: None

Effective Date: Fall 2025

iv. From: HEC 4360- Buying Principles in the Design Industry - Lec 3. Credit 3.

To: HEC 4360-Retail Math Concepts- Lec 3. Credit 3.

Justification: The nature of this course is more focused to understanding the mathematical calculations necessary to develop purchasing reports and allocations contracts. It is not focused solely on buying in the design industry and is more suited to understanding how to utilize mathematical formulas to properly cost, price, and allocate items once purchased. This new course name better reflects the topics being covered and the fact it is a course based in mathematical calculations in the design industry. The inclusion of "Math" in the course title is a common title among other Merchandising programs to indicate the content included in the course.

Financial Impact: None

Effective Date: Fall 2025

v. From: HEC 3525 Parent Child Relationships Credit 3 Prerequisites: HEC 1010 or HEC 2200 with a grade of C or better
To: HEC 3525 Parent Child Relationships Credit 3 Prerequisites: HEC 2200 with a grade of C or better

Justification: Removing HEC 1010 from course offerings

Financial Impact: None

Effective Date: Fall 2025

c. Curriculum Changes
   i. Fashion Merchandising and Design Concentration
   From: Fall Senior Year
   Guided Electives 6 credits

   To: Fall Senior Year

   Add HEC 4315 to Fall of Senior year; Add HEC 4305, Remove 3 credit hours of Guided Electives; Total credits is 18 for Fall of Senior Year

   From: Spring Senior Year
   HEC 4315 3 credits

   To: Spring Senior Year
   Move HEC 4315 to Fall of Senior year; Add HEC 4390 to Spring of Senior year; Total credits is 15 for Spring of Senior Year

   From: Guided Electives
   HEC 4360, HEC 4460, AGHT 3400, ART 1250, HEC 4320, HEC 3360, HEC 4326, CEE 3340, CEE 4340

   To: Guided Electives
   HEC 2041, HEC 3360, HEC 4460, ART 1250, ART 2610, BMGT 3510, JOUR 2200, Apparel Courses HEC 2300, 3300, 4300, 4301

   From Spring Junior Year:
   HEC 3315, 2 credits, Total Credits 14 credits

   To Spring Junior Year
   HEC 3316, 3 credits, Total Credits 15 credits

   From Fall Freshman Year:
   Math 3 credits, Total Credits 17

   To Spring Freshman Year:

Move Math here, Remove HEC 1010, Remove 1005, Total Credits are 13 credits.

Fashion Merchandising and Design

~~2024-2025~~ 2025-2026

Fall Freshman		Spring Freshman	
ENGL 1010	3	ENGL 1020	3
Natural Science	~~4~~	Natural Science	~~4~~
HEC 1110	3	HEC 1150	3
HEC 1040	1	~~HEC 1010~~	~~3~~
SOCIAL SCIENCE	3	~~HEC 1005~~	~~1~~
~~MATH~~ move to spring fr year	~~3~~	Math	3
	~~17~~		~~14~~
	14		13
Fall Sophomore		**Spring Sophomore**	
HIST 2010	3	HIST 2020	3
SOCIAL SCIENCE	3	COMM 2025 or PC 2500	3
HEC 2065	3	HEC 2355	3
HUMANITIES/FINE ART	3	ENGL 2130/2235/2330	3
HEC 1125	3	HUMANITIES/FINE ART	3
	15		15
Fall Junior		**Spring Junior**	
HEC 3350	3	Guided Electives	6
HEC 3011	3	HEC 3320	3
HEC 3310	3	Apparel Course	3
HEC 2315	3	HEC 3315	~~2~~ 3
Guided Elective	3		
	15		~~14~~
			15
Fall Senior		**Spring Senior**	
Apparel Course	3	HEC 4320	3
HEC 4326	3	HEC 4360	3
HEC 4340	3	HEC 4990	6
Guided Electives	6	HEC 4315	3
HEC 4305	3		
	~~15~~		15
	18		

Guided Electives: HEC 4360, HEC 4460, AGHT 3400, ART 1250, HEC 4320, HEC 3360, HEC 4326, CEE 3340, CEE 4340 Apparel Courses: HEC 2300, HEC 3300, HEC 4300 or HEC 4301

ii. Curriculum Changes in the Architecture and Interior Design Concentration

From: Spring Freshman Year:
HEC 1005, HEC 1010, 17 credits

To: Spring Freshman Year:

Remove HEC 1005, and HEC 1010; Replace HEC 1010 with Guided Elective, Total credits are 16 credits. The change from Chemistry to Natural Science was made in a fall curriculum proposal.

From Spring Junior Year:
HEC 3315 2 credits, Total Credits 16

To Spring Junior Year:
HEC 3316 3 credits, Total Credits 17
Guided Electives- the addition of courses in the Guided Electives section was made in a fall curriculum proposal

Architecture and Interior Design

~~2024-2025~~ 2025-2026

Fall Freshman		Spring Freshman	
ENGL 1010	3	ENGL 1020	3
~~CHEM 1010~~ See previous memo	4	~~CHEM 1020~~ See previous memo	4
HEC 1040	1	~~HEC 1005~~	~~1~~
SOCIAL SCIENCE	3	HEC 2041	3
MATH	3	HUMANITITES/FINE ARTS	3
		~~HEC 1010~~	~~3~~
	14	Guided Elective 3	~~17~~ 16
Fall Sophomore		**Spring Sophomore**	
HEC 2065	3	HEC 1150	3
HEC 1110	3	HEC 2440	3
HEC 2421	3	ENGL 2130/2235/2330	3
HEC 1125	3	COMM 2025 or PC 2500	3
SOCIAL SCIENCE	3	HEC 2431	3
	15		15
Fall Junior		**Spring Junior**	
HEC 3431	3	HEC 3316	~~2~~ 3
HEC 3310	3	HEC 3320	3
HEC 3350	3	GUIDED ELECTIVES	6
HUMANITIES/FINE ARTS	3	HEC 2460	2
HIST 2010	3	HIST 2020	3
HEC 2411	1		
	16		~~16~~ 17
Fall Senior		**Spring Senior**	
HEC 3011	3	HEC 4990 Internship	6
HEC 4340	3	HEC 4315	3
GUIDED ELECTIVES	9	HEC 4450	3
	15		12

Guided Electives: HEC 4360, HEC 4460, AGHT 3400, ART 1250, HEC 4320, HEC 3360, HEC 4326, CEE 3340, CEE 4340, HEC 4900, HEC 4960, HEC 4990, GEOG 3200, GEOL 1045, GEOG 4510, GEOG 2100, GEOG 1130, MATH 1730, MATH 1910, MATH 1920, MATH 1710, PHYS 2010, PHYS 2109, AGHT 3460, ART 1045, ART 1050, ART 2410, ART 3410, ART 2810, ART 2910, ART 2710, ART 2610, ART 2510, AGET 3600, AGRN 3600, AGRN 2400, ESS 4110, GEOG 3710, GEOL 1070, COMM 3030, JOUR 3030, ART 2060, JOUR 3270, HEC 2425, HEC 2435, HEC 2445, HEC 3435

iii. Curriculum Changes in the Human Development and Family Science concentration

From Fall Freshman Year:

HEC 1030 2 credits

To Fall Freshman Year:

Add in HEC 2020, 3 credits, Total credits are 17 credits

From Spring Freshman Year:
HEC 1005, HEC 1010

To Spring Freshman Year:

Remove HEC 1005, Remove 1010, Add in Guided Electives 3 credits

Total credits are 16 credits

From Spring Junior Year:
HEC 3565

To Spring Junior Year:
Remove HEC 3565 and Replace with Guided Electives, Total Credits remains 15 credits Guided Electives: Add SOC/SW 4000 to Guided Electives list

From Fall Junior Year:
EXPW 2130

To Fall Junior Year:
Replace EXPW 2150 with HEC 3645, 3 credits, Total credits remain 15 credits

Financial Impact: None

Effective Date: Fall 2025.

Human Development and Family Science
~~2024–2025~~ 2025–2026

Fall Freshman		Spring Freshman	
ENGL 1010	3	ENGL 1020	3
Natural Science	4	Natural Science	4
HEC 1040	1	~~HEC 1005~~	~~1~~
Math	3	SOC 1010	3
~~HEC 1030~~	~~2~~	Humanities/Fine Arts	3
HEC 2020	3		
ART 1030 or MUS 1030	3	~~HEC 1010~~	~~3~~
		Guided Electives	3
			~~17~~
	17		16
Fall Sophomore		**Spring Sophomore**	
ENGL 2130/2235/2330	3	COMM 2025 or PC 2500	3
HIST 2010	3	HIST 2020	3
Guided Elective	3	ECSP 2400	3
HEC 2200	3	HEC 2510	3
PSY 1030	3	HEC 2065	3
	15		15
Fall Junior		**Spring Junior**	
HEC 4100	3	HEC 3275 OR Guided Elective	3
HEC 3011	3	~~HEC 3565~~	~~3~~
		Guided Elective	3
~~EXPW 2150~~ HEC 3645	3	HEC 3066	3
HEC 3500	3	HEC 3700	3
HEC 3525	3	HEC 4065	3
	15		15
Fall Senior		**Spring Senior**	
HEC 3660	3	HEC 4630	3
HEC 4055	3	HEC 4910 (Internship)	6
HEC 4075	3	ECSP 4300	3
HEC 4600	3		
HEC 4610	3		
	15		12

Guided Electives: HEC 2250, HEC 2550, HEC 4315, SOC 2840, SOC 3650, SOC 2630, SOC/SW 4000, LIST 2093/3093, LIST 3600, LIST 3620, LIST 4050, LIST 4710, Advisor Approved Psychology Courses Based on Semester Availability/Course Offerings.

3c1. Human Ecology

a. New Courses

i. HEC 3012 Coalitions and Community Organization in Substance Misuse Prevention Lec 3. Cr.3
This course provides an in-depth understanding of the role and functioning of coalitions in preventing substance misuse. It covers theoretical frameworks, practical strategies, and the importance of community

involvement and cross-sector collaboration. The course is part of the Prevention Specialist Certificate program.

ii. HEC 3505 Prevention Planning and Evaluation io Substance Misuse Lec.3. Cr.3.
This course provides a comprehensive overview of the planning and evaluation processes in substance misuse prevention. It covers the development of prevention programs, strategic planning, implementation, and evaluation methods. The course is part of the Prevention Specialist Certificate program.

iii. HEC 3501 Prevention Science Practicum Prac.3. Cr.3.
Supervised practical experience in a variety of professional settings.

iv. HEC 3013 Substance Misuse Prevention Policy and Local Change Lec.3. Cr. 3.
This course explores the intersection of public policy and local efforts to prevent substance misuse. It examines how policies are developed, implemented, and evaluated at various governmental levels, and the role of local communities in influencing and responding to these policies. The course is part of the Prevention Specialist Certificate program.

v. HEC 3510 Community and Environmental Strategies Lec. 3. Cr. 3.
Exploring community and environmental changes in communities regarding substance abuse by utilizing assessment data, the strategic prevention framework, community coalitions, and policy change.

Justification:
These new courses make up the Substance Misuse Prevention Specialist Certificate, which is being proposed in a separate memo. By establishing this new certificate, Tennessee Tech University aims to:

1. Address the workforce gap in substance misuse prevention specialists within our region and state.
2. Enhance community resilience and well-being through evidence-based prevention strategies.
3. Equip professionals with the expertise to implement effective prevention strategies and reduce the incidence of substance misuse.
4. Support local and statewide efforts to combat substance abuse, promote mental health, and reduce disparities.
5. Contribute to the overall health and well-being of communities by promoting evidence-based practices and supporting local prevention efforts.

The Substance Misuse Prevention Specialist Certificate program aligns with Tennessee Tech University's commitment to academic excellence, community engagement, and public service. Through rigorous education,

practical experience, and ethical leadership development, graduates will be prepared to lead initiatives that mitigate the impact of substance misuse, promote health equity, and foster resilient communities and make meaningful contributions to the health and well-being of individuals and communities. This certificate is the only one of its kind and sets Tennessee Tech apart as a leader in Prevention Science.

Financial Impact: None

Effective Date: Fall 2025

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

3c2. Human Ecology - New Certificate

a. Addition of Substance Misuse Prevention Specialist Certificate- Fall 2025

In 2022, 17.3% of people over the age of 12 had a Substance Use Disorder (SUD) in the past year (SAMSHA, 2023). Annually, Tennessee SUD costs an estimated $2 billion (Tennessean, 2017). Coalitions are formed to prevent substance misuse, and over 750 coalitions in the United States received funding in 2024 (CDC, 2024). Research demonstrates that prevention must begin with the complex understanding of compounding behavioral health problems within the context of complex communities (SAMSHA, 2023). Practitioners recognize the pressing need to implement solutions for their communities in substance misuse and prevention and the growing need for prepared, well-educated prevention specialists.

Substance misuse, including opioid addiction, alcohol abuse, and emerging substance use trends, continues to pose significant public health challenges in Tennessee and nationwide. The state's communities face increasing rates of substance-related disorders, underscoring the critical need for trained prevention specialists who can implement evidence-based practices and initiatives. The need for qualified prevention specialists has never been more pressing. Prevention specialists play a pivotal role in mitigating these issues by implementing evidence-based strategies that promote wellness, resilience, and positive behavioral change. As well, the employment outlook regarding the field of community health workers is projected to grow by 14% over 2022-2032, with a projected 8,000 occupational openings annually (U.S. Bureau of Labor Statistics, 2023). This certificate could render job opportunities for TN Tech students.

All 50 states and Washington, DC have credentialing requirements for Certified Prevention Specialists (CPS). Part of the credentialing process involves 120 hours of prevention training education, 120 hours of supervised experience, the International Certification and Reciprocity Consortium (IC&RC) Prevention Specialist examination, work and/or volunteer experience, among other requirements such as

background checks and adherence to ethics. The certificate program at TN Tech will contain 360 hours of education that will apply to the CPS educational requirements and prepare students for the IC&RC Prevention Specialist examination, along with 120 hours of supervised practical experience.

The Prevention Specialist Certificate program at Tennessee Tech University seeks to address the profound impact of substance misuse on individuals, families, and communities across our region. This certificate equips students with specialized knowledge and skills essential for implementing effective prevention strategies and interventions.

Target Audience:
This certificate will have two audiences. The first audience is non-degree seeking students who are professionals already working in the field and wish to add this certification to their skill set. The Prevention Specialist Certificate will enable the student to be eligible to sit for the state-wide exam to become a Certified Prevention Specialist. Having this certification will directly impact their career opportunities. The admission criteria for this first audience are a high school diploma. The second audience is currently enrolled TN Tech students who wish to complete this certificate before graduation and take the certification exam while still at TN Tech. The certificate program is designed for aspiring professionals in fields such as public health, social work, counseling, nursing, criminal justice, family science, education, and community advocacy who seek specialized training in substance misuse prevention. It also serves as a valuable credential for graduates seeking to enter the field of prevention or related disciplines.

Impact:
By establishing a Prevention Specialist Certificate program, Tennessee Tech University aims to:

- Address the workforce gap in substance misuse prevention specialists within our region and state.
- Enhance community resilience and well-being through evidence-based prevention strategies.
- Equip professionals with the expertise to implement effective prevention strategies and reduce the incidence of substance misuse.
- Support local and statewide efforts to combat substance abuse, promote mental health, and reduce disparities.
- Contribute to the overall health and well-being of communities by promoting evidence-based practices and supporting local prevention efforts.

The Prevention Specialist Certificate program aligns with Tennessee Tech University's commitment to academic excellence, community engagement, and public service. Through rigorous education, practical experience, and ethical leadership development, graduates will be prepared to lead initiatives that mitigate the impact of substance misuse, promote health equity, and foster resilient communities and make meaningful contributions to the health and well-being of

individuals and communities. This certificate is the only one of its kind and sets Tennessee Tech apart as a leader in Prevention Science.

The certificate will be awarded to any student who completes the required sequence of courses as outlined below. Residency of 15 hours to be completed at TN Tech will be required. Students will be expected to successfully complete all courses with a grade of "C" or better to earn the certificate.

Required (18 hours):
SOC/SW 4000 Substance Misuse, Addiction, & Recovery (3 hours)
HEC 3012 Coalitions & Community Organization in Substance Misuse Prevention (3 hours) HEC 3505 Prevention Planning & Evaluation in Substance Misuse (3 hours)
HEC 3501 Prevention Science Practicum (3 hours)
HEC 3013 Substance Misuse Public Policy & Local Change (3 hours)
HEC 3510 Community and Environmental Strategies (3 hours)

Effective Date: Fall 2025

Financial Impact: None

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

3d. Human Ecology - New Certificate – Pre-Child Life

The Pre-Child Life Certificate will provide undergraduate students in the School of Human Ecology's Human Development and Family Science Concentration foundational courses to be best prepared to pursue a child life degree at the graduate level.

Proposed Courses: 21 Credit Hours

- HEC 2065: Families in Society {3cr)
- HEC 2200: Development Conception to Age 6 (3 er)
- HEC 2250: Child Life Theory & Practice {3cr)
- HEC 251 0: Foundations of Play (3cr)
- HEC 2550: Children in Healthcare {3cr)
- HEC 3275: Research in Family Science {3cr)
- HEC 3500: Middle Childhood & Adolescence {3cr)

As we move toward implementing the MS in Child Life in Fall 2026 {pending approvals); we will teach out the undergraduate Child Life concentration. In place of the concentration, we seek to offer this Pre-Child Life Certificate for those students who wish to pursue Child Life at the graduate level. This certificate will ensure they have the foundation knowledge needed, to be competitive in applying to Child Life graduate programs.

Financial Impact: There is no cost involved in adding this certificate.

Effective Date: Fall 2025, pending THEC approval.

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

4. <u>Agriculture</u>

a. Course Changes:
AGRN 3020, AGRN 3100, AGRN 3350, AGRN 4130, AGRN 4210, AGRN 4220, AGRN 4230

Justification: Previously, the above AGRN courses required AGRN 2000 or 3000 as a prerequisite. These courses were replaced by AGRN 2400. Course catalogs and syllabi need to be updated to include AGRN 2400.

Financial Impact: None

Effective Date: Fall 2025

b. Course Change:
From: ANPS 3990 1 credit hour class to 1-6 credit hours.

Justification: The original proposal should have had 1-6 hours but was entered incorrectly. This course may also be repeated for additional credit.

Financial Impact: None

Effective Date: Fall 2025

c. Curriculum and Concentration Name Change
Change Agronomy & Soils concentration to Agronomy & Precision Agriculture

Justification: Agronomy careers are expected to grow by 5% by 2029. Between 2023 and 2031, the global precision agriculture job market has an expected 10-12% compound annual growth rate and a $22 billion valuation. Precision agriculture relies on GPS and GIS technologies to improve production efficiency and promote environmental stewardship. Additionally, graduates will benefit from the hands-on applications of these technologies by using unmanned aerial systems to capture, analyze, and interpret agronomic data. The new Agronomy & Precision Agriculture (AP A) concentration gives TN Tech a competitive advantage by providing hands-on application and expertise for graduates to enter the precision ag sector with advanced working knowledge of both agronomy and precision agriculture technologies.

Financial Impact: Updated marketing materials

Effective Date: Fall 2025

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

5. <u>Curriculum and Instruction</u>

a. Curriculum Changes – Early Childhood Practitioner, B.S.

<u>Freshman Year First Semester</u>
From:
MATH 1410-Number Concepts for Teachers (credit 3) Natural Sciences (BIOL) (credit 3-4)
Total: 15-16

To:
MATH 1410- Number Concepts for Teachers (credit 3) or Mathematics (Gen Ed) (credit 3)
Natural Sciences (Gen Ed) (credit 4)
Total: 16

<u>Freshman Year Second Semester</u>
From:
MATH 1420-Geometry Concepts for Teachers (credit 3) Natural Sciences (non-BIOL) (credit 3-4)
Total: 15-16

To:
MATH 1420- Geometry Concepts for Teachers (credit 3) or Mathematics (Gen Ed) (credit 3)
Natural Sciences (Gen Ed) (credit 4)
Total: 16

<u>Notes on Program of Study</u>
From:
[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.

To:
[1] HEC majors and ECED Practitioner majors may take advisor approved upper division courses without admission to Teacher Education.

<u>Additional Note on Program of Study</u>
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 Natural Science note on Program of Study.
Justification: In consultation with faculty and a focus on several new student groups (especially transfer students), the science sequence is being broadened to ease applicability of transfer credits. In addition, the math sequence needs to more broad in order to accommodate gen ed transfers and math requirements.

b. Curriculum Changes – Multidisciplinary Studies, Generalist, B.S.
<u>Freshman Year First Semester</u>
From:
FOED 2050. Education and Technology (credit 3) Math 1410. Math for General Studies (credit 3) OR Mathematics (Gen Ed)2 (credit 3)
Natural Sciences (Gen Ed)1 (credit 4)
Social/Behavioral Sciences (Gen Ed)3 (credit 3)

To:
Elective (credit 3)
Mathematics (Gen Ed) (credit 3)
Natural Sciences (Gen Ed) (credit 4)
Social/Behavioral Sciences (Gen Ed) (credit 3)

<u>Freshman Year Second Semester</u>
From:
Natural Sciences (Gen Ed)1 (credit 4)
PHED (credit 1)
Electives (credit 3)
Total: 14

To:
Natural Sciences (Gen Ed) (credit 4)
Electives (credit 6)
Total: 16

<u>Sophomore Year First Semester</u>
From:
FOED 3010. Integrating Instructional Technology into the Classroom (credit 3)
To:
Elective (credit 3)

<u>Sophomore Year Second Semester</u>
From:
Humanities/Fine Arts Elective (Gen Ed)4 (credit 3)
Any EXPW Elective (credit 3)
Social/Behavioral Sciences (Gen Ed)3 (credit 3)
Any ECED (credit 3) OR
Any ECSP (credit 3) OR
HEC Elective (credit 3)

Electives (credit 3)

To:
Humanities/Fine Arts Elective (Gen Ed) (credit 3)
Social/Behavioral Sciences (Gen Ed) (credit 3)
Electives (credit 9)

Junior Year First Semester
From:
Guided Electives (Advisor Approved) (credit 6)
LSCI 4570. Young Adult Literature (credit 3) OR
Any 3000/4000 level READ course (credit 3)

To:
Guided Electives (Advisor Approved) (credit 9)

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

To:
Guided Electives (Advisor Approved) (credit 6)
Electives (credit 9)

Senior Year First Semester
From:
Any three different areas to total 9 hours: Any 2000-4000 level ACCT
Any 2000-4000 level BMGT
Any 2000-4000 level COMM
Any 2000-4000 level ECON
Any 2000-4000 level ENGL
Any 2000-4000 level FIN
Any 2000-4000 level HIST Any 2000-4000 level LAW Any 2000-4000 level LIST Any 2000-4000 level MKT Any 3000/4000 level PHIL Any 3000/4000 level PSY Any 3000/4000 level SOC or CJ
Any 3000/4000 Education Electives5 (credit 6)

To:
Education Electives (3000/4000 level)1 (credit 6)
Focus Area (credit 9) OR
Minor (credit 9)

Senior Year Second Semester
From:
Any three different areas to total 9 hours: Any 2000-4000 level ACCT
Any 2000-4000 level BMGT
Any 2000-4000 level COMM
Any 2000-4000 level ECON
Any 2000-4000 level ENGL
Any 2000-4000 level FIN
Any 2000-4000 level HIST Any 2000-4000 level LAW Any 2000-4000 level LIST Any 2000-4000 level MKT Any 3000/4000 level PHIL Any 3000/4000 level PSY
Any 3000/4000 level SOC or CJ
Any 3000/4000 Education Electives[5] (credit 6)
Total 15

To:
Education Electives[1] (credit 6)
Focus Area (credit 7) OR Minor (credit 7)
Total: 13

Notes on Program of Study
From:
[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] Overall, the program must include at least 36 hours of upper division.
To:
[1] Select Education Electives from: CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, EXPW, FOED, LSCI, PSY, READ, SEED, SPED, or SVCL.

Justification: These program updates will facilitate a reduction in course substitutions, while allowing students to work with their advisors to identify focus areas or a minor in the multidisciplinary degree pathway. This added flexibility will increase degree options and should encourage an increase in enrollment in the program.

Financial Impact: None

Effective Date: Fall 2025

Early Childhood Practitioner, B.S.

Freshman Year

Freshman Year First Semester	Cr.Hrs.
ENGL 1010-English Composition I	3
FOED 2050-Education and Technology	3
Humanities/Fine Arts Elective (Gen Ed)	3
Mathematics (Gen Ed) or MATH 1410-Number Concepts for Teachers	3
Natural Sciences ~~(BIOL)~~ (Gen Ed)	~~3-4~~ 4
Total: ~~15-16~~	16

Freshman Year Second Semester	Cr. Hrs.
COMM 2025-Fundamentals of Communication **OR** PC 2500-Communicating in the Professions	3
ENGL 1020-English Composition II	3
HIST 2010-Early United States History	3
Mathematics (Gen Ed) or MATH 1420-Geometry Concepts for Teachers	3
Natural Sciences ~~(non-BIOL)~~ (Gen Ed)	~~3-4~~ 4
Total: ~~15-16~~	16

Sophomore Year

Sophomore Year First Semester	Cr.Hrs.
Advisor Guided Electives	3
ECSP 2500-The Developing Child: Pre-Birth to Age 8	3
ENGL 2130-Topics in American Literature **OR** ENGL 2235-Topics in British Literature **OR** ENGL 2330-Topics in World Literature	3
Humanities/Fine Arts Elective (Gen Ed)	3
Social/Behavioral Sciences Elective (Gen Ed)	3
Total: 15	

Sophomore Year Second Semester	Cr. Hrs.
ECSP 2400-Children with Special Needs	3
FOED 3010-Integrating Instr Tech into Clasrm	3
HIST 2020-Modern United States History	3
Social/Behavioral Sciences Elective (Gen Ed)	3
Total: 12	

Junior Year

Junior Year First Semester	Cr.Hrs.
ECED 4290(5290)-Community Connections	3
ECSP 3001-Curric for Infants, Toddlers, and Presch	3
ECSP 4100-Dev Appropriate Practices: K-4	3
ECSP 4300(5300)-Assessment of Young Children	3
~~FOED 3810-Field Experiences in Education~~	~~1-2 (2 required)~~
Total: ~~14~~ 12	

Junior Year Second Semester	Cr.Hrs.
ECED 4230(5230)-Early Intervention I	3
ECED 4261-Early Childhood Advocacy & Leadership	6-8 (7 hrs required)
ECSP 4000-Dev Approp Practices: Birth - Presch	3
ECSP 4010-Practicum: Preschool Practices	2
READ 3330-Inclusive Emergent Literacy	3
Total: 18	

Early Childhood Practitioner, B.S.

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)~~		
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		**Total:** ~~15~~ 16	

NOTES:

~~[1]Overall, the program must include at least 36 hours of upper division.~~

[1]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

Items in BLUE voted on February 25, 2025

Multidisciplinary Studies, Generalist, B.S.

Freshman Year			
Freshman Year First Semester	**Cr. Hrs.**	**Freshman Year Second Semester**	**Cr. Hrs.**
Elective	3	ENGL 1020-English Composition II	3
ENGL 1010-English Composition I	3	HIST 2010-Early United States History	3
~~FOED 2050-Education and Technology~~	~~3~~	Natural Sciences (Gen Ed)~~1~~	4
~~MATH 1410-Math for General Studies OR~~ Mathematics (Gen Ed)~~2~~	3	~~PHED~~	~~1~~
Natural Sciences (Gen Ed)~~1~~	4	Electives	~~2~~ 6
Social/Behavioral Sciences (Gen Ed)~~3~~	3	**Total:** ~~14~~ 16	
Total: 16			

Sophomore Year			
Sophomore Year First Semester	**Cr. Hrs.**	**Sophomore Year Second Semester**	**Cr. Hrs.**
Elective	3	Humanities/Fine Arts Elective (Gen Ed)~~4~~	3
COMM 2025-Fundamentals of Communication **OR** PC 2500-Communicating in the Professions	3	~~Any EXPW Elective~~	~~3~~
ENGL 2130-Topics in American Literature **OR** ENGL 2235-Topics in British Literature **OR** ENGL 2330-Topics in World Literature	3	Social/Behavioral Sciences Electives (Gen Ed)~~3~~	3
~~FOED 3010-Integrating Inst Tech into the Class~~	~~3~~	~~Any ECED OR~~ ~~Any ECSP OR~~ ~~HEC Elective~~	~~3~~
HIST 2020-Modern United States History	3	Electives	~~3~~ 9
Humanities/Fine Arts (Gen Ed)	3	**Total: 15**	
Total: 15			

Junior Year			
Junior Year First Semester	**Cr. Hrs.**	**Junior Year Second Semester**	**Cr. Hrs.**
Guided Electives (Advisor Approved)	~~6~~ 9	Guided Electives (Advisor Approved)	~~3~~ 6
~~LSCI 4570-Young Adult Literature OR~~ ~~Any 3000/4000 Level READ course~~	~~3~~	~~HEC 3500-Development: Mid Child/Adolesc OR~~ ~~PSY 4100-Child Psychology~~	~~3~~
General Electives	6	~~SPED 2010-Introduction to Special Education OR~~ ~~Any 3000/4000 Level SPED Course OR~~ ~~UST 4050-Sign Language I~~	~~3~~
Total: 15		~~Genera~~ Electives	~~6~~ 9
		Total:15	

Multidisciplinary Studies, Generalist, B.S.

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 UST~~			~~Any 2000-4000 level UST~~	
~~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 (3000/4000 level) ~~5~~ 1	6		~~Any 3000/4000~~ Education Electives ~~5~~ 1	6
Focus Area **or**	9		Focus Area **or**	7
Minor			Minor	
Total: 15			**Total: ~~15~~ 13**	

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~~ 1 Select Education Electives from: CSED, CUED, ECED, ECSP, ELED, ESLP, ESOL, EXPW, FOED, LSCI, PSY, READ, SEED, SPED, or SVCL

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

Items in RED voted on September 24, 2024

Items in BLUE voted on February 25, 2025

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

6. Electrical Engineering

a. Course Deletions:

i. BCE 2850 - Principles of Electric Circuits
Lec. 3. Credit 3.

ii. ECE 3060 -Electrical Engineering Lab II
Lab. 3. Credit 1.

iii. ECE 3560 -EM Simulation Lab
Lab. 3. Credit 1.

iv. ECE 3760 -Telecommunications Lab
Lab. 3. Credit 1.

Justification: ECE 2850 and ECE 3060 have been replaced by other courses. ECE 3560 and ECE 3760 are obsolete as they have not been taught for several years and relevant content has been integrated into other courses.

Financial Impact: None

Effective Date: Fall 2025

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

7. <u>Physics</u>

a. Curriculum Changes
Curriculum Name Change
FROM: Physics concentration

TO: Pure Physics concentration
Justification: With the introduction of other concentrations, deeming this a concentration will bring it in line with the structure of other programs in the College of Arts and Sciences.

b. Changes to the Pure Physics concentration
   i. Remove CHEM 1120 General Chemistry II (4)
   ii. Remove MA TH 4510 Advanced Math for Engineers (3)
   iii. Replace PHY 2420 Modern Physics (3) with PHYS 3020 Topics in Modern Physics (3)
   iv. Add PHYS 3021 Modem Physics Laboratory (1)
   v. Replace PHYS 2920 Mathematical Physics (3) with PHYS 3060 Mathematical Techniques for Physics (4)
   vi. Replace PHYS 4730 Research Planning (1) with PHYS 4750 Scientific Proposal Writing (2)
   vii. Replacing PHYS 4740 Research (2) with PHYS 4760 Senior Thesis (3)

Justification: We are removing CHEM 1120 and MATH 4510 to accommodate the increase in credit hours of three of our new courses and the addition of the PHYS 3021 Modern Physics laboratory.

Tennessee TECH

Curriculum Comparison Table

Program: Physics B.S.

Proposed change: Name change to concentration and curriculum changes.

Current (120) Name of the Concentration: Physics		Proposed (Revised) (120) Name of the Concentration: Pure Physics	
General Education	***42***	***General Education***	***42***
Communications	9	Communications	9
Mathematics (MATH 1910)	4	Mathematics (MATH 1910)	4
History	6	History	6
Humanities/Fine Arts/Literature	9	Humanities/Fine Arts/Literature	9
Social/Behavioral Sciences	6	Social/Behavioral Sciences	6
Natural Sciences (PHYS 2110-2120)	8	Natural Sciences (PHYS 2110-2120)	8
Major Core	***48***	***Major Core***	***47***
PHYS 1137 (Frontiers of Physics)	1	PHYS 1137 (Frontiers of Physics)	1
PHYS 2110 (Calc-based Physics I with Lab)	4	PHYS 2110 (Calc-based Physics I with Lab)	4
PHYS 2120 (Calc-based Physics II with Lab)	4	PHYS 2120 (Calc-based Physics II with Lab)	4
PHYS 2420 (Modern Physics)*	3	PHYS 3020 (Topics in Modern Physics)*	3
PHYS 2920 (Mathematical Physics)*	3	PHYS 3021 (Modern Physics Lab)*	1
PHYS 3120 (Statistical Thermal Physics)	3	PHYS 3060 (Mathematical Techniques in Physics)*	4
PHYS 3610 (Classical Mechanics)	3	PHYS 3120 (Statistical Thermal Physics)	3
PHYS 3810 (Quantum Mechanics I)	3	PHYS 3610 (Classical Mechanics)	3
PHYS 4610 (Electricity & Magnetism I)	3	PHYS 3810 (Quantum Mechanics I)	3
MATH 1910 (Calc I)	4	PHYS 4610 (Electricity & Magnetism I)	3
MATH 1920 (Calc II)	4	MATH 1910 (Calc I)	4
MATH 2110 (Calc III)	4	MATH 1920 (Calc II)	4
MATH 2120 (Differential Equations)	3	MATH 2110 (Calc III)	4
MATH 3470 (Probability & Statistics)	3	MATH 2120 (Differential Equations)	3
MATH 4510 (Advanced Math for Engineers)*	3	MATH 3470 (Probability & Statistics)	3
CHEM 1110 (General Chemistry I)	4	CHEM 1110 (General Chemistry I)	4
CHEM 1120 (General Chemistry II)*	4	CSC 1300 (Intro Problem solving & programming)	4
CSC 1300 (Intro Problem solving & programming)	4	CSC 1310 (Data structures & Algorithms)	4
Concentration	***23***	***Concentration***	***21***
PHYS 3820 (Quantum Mechanics II)	3	PHYS 3820 (Quantum Mechanics II)	3
PHYS 4130 (Computational Physics)	3	PHYS 4130 (Computational Physics)	3
PHYS 4620 (Electricity & Magnetism II)	3	PHYS 4620 (Electricity & Magnetism II)	3
PHYS 4710 (Advanced Experimental Physics)	4	PHYS 4710 (Advanced Experimental Physics)	4
PHYS 4730 (Research Planning)*	1	PHYS 4750 (Scientific Proposal Writing)*	2
PHYS 4740 (Research)*	2	PHYS 4760 (Senior Thesis)*	3
MATH 3810 (Complex Variables)	3	MATH 3810 (Complex Variables)	3
CSC 1310 (Data structures & Algorithms)	4		
Electives	***7***	***Electives***	***10***
Total	**120**	**Total**	**120**

Green highlighted cells indicated courses within the Major core that also count toward General Education requirements.

* We are making the following changes:

- Under the Major Core, we are removing CHEM 1120 and MATH 4510.

- We are replacing the following courses with equivalent versions that have been elevated to the 3000-level and in all but one case, have also increased in credit hours:
  - PHYS 2420 (3) with PHYS 3020 (3) and adding a lab PHYS 3021 (1);
  - PHYS 2920 (3) with PHYS 3060 (4);
  - PHYS 4730 (1) with PHYS 4750 (2); and
  - PHYS 4740 (2) with PHYS 4760 (3)

Four-Year Plan for B.S. Degree in Physics
Pure Physics Concentration
Tennessee Tech University
PROPOSED

FIRST YEAR

FALL	Total Cr. Hrs.	15	SPRING	Total Cr. Hrs.	15
Course		Cr. Hrs.	Course		Cr. Hrs.
ENGL 1010 English Composition I		3	ENGL 1020 English Composition II		3
PHYS 1137 Frontiers of Physics		1	MATH 1920 Calculus II		4
MATH 1910 Calculus I		4	PHYS 2110 Calc-based Physics I w/Lab		4
CHEM 1110 General Chemistry I		4	CSC 1300 Intro Prob Solving & Comp Prog		4
Humanities/Fine Arts		3			

SECOND YEAR

FALL	Total Cr. Hrs.	15	SPRING	Total Cr. Hrs.	14
Course		Cr. Hrs.	Course		Cr. Hrs.
ENGL 2130 or ENGL 2235 or ENGL 2330		3	MATH 2120 Differential Equations		3
MATH 2110 Calculus III		4	PHYS 3020 Topics in Modern Physics		3
PHYS 2120 Calc-based Physics II w/Lab		4	PHYS 3021 Modern Physics Laboratory		1
CSC 1310 Data Structures & Algorithms		4	PHYS 3060 Math Techniques in Physics		4
			PC 2500 Communicating in the Professions		3

THIRD YEAR

FALL	Total Cr. Hrs.	15	SPRING	Total Cr. Hrs.	15
Course		Cr. Hrs.	Course		Cr. Hrs.
PHYS 3610 Classical Mechanics		3	PHYS 3120 Statistical Thermal Physics		3
PHYS 4610 Classical E & M I		3	PHYS 3810 Quantum Mechanics I		3
MATH 3470 Intro to Probability & Stats		3	PHYS 4620 Classical E & M II		3
Humanities/Fine Arts		3	MATH 3810 Complex Variables		3
Elective		3	Social/Behavioral Sciences		3

FOURTH YEAR

FALL	Total Cr. Hrs.	15	SPRING	Total Cr. Hrs.	16
Course		Cr. Hrs.	Course		Cr. Hrs.
PHYS 3820 Quantum Mechanics II		3	PHYS 4130 Computational Physics		3
PHYS 4710 Ad. Experimental Physics		4	PHYS 4760 Senior Thesis		3
PHYS 4750 Scientific Proposal Writing		2	HIST 2020 American History II		3
HIST 2010 American History I		3	Elective		7
Social/Behavioral Sciences		3			

c. Changes to Applied Physics Concentration
   i. Remove CHEM 1120 General Chemistry II (4)
   ii. Remove MATH 4510 Advanced Math for Engineers (3)
   iii. Remove PHYS 3 820 Quantum Mechanics II (3)
   iv. Remove PHYS 4620 Electricity & Magnetism II (3)
   v. Remove PHYS 4730 Research Planning (1)
   vi. Remove PHYS 4740 Research (1)
   vii. Replace PHY 2420 Modern Physics (3) with PHYS 3020 Topics in Modem Physics (3)
   viii. Add PHYS 3021 Modern Physics Laboratory (1)

ix. Replace PHYS 2920 Mathematical Physics (3) with PHYS 3060 Mathematical Techniques for Physics (4)

x. Add Physics electives
    1. FROM: none.
    2. TO: Choose from two of the following: PHYS 3820, PHYS 4130, PHYS 4620 or PHYS 4760

xi. Change additional program requirements statement

    FROM:

    Students in the Applied Physics concentration will select an approved program of at least 14 semester hours in other areas of science or engineering. At least 8 of these 14 hours must be in upper division courses.

    TO:

    Students minor in a Technical Field or agreed interdisciplinary program (15 er. hrs.) which includes at least 6 er. hrs. of upper division. The minor may be in any of the Natural Sciences disciplines offered in the College of Arts and Sciences (except Physics or Math), or any of the disciplines in the College of Engineering.

Justification: Reduces the number of hours of physics courses thus allowing students to obtain a minor in another science/engineering discipline or interdisciplinary combination of courses from multiple departments.

Four-Year Plan for B.S. Degree in Physics
Applied Physics Concentration
Tennessee Tech University
PROPOSED

FIRST YEAR

FALL	Total Cr. Hrs.	15	SPRING	Total Cr. Hrs.	15
Course	Cr. Hrs.		Course	Cr. Hrs.	
ENGL 1010 English Composition I	3		ENGL 1020 English Composition II	3	
PHYS 1137 Frontiers of Physics	1		MATH 1920 Calculus II	4	
MATH 1910 Calculus I	4		PHYS 2110 Calc-based Physics I w/Lab	4	
CHEM 1110 General Chemistry I	4		CSC 1300 Intro Prob Solving & Comp Prog	4	
Humanities/Fine Arts	3				

SECOND YEAR

FALL	Total Cr. Hrs.	15	SPRING	Total Cr. Hrs.	14
Course	Cr. Hrs.		Course	Cr. Hrs.	
ENGL 2130 or ENGL 2235 or ENGL 2330	3		MATH 2120 Differential Equations	3	
MATH 2110 Calculus III	4		PHYS 3020 Topics in Modern Physics	3	
PHYS 2120 Calc-based Physics II w/Lab	4		PHYS 3021 Modern Physics Laboratory	1	
CSC 1310 Data Structures & Algorithms	4		PHYS 3060 Math Techniques in Physics	4	
			PC 2500 Communicating in the Professions	3	

THIRD YEAR

FALL	Total Cr. Hrs.	15	SPRING	Total Cr. Hrs.	15
Course	Cr. Hrs.		Course	Cr. Hrs.	
PHYS 3610 Classical Mechanics	3		PHYS 3120 Statistical Thermal Physics	3	
PHYS 4610 Classical E & M I	3		PHYS 3810 Quantum Mechanics I	3	
MATH 3470 Intro to Probability & Stats	3		Science/Engineering[2]	6	
Science/Engineering[2]	3		Social/Behavioral Sciences	3	
Humanities/Fine Arts	3				

FOURTH YEAR

FALL	Total Cr. Hrs.	16	SPRING	Total Cr. Hrs.	15
Course	Cr. Hrs.		Course	Cr. Hrs.	
PHYS 4711 Adv. Experimental Physics	2		HIST 2020 American History II	3	
Physics Elective[1]	3		Physics Elective[1]	3	
Science/Engineering[2]	3		Science/Engineering[2]	3	
HIST 2010 American History I	3		Elective	6	
Social/Behavioral Sciences	3				
Elective	2				

[1] Students choose two from the following: PHYS 3820, PHYS 4130, PHYS 4620, or PHYS 4760.

[2] Students minor in a Technical Field or agreed interdisciplinary program (15 cr. hrs.) which includes at least 6 cr. hrs. of upper division. The minor may be in any of the Natural Sciences disciplines offered in the College of Arts and Sciences (except Physics or Math), or any of the disciplines in the College of Engineering.

d. NEW Concentration: Astrophysics
   i. Physics Core:

PHYS 1137 (Frontiers of Physics)	1
PHYS 2110 (Cale-based Physics I with Lab)	4
PHYS 2120 (Cale-based Physics II with Lab)	4
PHYS 3020 (Topics in Modem Physics)	3
PHYS 3021 (Modem Physics Lab)	1
PHYS 3060 Mathematical Techniques in Physics	4
PHYS 3120 (Statistical Thermal Physics)	3
PHYS 3610 (Classical Mechanics)	3
PHYS 3810 (Quantum Mechanics I)	3

PHYS 4610 (Electricity & Magnetism I)	3
MATH 1910 (Calc I)	4
MATH 1920 (Calc II)	4
MA TH 2110 (Calc III)	4
MA TH 2120 (Differential Equations)	3
MATH 3470 (Probability & Statistics)	3
CHEM 1110 (General Chemistry I)	4
CSC 1300 (Intro to Problem Solving & Programming	4
CSC 1310 Data Structures and Algorithms	4

ii. Concentration

ASTR 1010 (Intro Astronomy I)	4
ASTR 1020 (Intro Astronomy II)	4
GEOL 3310 (Planetary Geology)	3
ASTR 3100 (Observational Astronomy)	4
ASTR 4320 (Stellar Astrophysics)	3
ASTR 4310 (Introduction to Cosmology)	3
ASTR 4760 (Senior Thesis)	3

Justification: To provide more flexibility for our majors and to address the increased interest in astrophysics, we are proposing to create a new concentration in Astrophysics. We are leveraging the Astronomy minor and have created an additional 3 courses to round out concentration which are all upper-division courses.

Four-Year Plan for B.S. Degree in Physics
Astrophysics Concentration
Tennessee Tech University
PROPOSED

FIRST YEAR

FALL	Total Cr. Hrs. 15		SPRING	Total Cr. Hrs. 15	
Course	Cr. Hrs.		Course	Cr. Hrs.	
ENGL 1010 English Composition I	3		ENGL 1020 English Composition II	3	
PHYS 1137 Frontiers of Physics	1		MATH 1920 Calculus II	4	
MATH 1910 Calculus I	4		PHYS 2110 Calc-based Physics I w/Lab	4	
CHEM 1110 General Chemistry I	4		CSC 1300 Intro Prob Solving & Comp Prog	4	
PC 2500 Communicating in the Profs	3				

SECOND YEAR

FALL	Total Cr. Hrs. 15		SPRING	Total Cr. Hrs. 15	
Course	Cr. Hrs.		Course	Cr. Hrs.	
ENGL 2130 or ENGL 2235 or ENGL 2330	3		MATH 2120 Differential Equations	3	
MATH 2110 Calculus III	4		PHYS 3020 Topics in Modern Physics	3	
PHYS 2120 Calc-based Physics II w/Lab	4		PHYS 3021 Modern Physics Laboratory	1	
CSC 1310 Data Structures & Algorithms	4		PHYS 3060 Mathematical Techniques in Physics	4	
			ASTR 1020 Introduction to Astronomy II	4	

THIRD YEAR

FALL	Total Cr. Hrs. 16		SPRING	Total Cr. Hrs. 15	
Course	Cr. Hrs.		Course	Cr. Hrs.	
PHYS 3610 Classical Mechanics	3		PHYS 3120 Statistical Thermal Physics	3	
PHYS 4610 Classical E & M I	3		PHYS 3810 Quantum Mechanics I	3	
MATH 3470 Intro to Probability & Stats	3		GEOL 3310 Planetary Geology	3	
Humanities/Fine Arts	3		Humanities/Fine Arts	3	
ASTR 1010 Introduction to Astronomy I	4		Social/Behavioral Sciences	3	

FOURTH YEAR

FALL	Total Cr. Hrs. 15		SPRING	Total Cr. Hrs. 14	
Course	Cr. Hrs.		Course	Cr. Hrs.	
ASTR 3100 Observational Astronomy	4		ASTR 4310 Introduction to Cosmology	3	
ASTR 4320 Stellar Astrophysics	3		ASTR 4760 Senior Thesis	3	
HIST 2010 American History I	3		HIST 2020 American History II	3	
Social/Behavioral Sciences	3		Elective	5	
Elective	2				

e. NEW Concentration – Computational Physics

i. Physics Core:

PHYS 1137 Frontiers of Physics	1
PHYS 2110 Calc-based Physics I with Lab	4
PHYS 2120 Calc-based Physics II with Lab	4
PHYS 3020 Topics in Modern Physics	3
PHYS 3021 Modern Physics Lab	1
PHYS 3060 Mathematical Techniques in Physics	3
PHYS 3120 Statistical Thermal Physics	3
PHYS 3610 Classical Mechanics	3
PHYS 3810 Quantum Mechanics I	3
PHYS 4610 Electricity & Magnetism I	3
MATH 1910 Calc I	4
MATH 1920 Calc II	4
MATH 2110 Calc III	4
MA TH 2120 Differential Equations	3
MATH 3470 Probability & Statistics	3
CHEM 1110 General Chemistry I	4
CSC 1300 Intro Problem solving & programming	4

	CSC 1310 Data structures & Algorithms	4
ii.	Concentration	
	PHYS 4130 Computational Physics	3
	PHYS 4711 Advanced Experimental Physics	2
	CSC 2220 Data Science & AI for Everyone	3
	CSC 2400 Design of Algorithms	3
	CSC 2770 Intro to Systems & Networking	3
	CSC 3220 Fundamentals of Data Science	3
	Either (CSC 2510 & 4760) OR (CSC 2700 or Math 2610, & CSC 3300) Either PHYS 4760 or CSC 3020	6

Four-Year Plan for B.S. Degree in Physics
Computational Physics Concentration
Tennessee Tech University
PROPOSED

FIRST YEAR

FALL	Total Cr. Hrs. 15	SPRING	Total Cr. Hrs. 15
Course	Cr. Hrs.	Course	Cr. Hrs.
ENGL 1010 English Composition I	3	ENGL 1020 English Composition II	3
PHYS 1137 Frontiers of Physics	1	MATH 1920 Calculus II	4
MATH 1910 Calculus I	4	PHYS 2110 Calc-based Physics I w/Lab	4
CHEM 1110 General Chemistry I	4	CSC 1300 Intro Prob Solving & Comp Prog	4
PC 2500 Communicating in the Profs	3		

SECOND YEAR

FALL	Total Cr. Hrs. 15	SPRING	Total Cr. Hrs. 14
Course	Cr. Hrs.	Course	Cr. Hrs.
ENGL 2130 or ENGL 2235 or ENGL 2330	3	MATH 2120 Differential Equations	3
MATH 2110 Calculus III	4	PHYS 3020 Topics in Modern Physics	3
PHYS 2120 Calc-based Physics II w/Lab	4	PHYS 3021 Modern Physics Laboratory	1
CSC 1310 Data Structures & Algorithms	4	PHYS 3060 Math Techniques in Physics	4
		CSC 2220 Data Science & AI for Everyone	3

THIRD YEAR

FALL	Total Cr. Hrs. 15	SPRING	Total Cr. Hrs. 15
Course	Cr. Hrs.	Course	Cr. Hrs.
PHYS 3610 Classical Mechanics	3	PHYS 3120 Statistical Thermal Physics	3
PHYS 4610 Classical E & M I	3	PHYS 3810 Quantum Mechanics I	3
MATH 3470 Intro to Probability & Stats	3	CSC 2770 Intro to Systems & Networking	3
Humanities/Fine Arts	3	Humanities/Fine Arts	3
CSC 3220 Fundamentals of Data Science	3	Social/Behavioral Sciences	3

FOURTH YEAR

FALL	Total Cr. Hrs. 14	SPRING	Total Cr. Hrs. 17
Course	Cr. Hrs.	Course	Cr. Hrs.
PHYS 4711 Adv. Experimental Physics	2	PHYS 4130 Computational Physics	3
CSC Elective sequence[1]	3	CSC Elective sequence[1]	3
HIST 2010 American History I	3	CSC/PHY Elective[2]	3
Social/Behavioral Sciences	3	HIST 2020 American History II	3
Elective	3	Elective	5

[1] Students choose from one of the following sequences: (CSC 2520 and CSC 4760) or (CSC 2700 or MATH 22610 and CSC 3300).

[2] Student choose from either CSC 3020 or PHYS 4760.

Justification: Computational Physics is a rapidly expanding sub-field. Today, many companies, industries and research projects generate vast amounts of data which need to be analyzed via methods that can be learned through computational physics. In addition, many experimental projects include complex computer simulations in their planning. The Physics Department has been incorporating computational physics projects throughout its curriculum including developing an upper-division course in computational physics. We want to formalize our efforts into a new concentration by leveraging the expertise of current physics faculty and collaboration with the Computer Science Department.

f. Remove special condition statement related to the Physics minor
    i. (https ://undergrad.catalog. tntech. edu/ugrequirements/minors)
    FROM:
    A minor in any specific discipline in the College of Arts and Sciences must include 6 Upper Division hours. Exception: A minor in physics will consist of at least 15 hours of coursework including PHYS 2110, PHYS 2120, PHYS 2420, PHYS 2920 and one upper division physics course.

    TO: A minor in any specific discipline in the College of Arts and Sciences must include 6 Upper Division hours.

    ii. Replace the list of coursework for the Physics minor and replace with the statement below.
    FROM:
    A minor in physics will consist of at least 15 hours of coursework including:
        1. PHYS 2110 - Calculus-based Physics I
        2. PHYS 2120 - Calculus-based Physics II
        3. PHYS 2420 - Modem Physics
        4. PHYS 2920 - Mathematical Physics
        5. and one upper division physics course.

    TO:
    A Physics minor consists of 15 hours in PHYS courses (six hours must be at the 3000-4000 level).

    Justification: These last two changes are housekeeping items resulting from the increase in course level of the Modem Physics and Mathematical Physics courses which makes the additional statements and course list now unnecessary.

    Financial Impact: None

    Effective Date: Fall 2025

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

8. **Computer Science**
    a. New Courses
        i. CSC 1380 Algorithmic Thinking I
        Catalog Data:
        Lecture: 3 hours, Laboratory: 1 hour. Credits: 4 hours.
        Prerequisites: MATH 1830, MATH 1845, MATH 1904, or MATH 1910. May be taken concurrently.
        Problem solving and algorithm development; programming is introduced using a procedural approach, algorithmic design and testing are emphasized. Focus on foundational programming skills. Students complete a series of weekly laboratory exercises for developing proficiency in problem solving and computer programming.

        Financial Impact: None. All full-time faculty in Computer Science are qualified to teach this course.

        Effective Date: Fall 2025

        Justification: This course is a parallel course to the existing CSC 1300 but with a different language and targeted towards students in the Interdisciplinary Computing BS program. Students in the Computer Science BS will not be eligible to take this course as an elective, nor will it be a valid substitute for the CS BS due to the programming language used. Students in the Interdisciplinary Computing BS program may substitute CSC 1300 for this course.

        ii. CSC 1390 Algorithmic Thinking II
        Catalog Data:
        Lecture: 3 hours. Credits: 3 hours.
        Prerequisites: CSC 1380 or CSC 1300 and MATH 1830, MATH 1845, MATH 1904, or MATH 1910.
        Problem solving and algorithmic development using abstract data types and fundamental data structures including stacks, queues, and trees; algorithms to search, sort, and manipulate data using such structures; and introduction to runtime analysis.

        Financial Impact: None. All full-time faculty in Computer Science are qualified to teach this course.

        Effective Date: Fall 2025

        Justification: This course is a parallel course to the existing CSC 1310 but with a different language and targeted towards students in the Interdisciplinary Computing Program. Students in the Computer Science BS program will not be eligible to use this course as an elective nor will it be a valid substitute for the CS BS due to the programming language used.

Students in the Interdisciplinary Computing BS program may substitute CSC 1310 for this course.

b. Course Changes
    i. CSC 3300 - Database Mgmt Systems
    Current wording: C or better in CSC 1310, and either CSC 2700 or ECE 2140.

    Proposed wording: C or better in CSC 13 I 0, and either CSC 2700 or ECE 2140 or MATH 2610 or MATH 3400

    Justification: CSC 2700 and MATH 2610 are equivalent (cross-listed) courses. MATH 3400 is a more advanced version of CSC 2700 and MATH 2610.

    Financial Impact: None

    Effective Date: Fall 2025

c. Course Changes
    We are requesting the following change to the pre-requisites for CSC 4220.

    FROM:
    CSC 4220-Data Mining/Machine Leaming
    Prerequisites: MATH 3070 or MATH 3470 or MATH 4470 (5470), MATH 2010, and CSC 2400.

    TO:
    CSC 4220-Data Mining/Machine Leaming
    Prerequisites: MATH 2010 and (MATH 3070 or MATH 3470 or MATH 4470 or MATH 5470) and CSC 2310 and (CSC 2700 or MATH 2610 or MATH 3400).

    Justification: This course is required in the Mathematics Data Science concentration. The key to being successful in CSC 4220 is to have sufficient knowledge in programming including Python, basic algorithmic design, data structures, and logic. The courses listed above cover all of these areas, and by making this change, we feel that both CS and math students will be better prepared.

    Financial Impact: None

    Effective Date: Fall 2025

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

9. <u>Chemistry</u>

a. CHEM 1710: Culinary Chemistry, Lec. 3, Lab 3, Credit 4
Prerequisite: None. Culinary chemistry explores the chemical basis of many of our foods. Through this 4-credit hour, general education, integrated lab/lecture course, students will learn basic principles of chemistry including scientific thought, measurement dimensional analysis, atomic theory atomic structure, chemical bonding, chemical reactions, basic stoichiometry and kinetic theory while they experiment with food to learn what it is made of, how it is processed to get to our table, how is it preserved, and how we change it to make it more enjoyable.

Justification: Food and cooking have high popularity in the larger culture and the concept of culinary and food chemistry directly connects to the lives of students. This topic may also be of relevance to specific majors on campus including agriculture and human ecology. This course allows students to use food as the medium for scientific exploration. The focus is on learning to do science through the scientific method (posing and testing hypotheses, identifying sources of error, determining uncertainty, analyzing results, etc.). Students will develop scientific literacy quantitative analysis skills and strengthen their critical thinking abilities. They will gain knowledge of chemistry, as well as an understanding of how scientific knowledge is generated, critically evaluated, and communicated.

Financial Impact: There will be an initial financial investment to purchase some equipment (multi-cookers, kitchen utensils and tools, etc.) but the department has the financial resources to cover this. After the initial cost of starting the class, there will be the usual cost of purchasing consumables which will be consistent with the other lab-based courses offered in the department. There is no cost for faculty pay as this course will be taught within the normal load of existing faculty in the department.

Effective Date: Fall 2025

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

b. INFORMATIONAL ITEM:
Approval of CHEM 1710 for inclusion in the General Education curriculum
The General Education Committee approved two courses for inclusion in the General Education Curriculum. Each course meets the appropriate Student Learning Outcomes for its category.

In the Mathematics Category:
MATH 1904 Extended Calculus IA. Lec. 4 Credit 3. Prerequisite: ACT mathematics score of 27 or above and four years of high school mathematics including algebra, geometry, trigonometry, and advanced or pre-calculus mathematics; or special permission of the Mathematics Department; or C or better in MATH 1730; or C or better in MATH 1720 and MATH 1710; or equivalent.

Limits, continuity, and derivatives of functions of one variable with applications. Completion of BOTH MATH 1904 and MATH 1906 is equivalent to completion of MATH 1910. Students will not be given credit for MATH 1906 and MATH 1910.

In the Natural Sciences Category:
CHEM 1710. Culinary Chemistry. Lec. 3. Lab 3. Credit 4. Prerequisite: None. Culinary chemistry explores the chemical basis of many of our foods. Through this 4-credit hour, general education integrated
lab/lecture course, students will learn basic principles of chemistry including scientific thought, measurement, dimensional analysis, atomic theory, atomic structure, chemical bonding, chemical reactions, basic stoichiometry and kinetic theory while they experiment with food to learn what it is made of, how it is processed to get to our table, how it is preserved, and how we change it to make it more enjoyable.

10. <u>Mathematics</u>

a. Course Changes

i. MATH 1710 Precalculus Algebra Cr. 3
Prerequisite:

From: A minimum ACT Math sub-score of 19, OR completion of Learning Competencies 1 through 5, or a minimum grade of C in MATH 1000.

To: A minimum ACT Math score of 19, or a minimum grade of C in MATH 1000.

Justification: The minimum ACT of 19 or equivalent has been required at course placement
(https://www.tntech.edu/ssc/placement.php). Completion of Leaming Competencies is outdated and should be replaced with the minimum ACT of 19.

ii. MATH 1720: Precalculus Trigonometry Cr. 3
Prerequisite:

From: ACT mathematics score of 22 or higher or a minimum grade of C in MATH 1000, or a C or better in MATH 1710, or equivalent.

To: A minimum ACT Math score of 22, or a minimum grade of C in MATH 1710.

Justification: The minimum ACT of 22 or equivalent has been required at course placement (https://www .tntech.edu/ssc/placerneot.php). A successful completion of MATH 1000 is inadequate.

Financial Impact: No additional cost is associated with these changes.

Effective Date: Fall 2025

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

b. INFORMATIONAL ITEM:
Approval of MATH 1904 for inclusion in the General Education curriculum
The General Education Committee approved two courses for inclusion in the General Education Curriculum. Each course meets the appropriate Student Learning Outcomes for its category.

In the Mathematics Category:
MATH 1904 Extended Calculus IA. Lec. 4 Credit 3. Prerequisite: ACT mathematics score of 27 or above and four years of high school mathematics including algebra, geometry, trigonometry, and advanced or pre-calculus mathematics; or special permission of the Mathematics Department; or C or better in MATH 1730; or C or better in MATH 1720 and MATH 1710; or equivalent.
Limits, continuity, and derivatives of functions of one variable with applications. Completion of BOTH MATH 1904 and MATH 1906 is equivalent to completion of MATH 1910. Students will not be given credit for MATH 1906 and MATH 1910.

11. <u>Foreign Languages</u>

a. The Department of Foreign Languages is seeking to adjust the requirements for our Spanish concentrations (Option 1, Option 2).

Currently, Spanish majors are required to take an upper-level literature course (SPAN 4010 or 4020) and a culture course (SP AN 4110 or 4120)-both taught in the language of study. Faculty have also noticed a decline in the number of majors who intend to continue their language and literature studies in graduate school. For that reason, we propose to remove these courses as requirements in our Spanish, Option 1 and Option 2 cores. These courses will remain listed as Spanish Designated Electives in the catalog, and the Spanish program will continue to offer these courses regularly.

i. Spanish curricular change
FROM:
Foreign Language, Spanish, Option 1 core Complete ALL of the following Courses:
SPAN 1020 - Elementary Spanish 2
SPAN2010 - Intermediate Spanish 1
SPAN2020 - Intermediate Spanish 2
SPAN3010 - Written Communication/Spanish
SPAN3020 - Oral Communication in Spanish
SPAN4920 - Senior Capstone
SPAN4010 - Intro to Literature of Spain

OR SPAN4020 - Intro/Lit of Spanish America
SPAN4110 - Culture/Civilization of Spain
OR SPAN4120 - Culture/Civ of Spanish Amer

Spanish Designated Electives
Earn at least 6 credits from the following:
SP AN3200 - Spanish for Business I
OR SPAN4010 - Intro to Literature of Spain
OR SPAN4020 - Intro/Lit of Spanish America
OR SPAN4030 - Adv Spanish Conversation
OR SPAN4110 -Culture/Civilization of Spain
OR SPAN4120 -Culture/Civ of Spanish Amer
OR SP AN4810 - Special Topics in Spanish
OR SPAN4910 - Directed Studies in Spanish

TO:
Complete ALL of the following Courses:
SPAN1020 - Elementary Spanish 2
SPAN2010 - Intermediate Spanish 1
SPAN2020 -Intermediate Spanish 2
SPAN3010 - Written Communication/Spanish
SPAN3020 -Oral Communication in Spanish
SPAN4920 - Senior Capstone
~~SPAN4010 Intro to Literature of Spain~~
~~OR SPAN4020 Intro/Lit of Spanish America~~
~~SPAN4110 Culture/Civilization of Spain~~
~~OR SPAN4120 Culture/Civ of Spanish Amer~~

Spanish Designated Electives
Earn at least ~~6~~ 12 credits from the following:
SPAN3200 -Spanish for Business I
OR SPAN4010 -Intro to Literature of Spain
OR SPAN4020 - Intro/Lit of Spanish America
OR SPAN4030 -Adv Spanish Conversation
OR SPAN4110 - Culture/Civilization of Spain
OR SPAN4120 -Culture/Civ of Spanish Amer
OR SPAN4810 - Special Topics in Spanish
OR SPAN4910 -Directed Studies in Spanish

Apply to:
Foreign Languages, Spanish Option 1, B.A.
Foreign Languages, Spanish Option 2, B.A.

Justification: These changes align our curriculum with the prevailing career goals of our students.

These adjustments should offer our students more options when it comes to fulfilling their major core.

Most importantly, this change facilitates substitutions, especially for students who study abroad, and it removes scheduling bottlenecks for students who double major.

Financial Impact: None

Effective Date: Fall 2025

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

Curriculum Comparison Table

Program: Foreign Languages - Spanish (Option 2)
Proposed change: Currently, Spanish majors are required to take an upper-level literature course (SPAN 4010 or 4020) and a culture course (SPAN 4110 or 4120)—both taught in the language of study. Faculty have also noticed a decline in the number of majors who intend to continue their language and literature studies in graduate school. For that reason, we propose to remove these courses as requirements in our Spanish, Option 1 and Option 2 cores. These courses will remain listed as Spanish Designated Electives in the catalog, and the Spanish program will continue to offer these courses regularly.

Current or Existing (120)* Name of the Concentration:			Proposed (Revised or New) (120) Name of the Concentration:		
Rubric	*Title*	*SCH*	*Rubric*	*Title*	*SCH*
General Education		*41*	*General Education*		*41*
ENGL1010 - English Composition I ENGL1020 - English Composition II		9	ENGL1010 - English Composition I ENGL1020 - English Composition II		9
COMM2025 - Fundamentals of Communication OR PC2500 - Communicating in the Profess		3	COMM2025 - Fundamentals of Communication OR PC2500 - Communicating in the Profess		3
Mathematics		6	Mathematics		6
HIST2010 - Early United States History HIST2020 - Modern United States History		3	HIST2010 - Early United States History HIST2020 - Modern United States History		3
ENGL2130 - Topics in American Literature OR ENGL2235 - Topics in British Literature OR ENGL2330 - Topics in World Literature		6	ENGL2130 - Topics in American Literature OR ENGL2235 - Topics in British Literature OR ENGL2330 - Topics in World Literature		6
Humanities and/or Fine Arts		6	Humanities and/or Fine Arts		6
Social/Behavioral Sciences		8	Social/Behavioral Sciences		8
Natural Sciences		*24*	Natural Sciences		*18*
Major Core (Required)		24	*Major Core (Required)*		18
SPAN1020 - Elementary Spanish II SPAN2010 - Intermediate Spanish 1 SPAN2020 - Intermediate Spanish 2 SPAN3010 - Written Communication/Spanish SPAN3020 - Oral Communication In Spanish SPAN4920 - Senior Capstone SPAN4010 - Intro to Literature of Spain OR SPAN4020 - Intro/Lit of Spanish America SPAN4110 - Culture/Civilization of Spain OR SPAN4120 - Culture/Civ of Spanish Amer			SPAN1020 - Elementary Spanish II SPAN2010 - Intermediate Spanish 1 SPAN2020 - Intermediate Spanish 2 SPAN3010 - Written Communication/Spanish SPAN3020 - Oral Communication In Spanish SPAN4920 - Senior Capstone		
Core Electives		*6*	*Core Electives*		*12*
SPAN3200 - Spanish for Business I OR SPAN4010 - Intro to Literature of Spain OR SPAN4020 - Intro/Lit of Spanish America OR SPAN4030 - Adv Spanish Conversation OR SPAN4110 - Culture/Civilization of Spain OR SPAN4120 - Culture/Civ of Spanish Amer OR SPAN4810 - Special Topics in Spanish OR SPAN4910 - Directed Studies in Spanish		6	SPAN3200 - Spanish for Business I OR SPAN4010 - Intro to Literature of Spain OR SPAN4020 - Intro/Lit of Spanish America OR SPAN4030 - Adv Spanish Conversation OR SPAN4110 - Culture/Civilization of Spain OR SPAN4120 - Culture/Civ of Spanish Amer OR SPAN4810 - Special Topics in Spanish OR SPAN4910 - Directed Studies in Spanish		12
Elective credits		49	Elective credits		49
Total		**120**	**Total**		**120**

* Include all current concentrations in comparison, expanding the table as needed.

12. <u>General and Industrial Engineering</u>

a. Course Change
Change the description of ENGR 1120
From:
Prerequisites: ACT Math score of 27 or above, or MA TH 1720, MATH 1730, MATH 1845, or MATH 1910. Problem definition, algorithm development, flowcharting, and structured programming using a high level language. MATH 1845 or MATH 1910 can be taken concurrently.

TO:
Prerequisites: ACT Math score of 27 or above, or MATH 1720, MATH 1730, MATH 1845, or MA TH 1910. Problem definition, algorithm development, flowcharting, and structured programming using a high-level language. Using a spreadsheet as a computation tool. MA TH 1845 or MA TH 1910 can be taken concurrently.

b. NEW COURSE:
ENGR 1030 - Leaming Strategies
Lec. 1. Credit 1.
Prerequisite: Freshman Standing
The primary goal is to strengthen the student's connection Tennessee Tech University by focusing on the enhancing the skills needed for academic and non-academic success strategies and to foster a commitment to an engineering or STEM related career. It emphasizes critical thinking in the formation of academic habits and introducing students to important behaviors such as problem-solving techniques and useful computational tools.

JUSTIFICATIONS:
Spreadsheets are an important computation tool used in engineering. Due to the implementation of a different high-level programming environment, the programming material can be covered in fewer lectures allowing the addition of other computation options within the course. Course instructors have already begun introducing spreadsheets, during approximately 15% of the course lectures. This should be reflected in the course description.

When a first-year student needs to drop a class that will result in part-time status, this course can be taken to maintain the full-time status for that semester. Thus, the main purpose is to aid the student in developing habits and skills needed to improve their academic success in future semesters.

Financial Impact: None

Effective Date: Fall 2025

c. NEW COURSE:
ENGR 1010 - Engineering: Fundamentals & Computations
Lec. 2. Lab. 3. Credit 3.
Prerequisite: High school Algebra II or equivalent
The course will consist of an introduction to engineering concepts and engineering problem solving techniques. This course introduces engineering as well as engineering careers and disciplines Additionally, this course discusses proper handling of units, problem definition, algorithm development, flowcharting, structured programming using a high-level language, and the use of a spreadsheet as a computational tool. Students cannot receive credit for both ENGR 1010 and the combination of ENGR 1210 and ENGR 1300.

FINANCIAL IMPACT: None.

EFFECTIVE DATE: Fall 2025.

JUSTIFICATIONS:
This course will provide an alternative to taking the combination of both ENGR 1210 and ENGR 1300. It may be used for high school dual-enrollment students.

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

13. <u>Communication and Media</u>

a. Course Change
FROM:
JOUR 4360 Magazine Production and Design, Lec. 3. Credit 3.
Prerequisite: JOUR 2200 is a prerequisite for all other journalism courses. Current trends in magazine production and design.
O:
JOUR 4360 Magazine Production and Design, Lec. 3. Credit 3.
Prerequisite: JOUR 2200 or consent of the instructor. Current trends in magazine production and design.
Justification: We have been giving permission to students from several majors across campus who have not had the prerequisite, as long as there are seats available for our majors. We want the practice reflected in the catalog so students as aware they can request a seat.

Effective: Fall 2025

Financial Impact: NONE

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

14. <u>Sociology and Political Science</u>

a. Course Deletion
Delete POLS 1000 American Government

Justification: At the request of the Registrar's Office. Some time ago the course number was changed to POLS 1030, but for some reason the original number has remained in the system.

Effective Date: Fall 2025

Financial Impact: None

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

15. Nursing

a. Course Name Changes:

Summer #1 (16 credits)	
May Intercession	
NURS 4010 Gerontological Nursing for the 2nd Degree Student (2 credits)	NURS 4010 Gerontological Nursing for the ABSN student (2 credits)
1st Term	
NURS 3260/3261 Health Assessment and Promotion/Health Assessment and Promotion Lab (2/1 credits)	No change
NURS 3270/3271 Fundamentals of Nursing/Fundamentals of Nursing Lab (2/1 credits)	No change
2nd Term	
NURS 3320/3321 Community Health Nursing for the 2nd Degree Student/Community Health Nursing for the 2nd Degree Student: Lab (3/3 credits)	NURS 3320/3321 Community Health Nursing for the ABSN Student/Community Health Nursing for the ABSN Student: Lab (3/3 credits)
Full term	
NURS 3345 Pathophysiology I for the 2nd Degree Student (2 credits)	Pathophysiology I for the ABSN Student (2 credits)
Fall Semester (15 credits)	
NURS 3245 Pharmacology in Nursing I for the 2nd Degree Student (3 credits)	NURS 3245 Pharmacology in Nursing I for the ABSN Student
NURS 3310/3311 Mental Health Nursing for the 2nd Degree Student/Mental Health Nursing for the 2nd Degree Student: Lab (3/2 credits)	NURS 3310/3311 Mental Health Nursing for the ABSN Student/Mental Health Nursing for the ABSN Student: Lab (3/2 credits)

NURS 3340/3341 Medical Surgical Nursing I for the 2nd Degree Student/Medical Surgical Nursing I for 2nd Degree Student: Lab (4/3 credits)	NURS 3340/3341 Medical Surgical Nursing I for the ABSN Student/Medical Surgical Nursing I for the ABSN Student: Lab (4/3 credits)
Spring Semester (15 credits)	
NURS 3440/3441 Medical Surgical Nursing II for the 2nd Degree Student/Medical Surgical Nursing II for the 2nd Degree Student: Lab (4/3 credits)	NURS 3440/3441 Medical Surgical Nursing II for the ABSN Student/Medical Surgical Nursing II for the ABSN Student: Lab (4/3 credits)
NURS 4260 Women's Health, Perinatal Care and Nursing Care of Children (5)	No change
NURS 4345 Pathological Processes II/Pharmacological Concepts II (3 credits)	No change
Summer #2 (14 credits)	
May Intercession	
NURS 4201 Women's Health and Perinatal Nursing for the 2nd Degree Student: Lab (2 credits)	NURS 4201 Women's Health and Perinatal Nursing for the ABSN Student: Lab (2 credits)
1st Term	
NURS 4550 Critical Care Nursing (2 credits)	No change
2nd Term	
NURS 4750 Leadership and Management for the 2nd Degree Student (3 credits)	NURS 4750 Leadership and Management for the ABSN Student (3 credits)
Full Term	
NURS 4600 Lifespan Clinical Immersion (6 credits)	No change
NURS 4460 Preparation for Licensure (1 credit)	No change
Fall or Summer #2 (3 credits)	
NURS 4300 Research in Healthcare (3 credits)	No change

Justification: Enrollment in the ABSN for 2nd Degree students has waned over the past 2 years secondary to financial concerns/constraints of the potential students. These students have difficulty obtaining any financial aid because it is the 2nd Bachelor's degree and students continually cite the cost of housing as a deterrent. Including 1st degree students in this concentration at an accelerated pace will boost enrollment in this concentration and increase the speed that we can graduate nurses to impact the nursing shortage.

Financial Impact: We anticipate a positive impact with increasing enrollment in the ABSN concentration.

Effective: Summer 2025

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

b. INFORMATIONAL ITEM:

The WHSON recommends the following changes to the admission criteria for the ABSN concentration:
Accelerated BN (ABSN) is an established Professional Nursing option designed for the student who wishes to attend full time intensive nursing coursework and expedite graduation. This program has a specialized, limited enrollment with selective criteria for admission.
Requirements for potential applicants to the ABSN NURS level include:

i. Student must be admitted to the University
ii. Student must have completed the following courses prior to the start of Professional Nursing.

First degree students: Completion of all General Education curriculum requirements along with successful completion of the following with a minimum final grade of "C":

- BIOL 2010 Anatomy and Physiology I
- BIOL 2020 Anatomy and Physiology II
- BIOL 3230 Microbiology
- CHEM 1010, 1110 or 1210 General Chemistry

Second degree students: A previous Bachelor's degree and must have completed the following within the past 10 years with a minimum of a final grade of "C":

- BIOL 2010 Anatomy and Physiology I
- BIOL 2020 Anatomy and Physiology II
- BIOL 3230 Microbiology
- CHEM 1010, 1110, or 1210 - General Chemistry
- MA TH 1130 College Algebra or higher math

iii. Student must earn a competitive score on the HESI preadmission exam
iv. In addition to the above requirements, eligibility for admission into the ABSN concentration requires the following:
    a. First degree students: A minimum 3.2 GPA
    b. Second degree students minimum 2.5 cumulative QPA in all university/college coursework. To be competitive for the limited number of spaces in the Professional Nursing program it is recommended that the student attain at least a 3.0 or above GP A. The student's academic record is used in the selection process by the WHSON Admissions and Credits Committee.

The program will not change. However, a change in the name of some of the courses has been made to better reflect the population of students admitted to this concentration. The program of study is listed below with recommended changes in the right-hand column.

Justification: Enrollment in the ABSN for 2nd Degree students has waned over the past 2 years secondary to financial concerns/constraints of the

potential students. These students have difficulty obtaining any financial aid because it is the 2nd Bachelor's degree and students continually cite the cost of housing as a deterrent. Including 1st degree students in this concentration at an accelerated pace will boost enrollment in this concentration and increase the speed that we can graduate nurses to impact the nursing shortage.

Financial Impact: We anticipate a positive impact with increasing enrollment in the ABSN concentration.
Effective: Summer 2025

16. <u>Economics, Finance and Marketing</u>

a. Course Changes
Request to change pre-requisites for ECON 3610 Business Statistics I and FIN 3210 Principles of Financial Management

Economics, Finance & Marketing would like to request that MATH 1530 and MATH 1710 be added as prerequisites to ECON 3610 and that ECON 3610 be added as a prerequisite to FIN 3210.

i. ECON 3610 Business Statistics I
Current Catalog Description:
Prerequisite: MATH 1530 or MATH 1830 or MATH 1845 or MATH 1910 or consent of instructor. Business applications of statistics and probability, with emphasis on critical thinking, statistical inference, statistical dependence, and linear regression.

Proposed Catalog Description:
Prerequisites: MATH 1530 and MATH 1710 or consent of instructor. Business applications of statistics and probability, with emphasis on critical thinking, statistical inference, statistical dependence, and linear regression.

Justification: MATH 1830 is no longer required for the BSBA degree. It was replaced with MATH 1710. This change will update the catalog to match the BSBA degree program requirements.

ii. FIN 3210 Principles of Managerial Finance
Current Catalog Description:
Prerequisites: ECON 2010, ECON 2020, and ACCT 2120 (or ACCT 3720 for non-business majors ONLY). Financial theory and procedures required for the financial decision-making function of business organizations.

Proposed Catalog Description:
Prerequisites: ECON 2010, ECON 2020, and ACCT 2120 (or ACCT 3720 for non-business majors ONLY);
Prerequisite or corequisite: ECON 3610.

Financial theory and procedures required for the financial decision-making function of business organizations.

Justification: The proposed change will ensure that students have completed MA TH 1530, MATH 1710 and have completed or are currently taking ECON 3610 before taking FIN 3210, which requires substantial prior quantitative preparation.

Effective Fall 2025.

Financial Impact: None

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

17. <u>Environmental Studies</u>

a. Course Additions
ESS 4800- Field Based Learning. Credit 1-6.
Course Description: The field-based learning courses allow the student to experience locations remote from Tennessee Tech campus, both domestically and internationally. Living and learning in locations distant from the university campus allow for personal growth and expanding knowledge and skills, increasing group dynamics, and experiencing new locations and cultures.
Prerequisites: Junior Standing or higher

Justification: The School of Environmental Studies has offered a field-based learning course in recent years as a special topics course. Now, we have established field locations in Scotland, Tanzania, Peru, along with domestic locations such as the Rocky Mountains, which merit the creation of a new course and course number as proposed here. Course credit will depend on the length of the trip and the amount of course work expected from the students. A course syllabus is attached.

Financial Impact: Faculty will teach the course as an overload if the course occurs in the Spring or Fall semesters. If the course occurs during the Summer, then the course compensation will follow Summer Semester payment policies. The cost of the course (overload pay) will be absorbed by the School of Environmental Studies budget during the Fall and Spring, and during Summer the enrollment will cover the Summer pay.

Effective Date: May 15, 2025

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

18. <u>Exercise Science – Curriculum Changes</u>

a. Exercise Physiology Curriculum Changes

i. Delete

1. HEC 1030 Introduction to Nutrition 2cr.
   This will no longer be available from Human Ecology
2. EXPW 2150 Human Sexuality 3 cr.
   Can be taken as an elective

ii. Add

1. HEC 2020 Nutrition 3 cr.
   To replace the 2-credit option
2. EXPW 2900 Structural Anatomy 3 cr.

iii. Changes

1. From: BIOL 1010 or BIOL 1113 4 cr.
   To: General Education Natural Science 4 cr.
2. From: BIOL 1020 or BIOL 1123 4 cr.
   To; General Education Natural Science 4 cr.
3. From: EXPW 1021 - Connections to Exercise Science 1 cr.
   TO: EXPW 1021 - Connections to Exercise Science or equivalent 1 cr.
4. From: EXPW 1022 Introduction to Exercise Science 2 cr.
   To: EXPW 1022 – Introduction to Exercise Science or equivalent 2 cr.
5. From: HEC 1030 Introduction to Nutrition 2 cr.
   To: HEC 2020 Nutrition 3 cr.
6. From EXPW 2200 Leadership Development 3 cr.
   To: EXPW 2200 OR EXPW 3200 Leadership
7. From: Elective (Generic) 7 cr.
   To: Elective (Generic) 6 cr.

Justification: These changes provide students with added flexibility in their course selections as well as help limit the need for course substitutions.

Financial Impact: None

Effective Date: Fall 2025

Curriculum Comparison Table

Program: Exercise Science

Proposed change: Exercise Physiology concentration updates

Current or Existing (120) Name of the Concentration: Exercise Physiology			Proposed (120) Name of the Concentration: Exercise Physiology (General)		
Rubric *Title*	*SCH*		*Rubric* *Title*	*SCH*	
Freshman year			Freshman year		
~~BIOL 1010 OR BIOL 1113 Intro to Biol or General Biol I.~~	4		**GENERAL EDUCATION NATURAL SCIENCE.**	4	
ENGL 1010 Composition I	3		ENGL 1010 Composition I	3	
EXPW 1021 CONNECTIONS TO EXERCISE SCIENCE.	1		EXPW 1021 Connections to EXSC **or equivalent**	1	
EXPW 1022 Introduction to Exercise Science	2		EXPW 1022 Intro to EXSC **or equivalent**	2	
~~HEC 1030 Introduction to Nutrition~~	2		**HEC 2020 Nutrition.**	**3**	
Math	3		Math	3	
PHED 1002 Fitness Test	0		PHED 1002 Fitness Test	0	
~~BIOL 1020 OR BIOL 1123~~	4		**GENERAL EDUCATION NATURAL SCIENCE.**	4	
ENGL 1020 Composition II	3		ENGL 1020 Composition II	3	
EXPW 1150 Care and Prevention of Athletic Injuries	3		EXPW 1150 Care and Prevention of Athletic Injuries	3	
Humanities Elective/Fine Arts	3		Humanities/Fine Arts	3	
PSY 1030 Intro to Psychology	3		PSY 1030 Intro to Psychology	3	
Total	31		Total	32	
Sophomore year			Sophomore year		
BIOL 2010 Human A&P I	4		BIOL 2010 Human A&P I	4	
EXPW 2160 Drug Use & Abuse	2		EXPW 2160 Drug Use & Abuse	2	
EXPW 2200 Leadership	3		EXPW 2200 **or EXPW 3200 - Leadership**	3	
HIST 2010 Early United States History	3		HIST 2010 Early United States History	3	
PHED 1002 Fitness Test	0		PHED 1002 Fitness Test	**0**	
Social Behavioral Science Elective	3		Social Behavioral Science Elective	3	
BIOL 2020 Human A&P II	4		BIOL 2020 Human A&P II	4	
ENGL 2130 OR 2235 OR 2330	3		ENGL 2130 OR 2235 OR 2330	3	
EXPW 2430 First Aid, Safety & CPR	2		EXPW 2430 First Aid, Safety & CPR	2	
HIST 2020 Modern United States History	3		HIST 2020 Modern United States History	3	
Humanities Elective/Fine Arts	3		Humanities/Fine Arts	3	
Total	30		Total	30	
Junior year			Junior year		
Comm 2025 Fundamentals of Communication	3		Comm 2025 Fundamentals of Communication	3	
OR PC2500 – Communicating in the Profession			OR PC2500 – Communicating in the Profession		
Elective (Generic)	3		Elective (Generic)	3	
~~EXPW 2150 – Human Sexuality~~	~~3~~		**EXPW 2900 Structural Anatomy**	**3**	
EXPW 3170 Motor Learning	3		EXPW 3170 Motor Learning	3	
EXPW 3410 Lifespan Motor Development	3		EXPW 3410 Lifespan Motor Development	3	
PHED 1002 – Fitness Test	0		PHED 1002 – Fitness Test	0	
Elective (Generic)	4		**Elective (Generic)**	**3**	

EXPW 3032 Exercise Prescription	3	EXPW 3032 Exercise Prescription	3
EXPW 3310 – Professional Prep	1	EXPW 3310 – Professional Prep	1
EXPW 4171 Exercise & Sport Psychology	3	EXPW 4171 Exercise & Sport Psychology	3
EXPW 4420 Kinesiology	3	EXPW 4420 Kinesiology	3
Total	29	Total	28
Senior year		Senior year	
EXPW 3500. Phys Act, Health for Spec. Populations.	3	EXPW 3500. Phys Act, Health for Spec. Populations.	3
EXPW 4032 Training for Performance	3	EXPW 4032 Training for Performance	3
EXPW 4440 Physiology of Exercise	3	EXPW 4440 Physiology of Exercise	3
EXPW 4520 Adapted Exercise and Physical Activity	3	EXPW 4520 Adapted Exercise and Physical Activity	3
EXPW 4730 Assessment & Evaluation in Exercise Science	3	EXPW 4730 Assessment & Evaluation in Exercise	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
EXPW 4042 – Health Promotion	3	EXPW 4042 – Health Promotion	3
EXPW 4442 – Performance/Recover in Sport.	3	EXPW 4442 – Performance/Recover in Sport.	3
EXPW 4760 – Functional Movement	3	EXPW 4760 – Functional Movement	3
EXPW 4830 Field Experience	3	EXPW 4830 Field Experience	3
EXPW 4900 Research Methods	3	EXPW 4900 Research Methods	3
Total	30	Total	30
Total	**120**	**Total**	**120**

b. Curriculum Change – Pre-Physical Therapy
   i. From MATH 1530 Intro to Statistics 3 cr.
      To: Math 1530 Intro to Statistics 3 cr.
      OR MATH 3070 Statistical Methods 3 cr.
      OR MATH 4220 Biostatistics 3 cr.

Justification: These changes provide students with added flexibility in their course selections as well as help limit the need for course substitutions.

Financial Impact: None

Effective Date: Fall 2025

Program: Exercise Science

Proposed change: Pre-PT (updates)

Current/Existing (120)		Proposed (New) 120	
Freshman Year		**Freshman Year- First Semester:**	
EXSC/Pre-PT-Directed Elective	3	EXSC/Pre-OT-Directed Elective	3
ENGL 1010 – English Comp I	3	ENGL 1010 – English Comp I	3
EXPW 1021 – or equivalent	1	EXPW 1021 or equivalent	1
EXPW 1022 –or equivalent	2	EXPW 1022 or equivalent	2
MATH 1710 or MATH 1720	3	MATH 1710 Or MATH 1720	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
SOC 1010 – Intro to Sociology	3	SOC 1010 – Intro to Sociology	3
		Freshman Year – Second Semester:	
ENGL 1020 – English Comp II	3	ENGL 1020 – English Comp II	3
EXPW 1130 – Intro to PT	1	EXPW 1130 – Intro to PT	1
EXPW 1150 – Care/Prevention	3	EXPW 1150 – Care/Prevention	3
MATH 1530 – Intro to Stats.	3	**MATH 1530 or MATH 3070 or BIOL 4220**	**3**
PSY 1030 – Intro to Psychology.	3	PSY 1030 – Intro to Psychology.	3
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Total	31	Total	31
Sophomore Year		**Sophomore Year – First Semester:**	
ENGL 2130 or 2235 or 2330	3	ENGL 2130 or 2235 or 2330	3
HIST 2010	3	HIST 2010	3
EXPW 2430 – First Aid & CPR	2	EXPW 2430 – First Aid & CPR	2
COMM 2025 or PC 2500	3	COMM 2025 or PC 2500	3
EXPW 3170 – Motor Learning.	3	EXPW 3170 – Motor Learning.	3
		Sophomore Year – Second Semester:	
EXSC/Pre-PT Directed Elective	7	EXSC/Pre-PT Directed Elective	7
HIST 2020 – Modern US Hist.	3	HIST 2020 – Modern US Hist.	3
EXSC/Pre-PT Directed Elective	4	EXSC/Pre-PT Directed Elective	4
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
Total	31	Total	31
Junior Year		**Junior Year – First Semester:**	
BIOL 2010 – A&P I	4	BIOL 2010 – A&P I	4
EXSC/Pre-PT Directed Elective	4	EXSC/Pre-PT Directed Elective	4
EXPW 2900 – Structural Anatomy	3	EXPW 2900 – Structural Anatomy	3
EXPW 4171 – Sport Psychology.	3	EXPW 4171 – Sport Psychology.	3
EXSC/Pre-PT Directed Elective.	2	EXSC/Pre-PT Directed Elective.	2
		Junior Year – Second Semester:	
BIOL 2020 – A&P II	4	BIOL 2020 – A&P II	4
EXPW 3032 – Exercise Prescript.	3	EXPW 3032 – Exercise Prescript.	3
EXPW 4440 – Phys of Exercise	3	EXPW 4440 – Phys of Exercise	3
EXPW 4820 – Field Experience	3	EXPW 4820 – Field Experience	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
Total	31	Total	31
Senior Year			
		Senior Year – First Semester:	
EXSC/Pre-OT Directed Elective	5	EXSC/Pre-OT Directed Elective	5
EXPW 4420 – Kinesiology	3	EXPW 4420 – Kinesiology	3
EXPW 3310- Prof Prep	1	EXPW 3310- Prof Prep	1
EXPW 4520 – Adapted Phys Act/Spt.	3	EXPW 4520 – Adapted Phys Act/Spt.	3
EXPW 4730 – Assess & Eval in EXSC.	3	EXPW 4730 – Assess & Eval in EXSC.	3
		Senior Year – Second Semester:	
EXSC/Pre-OT Directed Elective	5	EXSC/Pre-OT Directed Elective	5
EXPW 3550 – Support/Serv/Prs.	3	EXPW 3550 – Support/Serv/Prs.	3
EXPW 4760 – Functional Movement. Or EXPW 4032	3	EXPW 4760 – Functional Movement or EXPW 4032.	3
EXPW 4900 – Research Methods	3	EXPW 4900 – Research Methods	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
Total	26	Total	26

c. Curriculum Changes – Fitness and Wellness
    i. Delete
        1. HEC 1030 – Introduction to Nutrition 2 cr.
           This will no longer be an option from Human Ecology
        2. EXPW 2150 – Human Sexuality 3 cr5
           Can be taken as an elective
    ii. Add
        1. HEC 2020 Nutrition 3 cr.
           To replace the 2 credit option
        2. Electives (generic) 2 cr.
           Adding 2 credits of electives to achieve 120 total credits after removing HEC 1030 and EXPW 2150 from the program
    iii. Other Changes
        1. From: BIOL 1010 or BIOL 1113 4 cr.
           To: General Education Natural Science 4 cr.
        2. From BIOL 1020 or BIOL 1123 4 cr.
           To: General Education Natural Science 4 cr.
        3. From: EXPW 1021 Connections to Exercise Science 1 cr.
           To: EXPW 1021 Connections to Exercise Science or equivalent 1 cr.
        4. From: EXPW 1022 Introduction to Exercise Science 2 cr.
           To: EXPW 1022 Introduction to Exercise Science or equivalent 2 cr.
        5. From: HEC 1030 Intro to Nutrition 2 cr.
           To: HEC 2020 Nutrition 3 cr.
        6. From: EXPW 2200 Leadership Developoment 3 cr.
           To: EXPW 2200 OR EXPW 3200 3 cr.
        7. From: Electives (Generic) 7 cr.
           To: Electives (Generic) 6 cr.

Justification: These changes provide students with added flexibility in their course selections as well as help limit the need for course substitutions.

Financial Impact: None

Effective Date: Fall 2025

Curriculum Comparison Table

Program: Exercise Science

Proposed change: Fitness & Wellness Concentration Updates

Current or Existing (120) Name of the Concentration: Fitness & Wellness		Proposed (120) Name of the Concentration: Fitness & Wellness (General)	
Rubric Title	***SCH***	***Rubric Title***	***SCH***
Freshman year		**Freshman year**	
~~BIOL 1010 OR BIOL 1113 Intro to Biol or General Biol I.~~	4	**GENERAL EDUCATION NATURAL SCIENCE.**	**4**
ENGL 1010 Composition I	3	ENGL 1010 Composition I	3
EXPW 1021 CONNECTIONS TO EXERCISE SCIENCE.	1	EXPW 1021 Connections to EXSC **or equivalent**	1
EXPW 1022 Introduction to Exercise Science	2	EXPW 1022 Intro to EXSC **or equivalent**	2
~~HEC 1030 Introduction to Nutrition~~	2	**HEC 2020 Nutrition.**	**3**
Math	3	Math	3
PHED 1002 Fitness Test	0	PHED 1002 Fitness Test	0
~~BIOL 1020 OR BIOL 1123~~	4	**GENERAL EDUCATION NATURAL SCIENCE.**	**4**
ENGL 1020 Composition II	3	ENGL 1020 Composition II	3
EXPW 1150 Care and Prevention of Athletic Injuries	3	EXPW 1150 Care and Prevention of Athletic Injuries	3
Humanities Elective/Fine Arts	3	Humanities/Fine Arts	3
PSY 1030 Intro to Psychology	3	PSY 1030 Intro to Psychology	3
Total	31	Total	32
Sophomore year		Sophomore year	
BIOL 2010 Human A&P I	4	BIOL 2010 Human A&P I	4
EXPW 2160 Drug Use & Abuse	2	EXPW 2160 Drug Use & Abuse	2
EXPW 2200 Leadership	3	EXPW 2200 **or EXPW 3200 - Leadership**	3
HIST 2010 Early United States History	3	HIST 2010 Early United States History	3
PHED 1002 Fitness Test	0	PHED 1002 Fitness Test	**0**
Social Behavioral Science Elective	3	Social Behavioral Science Elective	3
BIOL 2020 Human A&P II	4	BIOL 2020 Human A&P II	4
ENGL 2130 OR 2235 OR 2330	3	ENGL 2130 OR 2235 OR 2330	3
EXPW 2430 First Aid, Safety & CPR	2	EXPW 2430 First Aid, Safety & CPR	2
HIST 2020 Modern United States History	3	HIST 2020 Modern United States History	3
Humanities Elective/Fine Arts	3	Humanities/Fine Arts	3
Total	30	Total	30
Junior year		Junior year	
Comm 2025 Fundamentals of Communication	3	Comm 2025 Fundamentals of Communication	3
OR PC2500 – Communicating in the Profession		OR PC2500 – Communicating in the Profession	
~~EXPW 2150 – Human Sexuality~~	3	**Elective (Generic)**	**3**
EXPW 2900 Structural Anatomy	3	EXPW 2900 Structural Anatomy	3
EXPW 3170 Motor Learning	3	EXPW 3170 Motor Learning	3
EXPW 3410 Lifespan Motor Development	3	EXPW 3410 Lifespan Motor Development	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
EXPW 3032 Exercise Prescription	3	EXPW 3032 Exercise Prescription	3
EXPW 3310 – Professional Prep	1	EXPW 3310 – Professional Prep	1
EXPW 4171 Exercise & Sport Psychology	3	EXPW 4171 Exercise & Sport Psychology	3
EXPW 4420 Kinesiology	3	EXPW 4420 Kinesiology	3
Elective (Generic)	4	Elective (Generic)	3
Total	29	Total	28
Senior year		Senior year	
BMGT 3510 Mgmt/Organizational Behavior	3	BMGT 3510 Mgmt/Organizational Behavior	3
EXPW 4032 Training for Performance	3	EXPW 4032 Training for Performance	3
EXPW 4440 Physiology of Exercise	3	EXPW 4440 Physiology of Exercise	3
EXPW 4520 Adapted Exercise and Physical Activity	3	EXPW 4520 Adapted Exercise and Physical Activity	3
EXPW 4730 Assessment & Evaluation in Exercise Science	3	EXPW 4730 Assessment & Evaluation in Exercise	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
EXPW 4042 – Health Promotion	3	EXPW 4042 – Health Promotion	3
EXPW 4760 – Functional Movement	3	EXPW 4760 – Functional Movement	3
EXPW 4810 Field Experience	3	EXPW 4810 Field Experience	3
EXPW 4900 Research Methods	3	EXPW 4900 Research Methods	3
Elective (Generic)	3	Elective (Generic)	3
Total	30	Total	30
Total	**120**	**Total**	**120**

d. Curriculum Changes – Pre-Occupational Therapy
    i. Delete: HEC 1030 Introduction to Nutrition 2 cr.
    This will no longer be taught by Human Ecology
    ii. EXSC/Pre-OT Directed Elective 1 cr.
    iii. Changes:
        1. From: MATH 1710 Pre-Calculus Algebra 3 cr.
        OR MATH 1720 Pre-Calculus Trigonometry 3cr.
        To: Directed Elective 3 cr.
        2. From EXPW 1021 Connections to Exercise Science 1 cr.
        To: EXPW 1021 Connections to Exercise Science or equivalent 2 cr.
        3. From: EXPW 1022 Introduction to Exercise Science 2 cr.
        To: EXPW 1022 Introduction to Exercise Science or equivalent 2 cr.
        4. From: HEC 1030 Intro to Nutrition 2 cr. or HEC 2020 Nutrition 3 cr.
        To: HEC 2020 Nutrition 3 cr.

Justification: These changes provide students with added flexibility in their course selections as well as help limit the need for course substitutions.

Financial Impact: None

Effective Date: Fall 2025

Program: Exercise Science

Proposed change: Pre-OT (updates)

Current/Existing (120)		Proposed (New) 120	
Freshman Year		Freshman Year	
EXSC/Pre-OT-Directed Elective	4	EXSC/Pre-OT-Directed Elective	4
ENGL 1010 – English Comp I	3	ENGL 1010 – English Comp I	3
EXPW 1021 – Connections to EXSC	1	EXPW 1021 or equivalent	1
EXPW 1022 – Intro to EXSC	2	EXPW 1022 or equivalent	2
MATH 1530 – Intro to Stats	3	MATH 1530 – Intro to Stats	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
PSY 1030 – Intro to Psychology	3	PSY 1030 – Intro to Psychology	3
ENGL 1020 – English Comp II	3	ENGL 1020 – English Comp II	3
EXPW 1120 – Intro to OT	1	EXPW 1120 – Intro to OT	1
EXPW 1150 - Care/Prevention	3	EXPW 1150 - Care/Prevention	3
EXPW 2130 or EXPW 2015	3	EXPW 2130 or EXPW 2015	3
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
Math 1710 or Math 1720	3	Directed Elective	3
Total	32	Total	32
Sophomore Year		Sophomore Year	
BIOL 2010 – A&P I	4	BIOL 2010 – A&P I	4
ENGL 2130 or 2235 or 2330	3	ENGL 2130 or 2235 or 2330	3
HEC 1030 or HEC 2020	2 or 3	HEC 2020	3
HIST 2010	3	HIST 2010	3
SOC 1010	3	SOC 1010	3
Elective (if HEC 1030 is taken)	1	~~Elective (if HEC 1030 is taken)~~	~~1~~
BIOL 2020 – A&P II	4	BIOL 2020 – A&P II	4
COMM 2025 or PC 2500	3	COMM 2025 or PC 2500	3
EXSC/Pre-OT Directed Elective	1	EXSC/Pre-OT Directed Elective	2
EXPW 3170 – Motor Learning.	3	EXPW 3170 – Motor Learning.	3
EXPW3310 – Professional Prep.	1	EXPW3310 – Professional Prep.	1
HIST 2020 – Modern US Hist.	3	HIST 2020 – Modern US Hist.	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
Total	31	Total	32
Junior Year		Junior Year	
EXSC/Pre-OT Directed Elective	7	EXSC/Pre-Ot Directed Elective	7
EXPW 2430 – First Aid & CPR	2	EXPW 2430 – First Aid & CPR	2
EXPW 2900 – Structural Anatomy	3	EXPW 2900 – Structural Anatomy	3
Humanities and/or Fine Arts	3	Humanities and/or Fine Arts	3
EXSC/Pre-OT Directed Elective.	7	EXSC/Pre-OT Directed Elective.	7
EXPW 3032 – Exercise Prescript.	3	EXPW 3032 – Exercise Prescript.	3
EXPW 4440 – Phys of Exercise	3	EXPW 4440 – Phys of Exercise	3
EXPW 4820 – Field Experience	3	EXPW 4820 – Field Experience	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
Total	31	Total	31
Senior Year			
EXSC/Pre-OT Directed Elective	1	~~EXSC/Pre-OT Directed Elective~~	~~1~~
EXPW 4171 – Exercise & Sport Psy.	3	EXPW 4171 – Exercise & Sport Psy.	3
EXPW 4420 – Kinesiology	3	EXPW 4420 – Kinesiology	3
EXPW 4520 – Adapted Phys Act/Spt.	3	EXPW 4520 – Adapted Phys Act/Spt.	3
EXPW 4730 – Assess & Eval in EXSC.	3	EXPW 4730 – Assess & Eval in EXSC.	3
EXSC/Pre-OT Directed Elective	7	EXSC/Pre-OT Directed Elective	7
EXPW 3550 – Support/Serv/Prs.	3	EXPW 3550 – Support/Serv/Prs.	3
EXPW 4900 – Research Methods	3	EXPW 4900 – Research Methods	3
PHED 1002 – Fitness Test	0	PHED 1002 – Fitness Test	0
Total	26	Total	25

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

19. <u>Decision Sciences and Management</u>

a. Course Change
    i. DS 3520 - Operations, Logistics, and Supply Chain Management Remove the pre-requisite of ECON 3610 - Business Statistics I

    Justification: Based on the current content of DS 3510, the faculty determined that ECON 3610 no longer needs to be pre-requisite. This will allow students to take DS 3520 sooner.

    Financial Impact: None

    Effective Date: Fall 2025
b. Curriculum Change – for Business and Information Technology major
    i. Add required courses
        1. DS Elective of three credit hours
    ii. Remove required courses
        1. DS 3865 Business Database Management II

    Justification: The content taught in DS 3865 will be taught in DS 3860 - Business Database Management I. This will allow students to take more current topics as DS elective.

    Financial Impact: None

    Effective Date: Fall 2025

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

c. Concentration Name Change
    i. Current Title: Operations, Logistics and Supply Chain Management
    ii. Proposed Title: Operation and Supply Chain Management

    Justification: Based on an analysis on the industry's use of the term, logistics is considered a component of supply chain management. Therefore, we request that the title of the concentration be updated.

    Financial Impact: None

    Effective Date: Fall 2025

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

20. <u>Biology – Concentration Changes</u>

a. We propose that the following changes be made to the three concentrations in WFS:

i. Change the physical sciences requirement in the first semester of the Freshman year in all three WFS concentrations (WFSC, WFSF, and WFSW).
FROM:
CHEM 1010 (Introductory Chemistry I) or CHEM 1110 (General Chemistry I)
TO:
CHEM 1010 or CHEM 1110 or GEOG 2100 (Weather and Climate Systems) or GEOL 1045 (Earth, Environment, Resources, and Society) or PHYS 2010 Algebra-based Physics I.

Justification: The physical sciences certification requirements for the Wildlife Society are nine hours of physical sciences, represented by at least two different disciplines. This change will provide more options to WFS majors, while still retaining certification requirements.

ii.

iii. Change the physical sciences requirement in the second semester of the Freshman year in all three WFS concentrations (WFSC, WFSF, and WFSW).
FROM:
CHEM 1020 (Introductory Chemistry II) or CHEM 1120 (or General Chemistry 11)
TO:
AGRN 2400 (Introduction to Soils) or CHEM 1010 or CHEM 1020 or CHEM 1110
or CHEM 1120 or PHYS 2010 or PHYS 2020 (Algebra-based Physics II).

Justification: The physical sciences certification requirements for the Wildlife Society are nine hours of physical sciences, represented by at least two different disciplines. This change will provide more options to WFS majors, while still retaining certification requirements.

iv. Add BIOL 3010 (Principles of Evolution) to the list of directed electives for all three WFS concentrations (WFSC, WFSF, and WFSW).

Justification: Evolution is a foundational principle discussed in most of our classes, and this course will provide an organized synopsis of the topic that will be useful to WFS majors.

v. Remove AGRN 2000 (Soil and the Environment) and AGRN 3000 (Soils) from the list of directed electives for all three WFS concentrations. These courses are no longer being taught, and AGRN 2400 will be a physical science course option.

vi. Remove GEOG 3200 (Water Resources) from the list of directed electives for the WFSF concentration because it is now a required class.
vii. Move WFS 4810 (Ichthyology) from the first semester Senior year to the second semester Junior year in the WFSF concentration because it is now taught during Spring semester, having previously been taught during Fall semester.
viii. Change the number of credit hours associated with the following:
    1. WFSC: Freshman 1st semester, Senior 2nd semester, directed electives
    2. WFSF: Junior 2nd semester, Senior 1st and 2nd semesters, directed electives
    3. WFSW: Junior 2nd semester, Senior 2nd semester, directed electives

Justification: Items D through G are not curricular changes; they are associated with corrections and clarity in the catalog.

Degree Plan - Wildlife & Fisheries Science, Fisheries Science Concentration, B.S.
Degree Map Narrative
-
Freshman Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15
Requirements
BIOL1113 - General Biology I (0 - 4 cr)
CHEM1010 - Introductory Chemistry I (0 - 4 cr)
OR
CHEM1110 - General Chemistry I (0 - 4 cr)
OR
GEOG2100 - Weather and Climate Systems (0 - 4 cr)
OR
GEOL1045 - Earth, Environment, Resources, and Society (0 - 4 cr)
OR
PHYS2010 - Algebra-based Physics I (0 - 4 cr)
Elective (1 cr.) (Generic) (1 cr)
ENGL1010 - English Composition I (3 cr)
MATH1710 - Pre-Calculus Algebra (3 cr)
Second Semester
Total Degree Map Credits
120

Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
14
Requirements

- BIOL1123 - General Biology II (0 - 4 cr)
- AGRN2400 - Introduction to Soils (3 cr)

OR

CHEM1010 - Introductory Chemistry I (0 - 4 cr)

OR

CHEM1020 - Introductory Chemistry II (0 - 4 cr)

OR

CHEM1110 - General Chemistry I (0 - 4 cr)

OR

CHEM1120 - General Chemistry II (0 - 4 cr)

OR

PHYS2010 - Algebra-based Physics I (0 - 4 cr)

OR

PHYS2020 - Algebra-based Physics II (0 - 4 cr)

- ENGL1020 - English Composition II (3 cr)
- MATH1530 - Introductory Statistics (3 cr)

OR

MATH1830 - Applied Calculus (3 cr)

Sophomore Year

First Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
17
Requirements

- BIOL2310 - General Botany (0 - 4 cr)
- ENGL2130 - Topics in American Literature (3 cr)

OR

ENGL2235 - Topics in British Literature (3 cr)

OR

ENGL2330 - Topics in World Literature (3 cr)

- GEOL1040 - Physical Geology (0 - 4 cr)
- HIST2010 - Early United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)

Second Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year

Fall Term 2024 -
Actual Credits
16
Requirements

- COMM2025 - Fundamentals of Communication (3 cr)
  OR
  PC2500 - Communicating in the Profess (3 cr)
- HIST2020 - Modern United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)
- WFS3130 - General Ecology (0 - 4 cr)

Junior Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
13 - 14
Requirements

- BIOL3100 - Genetics (3 cr)
  OR
  BIOL3810 - General Genetics (0 - 4 cr)
- MATH3070 - Statistical Methods I (3 cr)
  OR
  WFS4220 - Biostatistics (3 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)
- WFS4710 - Fisheries Management (0 - 4 cr)

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
~~14~~ 15
Requirements

- GEOG3200 - Water Resources (3 cr)
- BIOL3920 - Biological Comm Skills (3 cr)
- WFS/Fisheries Science Directed Electives (Course Set) (~~6~~ 3 cr)
- WFS4740 - Wildlife Principles (2 cr)
- WFS4810 - Ichthyology (0 - 4 cr)

Senior Year
First Semester
Total Degree Map Credits
120

Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15 ~~17~~

Requirements

- BIOL4610 - Invertebrate Zoology (0 - 3 cr)
- WFS/Fisheries Science Directed Electives (Course Set) (~~3~~ ~~5~~ 6 cr)
- WFS4500 - National Wildlife Policy (3 cr)
- ~~WFS4810 - Ichthyology (0 - 4 cr)~~
- WFS4840 - Limnology (0 - 3 cr)

Second Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
~~16~~ ~~13~~ 15 - 14

Requirements

- BIOL4780 - Phycology (0 - 3 cr)
- Electives (~~6~~ ~~9~~ 7-8 cr.) (Generic) (~~9~~ ~~6~~ 8 – 7 cr)
- WFS4760 - Fish Culture (0 - 4 cr)
- NOTE: Three courses are required to complete the Science Directed Electives (~~9~~ ~~11~~ 9-10 credits) - ~~AGRN 3000 - Soils Credit: 4.~~ BIOL 3010 – Principles of Evolution Credit: 3. BIOL 3240 – Field Botany Credit 3. BIOL 3530 - Animal Physiology Credit: 3. BIOL 4330 (5330) - Plant Ecology Credit: 3. ESS 4100 – National Parks and Protected Lands Credit 3. ESS 4110 – Human Dimensions of Natural Resources Credit 3. ~~GEOG 3200 - Water Resources Credit: 3.~~ GEOG 4510 (5510) - Theory of GIS I Credit: 31. or WFS 4870 (5870) - GIS for Wildlife and Fisheries Credit: 31. WFS 3500 - Wildlife Law Enforcement Credit: 3. WFS 4230 (5230) - Animal Behavior Credit: 3. WFS 4630 (5630) - Ornithology Credit: 3. WFS 4640 (5640) - Waterfowl Ecology and Management Credit: 3. WFS 4650 (5650) - Marine Biology Credit: 4. WFS 4730 (5730) - Conservation Biology Credit: 3. WFS 4770 (5770) - Nongame Species Management Credit: 3. WFS 4820 (5820) - Mammalogy Credit: 3. WFS 4830 (5830) - Herpetology Credit: 3. Note: 1 Only one of these two classes will count toward this requirement. (Generic)

Degree Plan - Wildlife & Fisheries Science, Conservation Biology Concentration, B.S.
Degree Map Narrative
-
Freshman Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
~~14~~ 15
Requirements

- BIOL1113 - General Biology I (0 - 4 cr)
- CHEM1010 - Introductory Chemistry I (0 - 4 cr)

OR
CHEM1110 - General Chemistry I (0 - 4 cr)
OR
GEOG2100 - Weather and Climate Systems (0 - 4 cr)
OR
GEOL1045 - Earth, Environment, Resources, and Society (0 - 4 cr)
OR
PHYS2010 - Algebra-based Physics I (0 - 4 cr)

- Elective (~~0~~ 1 cr.) (Generic) (~~0~~ 1 cr)
- ENGL1010 - English Composition I (3 cr)
- MATH1710 - Pre-Calculus Algebra (3 cr)

Second Semester
Total Degree Map Credits
120

Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
14
Requirements

- BIOL1123 - General Biology II (0 - 4 cr)
- AGRN2400 - Introduction to Soils (3 cr)

OR

CHEM1010 - Introductory Chemistry I (0 - 4 cr)

OR

CHEM1020 - Introductory Chemistry II (0 - 4 cr)

OR

CHEM1110 - General Chemistry I (0 - 4 cr)

OR

CHEM1120 - General Chemistry II (0 - 4 cr)

OR

PHYS2010 - Algebra-based Physics I (0 - 4 cr)

OR

PHYS2020 - Algebra-based Physics II (0 - 4 cr)

- ENGL1020 - English Composition II (3 cr)
- MATH1530 - Introductory Statistics (3 cr)

OR

MATH1830 - Applied Calculus (3 cr)

Sophomore Year

First Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
17
Requirements

- BIOL2310 - General Botany (0 - 4 cr)
- ENGL2130 - Topics in American Literature (3 cr)

OR

ENGL2235 - Topics in British Literature (3 cr)

OR

ENGL2330 - Topics in World Literature (3 cr)

- GEOL1040 - Physical Geology (0 - 4 cr)
- HIST2010 - Early United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)

Second Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year

Fall Term 2024 -
Actual Credits
16
Requirements

- COMM2025 - Fundamentals of Communication (3 cr)
  OR
  PC2500 - Communicating in the Profess (3 cr)
- HIST2020 - Modern United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)
- WFS3130 - General Ecology (0 - 4 cr)

Junior Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15
Requirements

- BIOL3330 - Entomology (0 - 3 cr)
  OR
  BIOL4610 - Invertebrate Zoology (0 - 3 cr)
- BIOL3920 - Biological Comm Skills (3 cr)
- BIOL4330 - Plant Ecology (0 - 3 cr)
  OR
  BIOL4340 - Plant-Animal Interactions (0 - 3 cr)
- MATH3070 - Statistical Methods I (3 cr)
  OR
  WFS4220 - Biostatistics (3 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
14 - 12
Requirements

- BIOL3240 - Field Botany (0 - 3 cr)
- BIOL3810 - General Genetics (0 - 4 cr)
  OR
  BIOL3100 - Genetics (3 cr)
- WFS/Conservation Biology Directed Electives (Course Set) (3 cr)
- WFS4810 - Ichthyology (0 - 4 cr)

OR

WFS4830 - Herpetology (0 - 3 cr)

Senior Year

First Semester

Total Degree Map Credits

120

Degree Map Effective Catalog Year

Fall Term 2024 -

Actual Credits

15

Requirements

- WFS/Conservation Biology Directed Electives (Course Set) (3 cr)
- WFS4500 - National Wildlife Policy (3 cr)
- WFS4630 - Ornithology (0 - 3 cr)

  OR

  WFS4820 - Mammalogy (0 - 3 cr)
- WFS4700 - Habitat Management (0 - 3 cr)
- WFS4711 - Fisheries Management (3 cr)

Second Semester

Total Degree Map Credits

120

Degree Map Effective Catalog Year

Fall Term 2024 -

Actual Credits

~~15~~ 14 - 16

Requirements

- Electives (~~7-8~~ 6-8) (Generic) (~~7~~ 6 - 8 cr)
- WFS/Conservation Biology Directed Electives (Course Set) (3 cr)
- WFS4730 - Conservation Biology (3 cr)
- WFS4740 - Wildlife Principles (2 cr)
- Select three of the following courses (~~9-11~~ 9-10 hours): AGHT 3450 - Dendrology Credit: 3. ~~AGRN 2000 - Soil and the Environment or AGRN 3000 - Soils Credit: 4.~~ BIOL 3010 – Principles of Evolution Credit: 3. BIOL 3530 - Animal Physiology Credit: 3. BIOL 4320 (5320) - Plant Physiology Credit: 3. BIOL 4780 (5780) - Phycology Credit: 3. BIOL 4840 (5840) - Limnology Credit:3. ESS 4100 - National Parks and Protected Public Lands. ESS 4110 - Human Dimensions of Natural Resources. GEOG 4510 (5510) - Theory of GIS I Credit: 31. or WFS 4870 (5870) - GIS for Wildlife and Fisheries Credit: 31. WFS 4650 (5650) - Marine Biology Credit: 4. WFS 4770 (5770) - Nongame Species Management Credit: 3. WFS 4800 - Conservation Techniques Credit: 3. Note: 1 Only one of these two classes will count toward this requirement. (Generic)

Degree Plan - Wildlife & Fisheries Science, Wildlife Science Concentration, B.S.
Degree Map Narrative
-
Freshman Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15
Requirements

- BIOL1113 - General Biology I (0 - 4 cr)
- CHEM1010 - Introductory Chemistry I (0 - 4 cr)

OR
CHEM1110 - General Chemistry I (0 - 4 cr)
OR
GEOG2100 - Weather and Climate Systems (0 - 4 cr)
OR
GEOL1045 - Earth, Environment, Resources, and Society (0 - 4 cr)
OR
PHYS2010 - Algebra-based Physics I (0 - 4 cr)

- Elective (1 cr.) (Generic) (1 cr)
- ENGL1010 - English Composition I (3 cr)
- MATH1710 - Pre-Calculus Algebra (3 cr)

Second Semester
Total Degree Map Credits
120

Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
14
Requirements

- BIOL1123 - General Biology II (0 - 4 cr)
- AGRN2400 - Introduction to Soils (3 cr)

OR

CHEM1010 - Introductory Chemistry I (0 - 4 cr)

OR

CHEM1020 - Introductory Chemistry II (0 - 4 cr)

OR

CHEM1110 - General Chemistry I (0 - 4 cr)

OR

CHEM1120 - General Chemistry II (0 - 4 cr)

OR

PHYS2010 - Algebra-based Physics I (0 - 4 cr)

OR

PHYS2020 - Algebra-based Physics II (0 - 4 cr)

- ENGL1020 - English Composition II (3 cr)
- MATH1530 - Introductory Statistics (3 cr)

OR

MATH1830 - Applied Calculus (3 cr)

Sophomore Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
17
Requirements

- BIOL2310 - General Botany (0 - 4 cr)
- ENGL2130 - Topics in American Literature (3 cr)

OR

ENGL2235 - Topics in British Literature (3 cr)

OR

ENGL2330 - Topics in World Literature (3 cr)

- GEOL1040 - Physical Geology (0 - 4 cr)
- HIST2010 - Early United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year

Fall Term 2024 -
Actual Credits
16
Requirements

- COMM2025 - Fundamentals of Communication (3 cr)
  OR
  PC2500 - Communicating in the Profess (3 cr)
- HIST2020 - Modern United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)
- WFS3130 - General Ecology (0 - 4 cr)

Junior Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15 - 17
Requirements

- AGHT3450 - Dendrology (0 - 3 cr)
- BIOL3100 - Genetics (3 cr)
  OR
  BIOL3810 - General Genetics (0 - 4 cr)
- WFS/Wildlife Science Directed Electives (Course Set) (3 - 4 cr)
  Course Requirement Group (Free Text): 3 -4 credits
- MATH3070 - Statistical Methods I (3 cr)
  OR
  WFS4220 - Biostatistics (3 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
~~18~~ ~~17~~ 17
Requirements

- BIOL3240 - Field Botany (0 - 3 cr)
- WFS/Wildlife Science Directed Electives (Course Set) ~~(4~~ ~~3~~ 3 cr)
  Course Requirement Group (Free Text): ~~3~~ ~~4~~ 3 credits required
- WFS3500 - Wildlife Law Enforcement (3 cr)
- WFS4660 - Wild Bird Ecology (0 - 3 cr)
- WFS4740 - Wildlife Principles (2 cr)
- WFS4830 - Herpetology (0 - 3 cr)

Senior Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15
Requirements

- BIOL3920 - Biological Comm Skills (3 cr)
- WFS4500 - National Wildlife Policy (3 cr)
- WFS4670 - Wild Mammal Ecology (0 - 3 cr)
- WFS4700 - Habitat Management (0 - 3 cr)
- WFS4711 - Fisheries Management (3 cr)

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
~~10 – 9~~ 11 - 9
Requirements

- Electives (3 - 5 cr.) (Generic) (~~4 – 3~~ 5 – 3 cr)
  Course Requirement Group (Free Text): ~~3 – 4~~ 3 - 5 credits
- WFS4790 - Wildlife Techniques (0 - 6 cr)
  Course Requirement Group (Free Text): 6 credits
- Wildlife Science Concentration Directed Electives Select two of the following courses (6-7 hours): ~~AGRN 2000 - Soil and the Environment Credit: 3.2 or AGRN 3000 - Soils Credit: 4.~~ BIOL 3010 – Principles of Evolution Credit 3. BIOL 3530 - Animal Physiology Credit: 3. BIOL 4330 (5330) - Plant Ecology Credit: 3. ESS 4100 - National Parks and Protected Public Lands Credit: 3. ESS 4110 - Human Dimensions of Natural Resources Credit: 3. GEOG 4510 (5510) - Theory of GIS I Credit: 32. or WFS 4870 (5870) - GIS for Wildlife and Fisheries Credit: 32. WFS 3550 - Wildlife Damage Management Credit: 3. WFS 4640 (5640) - Waterfowl Ecology and Management Credit: 3. WFS 4730 (5730) - Conservation Biology Credit: 3. WFS 4770 (5770) - Nongame Species Management Credit: 3. WFS 4810 (5810) - Ichthyology Credit: 3 4. (Generic)
- Note: 1 WFS 4790 is a field-based class taught only during summer. 2 Only one of these two classes will count toward this requirement. (Generic)

b. Program Changes - We propose that the following changes be made to two of the concentrations in BIOL:
   i. Add BIOL 4190 (Molecular Signal Integration) as a directed elective to the Cellular and Molecular Concentration (BIBI) in the first semester of the senior year.
   Justification: This course was approved at an earlier curriculum meeting this semester, and it will serve as an excellent directed elective for some majors in this concentration.
   ii. Change the order in which required math classes are taken in the Marine Biology concentration (MAR) in the first semester of the freshman year, second semester of the freshman year, first semester of the sophomore year, and second semester of the senior year. This change also involves changing the semesters in which general electives are taken.

Justification: The math requirements have not been modified for this concentration, but the old degree path had them listed in an order in which none of our majors take them, including taking a prerequisite after the course that required the prerequisite. This modification, as well as the remaining modifications in this memo are not actual curricular changes, but changes to the degree paths to improve clarity.

iii. Specify the list of directed electives to be taken in the marine Biology concentration (MAR) in the second semester of the senior year.
Choose one of the following courses (3 credit hours):
- BIOL 4610 (5610)- Invertebrate Zoology
- BIOL 4780 (5780)-Phycology
- BIOL 4810 (5810)-Ichthyology
- BIOL 4840 (5840) - Limnology

Justification: The list of directed electives inadvertently had not been included in the footnote for this concentration in the old degree path, and this approach to listing the courses is much easier to follow than a footnote.

iv. Modify the footnote in the degree path of the Marine Biology concentration by removing the reference to two courses and specifying 10-12 hours must be taken at the Gulf Coast Research Laboratory (GCRL).
Justification: Courses previously taught at the GCRL were always 5 or 6 credit hour courses taught during two summer terms similar to our system at Tech. Recently, the GCRL began offering courses of 3 credit hours taught during shortened terms. Although our majors can take these courses, they must take three courses to meet the 10-credit hour minimum that we require. Removing the two-course statement clarifies this requirement.

v. Remove the footnote concerning the math requirement in both the BIBI and MAR degree paths because the actual requirements are not included in the appropriate semesters of the degree paths.

Financial Impact: None

Effective Date: Fall 2025

Degree Plan - Biology, Marine Biology Concentration, B.S
Degree Map Narrative
-
Freshman Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15
Requirements

- BIOL1113 - General Biology I (0 - 4 cr)
- CHEM1110 - General Chemistry I (0 - 4 cr)
- Elective (1 cr.) (Generic) (1 cr)
- ENGL1010 - English Composition I (3 cr)
- MATH1710 - Pre-Calculus Algebra (3 cr)
- ~~MATH (Generic) (3 cr)~~

~~Course Requirement Group (Free Text): 3 credits~~

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
17
Requirements

- BIOL1123 - General Biology II (0 - 4 cr)
- CHEM1120 - General Chemistry II (0 - 4 cr)
- ENGL1020 - English Composition II (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)

- MATH1530 - Introductory Statistics (3 cr)
  OR
  MATH1830 - Applied Calculus (3 cr)
- ~~MATH1710 - Pre-Calculus Algebra (3 cr)~~

Sophomore Year

First Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
17

Requirements

- BIOL2310 - General Botany (0 - 4 cr)
- Electives (3 cr.) (Generic) 3 cr)
- GEOL1040 - Physical Geology (0 - 4 cr)
- HIST2010 - Early United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)
- ~~MATH1530 - Introductory Statistics (3 cr)~~
  ~~**OR**~~
  ~~MATH1830 - Applied Calculus (3 cr)~~

Second Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
16

Requirements

- BIOL3130 - General Ecology (0 - 4 cr)
- COMM2025 - Fundamentals of Communication (3 cr)
  OR
  PC2500 - Communicating in the Profess (3 cr)
- ENGL2130 - Topics in American Literature (3 cr)
  OR
  ENGL2235 - Topics in British Literature (3 cr)
  OR
  ENGL2330 - Topics in World Literature (3 cr)
- HIST2020 - Modern United States History (3 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)

Junior Year

First Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year

Fall Term 2024 -
Actual Credits
14
Requirements

- BIOL3200 - General Microbiology (0 - 4 cr)
  OR
  BIOL3230 - Health Science Microbiology (0 - 4 cr)
- CHEM3005 - Elementary Organic Chemistry (0 - 4 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)
- Electives (3 cr.) (Generic) (3 cr)

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15
Requirements

- BIOL3140 - Cellular Biology (0 - 4 cr)
- BIOL3810 - General Genetics (0 - 4 cr)
- BIOL3920 - Biological Comm Skills (3 cr)
- BIOL4650 - Marine Biology (0 - 4 cr)

Senior Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
10 - 12
Requirements

- BIOL/Marine Biology Directed Electives (Generic) (10 - 12 cr)
  Course Requirement Group (Free Text): 10 - 12 credits

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
16 - 14
Requirements

- ~~BIOL/Marine Biology Directed Electives (Course Set) (3 cr)~~
  ~~Course Requirement Group (Free Text): 3 credits~~
- BIOL4220 - Biostatistics (3 cr)
  OR

MATH3070 - Statistical Methods I (3 cr)

- BIOL4610 - Invertebrate Zoology (0 - 3 cr)
  OR
  BIOL4780 - Phycology (0 - 3 cr)
  OR
  BIOL4810 - Ichthyology (0 - 4 cr)
  OR
  BIOL4840 - Limnology (0 - 3 cr)
- Electives (~~11 – 13~~ 8 – 10 cr) (Generic) (~~13 – 11~~ 10 – 8 cr)
- 1 ~~Three math/statistics courses are required, one each from the following pairs of courses: MATH 1710 , either MATH 1530 or MATH 1830 , and either MATH 3070 or BIOL 4220 (5220) /WFS 4220 (5220) . 2~~ Any ~~two~~ courses from the GCRL offerings, totaling 10-12 credit hours (requires one summer at the GCRL; coursework from other marine stations may be substituted with the approval of the advisor). (Generic)

Degree Plan - Biology, Cellular & Molecular Biology Concentration, B.S.
Degree Map Narrative
-
Freshman Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15
Requirements

- BIOL1113 - General Biology I (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits
- CHEM1110 - General Chemistry I (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits
- Elective (1 cr.) (Generic) (1 cr)
- ENGL1010 - English Composition I (3 cr)
- MATH1710 - Pre-Calculus Algebra (3 cr)

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
18
Requirements

- BIOL1123 - General Biology II (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits
- BIOL2310 - General Botany (0 - 4 cr)

Course Requirement Group (Free Text): 4 credits

- CHEM1120 - General Chemistry II (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits
- ENGL1020 - English Composition II (3 cr)
- MATH1530 - Introductory Statistics (3 cr)
  OR
  MATH1830 - Applied Calculus (3 cr)

Sophomore Year

First Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
13

Requirements

- ENGL2130 - Topics in American Literature (3 cr)
  OR
  ENGL2235 - Topics in British Literature (3 cr)
  OR
  ENGL2330 - Topics in World Literature (3 cr)
- HIST2010 - Early United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)
- PHYS2010 - Algebra-based Physics I (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits

Second Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
16

Requirements

- HIST2020 - Modern United States History (3 cr)
- Humanities and/or Fine Arts (Course Set) (3 cr)
- MATH3070 - Statistical Methods I (3 cr)
  OR
  BIOL4220 - Biostatistics (3 cr)
- PC2500 - Communicating in the Profess (3 cr)
  OR
  COMM2025 - Fundamentals of Communication (3 cr)
- PHYS2020 - Algebra-based Physics II (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits

Junior Year

First Semester

Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
15
Requirements

- BIOL3120 - General Ecology (3 cr)
  OR
  BIOL3130 - General Ecology (0 - 4 cr)
  Course Requirement Group (Free Text): 3 or 4 credits
- BIOL3140 - Cellular Biology (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits
- BIOL3200 - General Microbiology (0 - 4 cr)
  OR
  BIOL3230 - Health Science Microbiology (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits
- CHEM3010 - Organic Chemistry I (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
14
Requirements

- BIOL3810 - General Genetics (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits
- BIOL3920 - Biological Comm Skills (3 cr)
- CHEM3020 - Organic Chemistry II (0 - 4 cr)
  Course Requirement Group (Free Text): 4 credits
- Social/Behavioral Sciences (Course Set) (3 cr)

Senior Year
First Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
16
Requirements

- BIOL2010 - Human Anatomy & Physiology I (0 - 4 cr)
  OR
  BIOL4320 - Plant Physiology (0 - 3 cr)

OR
BIOL3530 - Animal Physiology (3 cr)

- BIOL4040 - Immunology (3 cr)

OR
BIOL4060 - Hormones & Chem Comm (3 cr)
OR
BIOL4190 - Molecular Signal Integration (3 cr)
OR
BIOL4850 - Applied Microbiology (0 - 3 cr)
Course Requirement Group (Free Text): 3 credits

- CHEM4610 - General Biochemistry I (3 cr)
- Electives (3 cr.) (Generic) (3 cr)
- Social/Behavioral Sciences (Course Set) (3 cr)

Second Semester
Total Degree Map Credits
120
Degree Map Effective Catalog Year
Fall Term 2024 -
Actual Credits
13
Requirements

- BIOL4150 - Molecular Genetics (3 cr)
- BIOL4160 - Genetic Engineering Lab (2 cr)
- CHEM4620 - General Biochemistry II (3 cr)
- CHEM4650 - General Biochemistry Lab (2 cr)
- Electives (3 cr.) (Generic) (3 cr)
- ~~1 Three math/statistics courses are required, one each from the following pairs of courses: MATH 1710 , either MATH 1530 or MATH 1830 , and either MATH 3070 or BIOL 4220 (5220) /WFS 4220 (5220) . (Generic)~~

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

21. Music

a. Course Changes

i. Change title of MUS 1009 to Trumpet Ensemble (1 cr.)
The School of Music would like to change the title of MUS 1009 from Trumpet Choir to Trumpet Ensemble.

Justification: Changing the course title from "Choir" to "Ensemble" more accurately represents this musical ensemble and is the most common name for this type of ensemble in the field of music.

Effective: Fall 2025

ii. Change title of MUS 1650 to Musical Theatre Movement I (1 cr.)
The School of Music would like to change the title of MUS 1650 from Ballet I to Musical Theatre Movement I.

Justification: Changing the course title from "Ballet I" to "Musical Theatre Movement I" allows the School of Music to hire instructors with a more varied background. The current title requires the instructor to possess a master's degree in dance, which has proven very difficult to find in our region. Many MFA and MA graduates in Theatre and Musical Theatre have extensive dance experience and possess the necessary skills and knowledge to teach this course.
In addition, this title change allows the instructor to cover dance techniques and topics that may fall outside the scope of Ballet. There are many other dance styles such as jazz, contemporary, and hip-hop, that are necessary for musical theatre majors.

Effective: Fall 2025

Financial Impact: This name change will potentially reduce the cost of offering this course, due to the increased accessibility of qualified instructors.

iii. Change the title of MUS 1660 to Musical Theatre Movement II (1 cr.)
The School of Music would like to change the title of MUS 1660 from Ballet II to Musical Theatre Movement II.

Justification: Changing the course title from "Ballet II" to "Musical Theatre Movement II" allows the School of Music to hire instructors with a more varied background. The current title requires the instructor to possess a master's degree in dance, which has proven very difficult to find in our region. Many MF A and MA graduates in Theatre and Musical Theatre have extensive dance experience and possess the necessary skills and knowledge to teach this course.
In addition, this title change allows the instructor to cover dance techniques and topics that may fall outside the scope of Ballet. There are many other dance styles such as jazz, contemporary, and hip-hop, that are necessary for musical theatre majors.

Effective: Fall 2025

Financial Impact: This name change will potentially reduce the cost of offering this course, due to the increased accessibility of qualified instructors.

iv. Change the title of MUS 1670 to Musical Theatre Movement III (1 cr.)
The School of Music would like to change the title of MUS 1670 from Tap I to Musical Theatre Movement III.

Justification: Changing the course title from "Tap I" to "Musical Theatre Movement III" allows the School of Music to hire instructors with a more varied background. The current title requires the instructor to possess a

master's degree in dance, which has proven very difficult to find in our region. Many MFA and MA graduates in Theatre and Musical Theatre have extensive dance experience and possess the necessary skills and knowledge to teach this course.
In addition, this title change allows the instructor to cover dance techniques and topics that may fall outside the scope of Tap. There are many other dance styles such as jazz, contemporary, and hip-hop, that are necessary for musical theatre majors.

Effective: Fall 2025

Financial Impact: This name change will potentially reduce the cost of offering this course, due to the. increased accessibility of qualified instructors.

v. Change title of MUS 1680 to Musical Theatre Movement IV (1 cr.)
The School of Music would like to change the title of MUS 1680 from Tap II to Musical Theatre Movement IV.

Justification: Changing the course title from "Tap II" to "Musical Theatre Movement IV" allows the School of Music to hire instructors with a more varied background. The current title requires the instructor to possess a master's degree in dance, which has proven very difficult to find in our region. Many MFA and MA graduates in Theatre and Musical Theatre have extensive dance experience and possess the necessary skills and knowledge to teach this course.
In addition, this title change allows the instructor to cover dance techniques and topics that may fall outside the scope of Tap. There are many other dance styles such as jazz, contemporary, and hip-hop, that are necessary for musical theatre majors.

Effective Date: Fall 2025

Financial Impact: This name change will potentially reduce the cost of offering this course, due to the increased accessibility of qualified instructors.

vi. Add a 0-credit option for MUED 4850 Workshop in Music Ed.

Justification: When seniors enroll in the 1-credit option of MUED 4850 Workshop in Music Ed, they need a student ensemble to direct/conduct. Currently, this ensemble is comprised of sophomore and junior music education students playing secondary instruments, mimicking a middle school level ensemble. Creating this 0- credit option allows the instructor to enforce attendance for sophomores and juniors.

Effective Date: Fall 2025

Financial Impact: None

vii. Change the course description of MUED 3811 Practicum in Music Education to include "A minimum grade of B is required to meet degree requirements."

Justification: Upper-level MUED courses require a B or better to meet degree requirements. This was accidentally excluded when the course was created.

Effective Date: Fall 2025

Financial Impact: None

viii. Change the course description of MUED 4850 Workshop in Music Ed to include “A minimum grade of B is required to meet degree requirements.

Justification: Upper-level MUED courses require a B or better to meet degree requirements. This was accidentally excluded when the course was created.

Effective: Fall 2025

Financial Impact: None

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

22. <u>Accounting</u>

a. Course Change: Add prerequisite for ACCT 2120 - Principles of Accounting II
From:
ACCT 2120 - Principles of Accounting II
Fundamental principles and procedures of financial accounting, including capital structure and the statement of cash flows, and managerial accounting, including cost structure, budgeting, strategic decision-making, and time-value of money.

To:
ACCT 2120 - Principles of Accounting II
Prerequisite: ACCT 2110. Fundamental principles and procedures of financial accounting, including capital structure and the statement of cash flows, and managerial accounting, including cost structure, budgeting, strategic decision-making, and time-value of money.

Justification: ACCT 2120 Principles of Accounting II is the second course in a two-course introduction to accounting sequence and build on the concepts taught in ACCT 21120 Principles of Accounting I.

Financial Impact: No additional financial impact is anticipated.

Effective Date: Fall 2025

b. Course Change: Change course description for ACCT 3190 - Financial Acct/Reporting III
From:
ACCT 3190 - Financial Acct/Reporting III
Continuation of ACCT 3180. In-depth treatment of accounting and reporting for leases, income taxes, pensions, shareholder equity, EPS, and Accounting changes and error corrections, and the statement of cash flows. Emphasis is placed on development of technical accounting skills including basic theory, valuation, and measurement. Accounting majors must earn a C or better to graduate.

To:
ACCT 3190 - Financial Acct/Reporting III
Prerequisite: ACCT 3180 with a grade of C or better. Continuation of ACCT 3180. In-depth treatment of accounting and reporting for leases, income taxes, pensions, shareholder equity, EPS, and Accounting changes and error corrections, and the statement of cash flows. Emphasis is placed on development of technical accounting skills including basic theory, valuation, and measurement. Accounting majors must earn a C or better to graduate.

Justification: ACCT 3190 Financial Acct/Reporting III is the third course in a three-course financial accounting sequence and already has ACCT 3180 as a prerequisite in Eagle Online. This change will adjust the course description to reflect the current prerequisite and create clarity.

Financial Impact: No additional financial impact is anticipated.

Effective Date: Fall 2025

Financial Impact: None

Effective Date: Fall 2025

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

23. <u>Interdisciplinary Studies</u>

a. Course Additions:

i. LIST 1443,
ii. LIST 1444
iii. LIST 1445,
iv. LIST 1446,
v. LIST 1447,
vi. LIST 1448,
vii. LIST 1449

For all 7 courses - Workshop Lec 1, Credit 1
Course Description: Workshop developed around a central theme. Workshops may be repeated with a different topic.
Prerequisites: None.

Justification: The SoIS currently offers one-hour workshops each semester with various applied themes. We are currently limited to 4000 level workshops. This addition allows us to expand our offerings at the lower-division level.

Effective Date: Summer 2025

Financial Impact: No additional resources are needed for this request.

viii. RELS 4100 – Introduction to Koine Greek Lec 3. Credit 3
Course Description: The purpose of this course is to introduce students to Koine Greek language, the language of the New Testament Bible.
Prerequisites: None

Justification: This course has been successfully offered three times as a special topics course.

Effective Date: Summer 2025

Financial Impact: No additional resources are needed for this request.

ix. IC 1020 Connections to Interdisciplinary Computing
The purpose of this course is to introduce Interdisciplinary Computing students to the university experience. Students will engage in meaningful academic and non-academic activities to explore the social, educational, and career opportunities available on campus and in the local community. Activities emphasize critical thinking in the formation of academic and social goals and support groups and in self-management and study skills. Introduces communication and teamwork skills.
Prerequisites: None

Justification: This course is part of the proposed Interdisciplinary Computing major.

Effective Date: Fall 2025

Financial Impact: None

x. IC 1200 Introduction to Interdisciplinary Computing Lec 3. Cr. 3
This course introduces the field of Interdisciplinary Computing. Topics include computing as a creative activity, abstraction, data and information, the Internet, the global impacts of computing, applications of computing in various fields, interdisciplinary thinking, and creative problem solving.
Prerequisites: None

Justification: This course is part of the proposed Interdisciplinary Computing major
Effective Date: Fall 2025

Financial Impact: No additional resources are needed for this request.

b. Course Deletions
   i. LIST 2010: Introduction to Religious Studies Lec. 3. Credit 3
   Justification: This course has been replaced by RELS 2010 Intro to Religious Studies.

c. Curriculum Changes: Change in the number of upper division (3-4000 level) credits required for the B.S. in Interdisciplinary Studies from 45 hours to 36 hours.

Justification: TTU requires a minimum of 36 credits at the 3-4000 level for the baccalaureate degree. The Interdisciplinary Studies major currently requires a minimum of 45 credits at the
3-4000. The change brings the School of Interdisciplinary Studies requirement into agreement with the University requirement.

Financial Impact: No additional resources are needed for this request.

Effective Date: Summer 2025

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

24. <u>Other Such Matters – Election of UCC Chair for 2025-2026</u>

a. Melinda Anderson and Christy Killman were members of the Chair Appointment Sub-Committee. Dr. Anderson and Dr. Killman solicited Chair nominations from the Committee and received nominations to re-appoint Dr. Jeremy Wendt.

Dr. Killman motioned that Dr. Wendt be re-appointed and Dr. Wendt was re-appointed Chair of the University Curriculum Committee by a unanimous vote.

With no other matters and no further discussion at 4:17 p.m., Dr. Jeremy Wendt proposed that the meeting be adjourned.

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