

**University Curriculum Committee
April 4, 2024, Meeting Minutes**

The University Curriculum Committee met on **Thursday, April 4, at 3:00 p.m. via Zoom Meeting.**

Members Present:

Michael Allen	Melinda Anderson	Curtis Armstrong	Julie Galloway
Julie Baker	Rita Barnes	Indranil Bhattacharya	Scott Christen
Brittany Copley	Kent Dollar	Brandi Fletcher	Steve Frye
Gerald Gannod	Michael Gotcher	Kim Hanna	Steven Hayslette
Collin Hill	Karen Lykins	Sharon Holderman	Sharon Huo
Barbara Jared	Christy Killman	Jeannette Luna	Lori Maxwell
Ben Mohr	Kashaina Nocum, student	Linda Null	Thomas Payne
Richard Rand	Mohan Rao	Jeff Roberts	Allan Mills
Robby Sanders	Martin Sheehan	Matthew Smith	Dennis Tennant
Jeremy Wendt	Chris Wilson	Kimberly Winkle	Lisa Zagumny
Darron Smith	Fred Vondra	Braxton Westbrook, student	Kumar Yelamarthi

Members Absent:

Sean Alley	James Baier	Jeff Boles	Mary Cottrell, student
Chance Hale, student	Michael Hoane	Hayden Mattingly	Stephen Robinson
Jennifer Shank	Benjamin Sweeney	Frankie Wolford, student	

Official Representative(s):

Paula Engelhardt for Stephen Robinson	Alma Nunez for Sean Alley		

Guest(s):

Ismail Fidan	Bruce Greene	Allen Mullis	Angie Clark
Mary McCaskey	Autumn McDaniel		

Outline of Proceedings:

01	UCC	Approval of Agenda
02	UCC	Approval of February 22, 2024, minutes
03a	Civil & Environmental Engineering	1 Curriculum Change
03b	Civil & Environmental Engineering	1 Curriculum Change
03c	Civil & Environmental Engineering	2 Course Additions, 2 Course Changes
04a	Curriculum & Instruction	1 Concentration Name Change - PreK-3 **
04b	Curriculum & Instruction	1 Concentration Name Change - Birth-K **
04c	Curriculum & Instruction	1 Curriculum Change
04d	Curriculum & Instruction	1 Curriculum Change
05a	Biology	1 Course Change BIO/WFS 4810
05b	Biology	1 Course Addition
05c	Biology	1 Curriculum Change

05d	Biology	2 Curriculum Changes
06a	Sociology & Political Science	4 course changes, 7 course additions, 17 course deletions, 3 curriculum changes
06b	Sociology & Political Science	1 minor change, 1 curriculum change
07a	Mechanical Engineering	1 Curriculum Change with Name Change **
07b	Mechanical Engineering	11 Course Deletions
07c	Mechanical Engineering	3 Course Additions
07d	Mechanical Engineering	1 Course Change
07e	Mechanical Engineering	2 Course Additions, 1 Course Change
08a	Exercise Science	6 Course Additions
08b	Exercise Science	2 Course Additions
08c	Exercise Science	60 Course Changes
08d	Exercise Science	1 New Concentration **
08e	Exercise Science	1 Course Change
08f	Exercise Science	1 Concentration Change - Pre-AT
08g	Exercise Science	1 Concentration Change - Pre-PA
08h	Exercise Science	1 Concentration Change - Pre - PT
08i	Exercise Science	1 Concentration Change - Sports Admin
08j	Exercise Science	1 Concentration Change - PE Licensure
09	Earth Sciences	1 New Concentration **
10	Electrical Engineering	1 Course Deletion, 5 Course Changes, 1 Curriculum Change
11a	Agriculture	1 Curriculum Change - Pre-Vet
11b	Agriculture	1 Curriculum Change - Ag Ed
11c	Agriculture	1 Course Addition, 1 Curriculum Change - Ag Comm
12a	Manufacturing and Engineering Tech	1 Course Addition
12b	Manufacturing and Engineering Tech	1 New Concentration **
13a	Music	2 Course Changes
13b	Music	1 Course Change
13c	Music	1 Curriculum Change - Instrumental/General Music K-12 AND Vocal/General Music K-12
13d	Music	1 Curriculum Change - Music Ed, Instrumental/General Music AND Music Performance-Instrumental
14a	Foreign Languages	1 Curriculum Change - German Option 1
14b	Foreign Languages	1 Curriculum Change - German Option 2
14c	Foreign Languages	1 Curriculum Change - French Option 1
14d	Foreign Languages	1 Curriculum Change - French Option 2
14e	Foreign Languages	1 Curriculum Change - Spanish Option 1
14f	Foreign Languages	1 Curriculum Change - Spanish Option 2
14g	Foreign Languages	1 Minor Change
15	Nursing	16 Course Changes
16a	General & Basic Engineering	1 New Course

16b	General & Basic Engineering	1 Minor Addition
17a-i	Professional Studies	New Courses
17j	Professional Studies	1 New Concentration Desktop Publishing **
17k	Professional Studies	1 New Concentration Public Safety **
18	Art, Craft and Design	1 Course Change, 1 Curriculum Change
19a	Economics, Finance, and Marketing	1 Curriculum Change
19b	Economics, Finance, and Marketing	1 New Minor
20	Selection of UCC Chair	
21	Other such Matters	
		** Academic Council Approval Required & THEC Notification

Proceedings:

Confirming that a quorum was present, Dr. Jeremy Wendt, Chair of the Committee, called the meeting to order at 3:04 p.m. via Zoon.

1. Approval of Agenda

Motion to Approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

2. Approval of Minutes, February 22, 2024

Motion to approve: Jule Baker

Second: Lisa Zagumny

Vote: Motion carried

3. Civil and Environmental Engineering

A. Curriculum Change

GEOL 2500/2600 is being removed from the concentration as it no longer serves as a prerequisite to upper-division GEOL courses. The list of GEOL Electives is also being revised based on mutual discussion.

GEOL 3210 is being moved to “major core” course as all CEE students are required to complete (i.e., GEOL 1040 is removed as an option for students in concentration); as such, as additional GEOL Elective is added. A table of existing and revised GEOL Electives is given after the concentration comparison table.

BS in Civil Engineering (no concentration)			BS in Civil Engineering: Geological Engineering concentration (EXISTING)			BS in Civil Engineering: Geological Engineering concentration (REVISED)		
<i>Rubric</i>	<i>Title</i>	<i>SCH</i>	<i>Rubric</i>	<i>Title</i>	<i>SCH</i>	<i>Rubric</i>	<i>Title</i>	<i>SCH</i>
General Education		36 (42)	General Education		36 (42)	General Education		36 (42)
<i>Not listed for brevity</i>			<i>Not listed for brevity</i>			<i>Not listed for brevity</i>		
Major Core (Required)		73	Major Core (Required)		64	Major Core (Required)		67
MATH 1920		4	MATH 1920		4	MATH 1920		4
MATH 2110		4	MATH 2110		4	MATH 2110		4
MATH 2120		3	MATH 2120		3	MATH 2120		3
MATH 2010, 3810, 4210, or 4510		3						
CHEM 1120 or PHYS 2120		4	CHEM 1120 or PHYS 2120		4	CHEM 1120 or PHYS 2120		4
ENGR 1110		2	ENGR 1110		2	ENGR 1110		2
CEE 2110		3	CEE 2110		3	CEE 2110		3
CEE 3600 (3020)		3	CEE 3600 (3020)		3	CEE 3600 (3020)		3
CEE 3030		3	CEE 3030		3	CEE 3030		3
CEE 3110		3	CEE 3110		3	CEE 3110		3
CEE 3320		3	CEE 3320		3	CEE 3320		3
CEE 3413		3	CEE 3413		3	CEE 3413		3
CEE 3420		3	CEE 3420		3	CEE 3420		3
CEE 3500		3	CEE 3500		3	CEE 3500		3
CEE 3610		3	CEE 3610		3	CEE 3610		3
CEE 3710		2	CEE 3710		2	CEE 3710		2
CEE 3720 or MATH 3470		2	CEE 3720 or MATH 3470		2	CEE 3720 or MATH 3470		2
CEE 4310		3	CEE 4310 or CEE 4320		3	CEE 4310 or CEE 4320		3
CEE 4320		3						
CEE 4800		3	CEE 4800		3	CEE 4800		3
CEE 4920		1	CEE 4920		1	CEE 4920		1
CEE 4940		0	CEE 4940		0	CEE 4940		0
CEE 4950		3	CEE 4950		3	CEE 4950		3
GEOL 3210		3				GEOL 3210		3
ME 2330		3	ME 2330		3	ME 2330		3
ME 3720 or CEE 3410		3	ME 3720 or CEE 3410		3	ME 3720 or CEE 3410		3
Concentration		0	Concentration		19 (min. 18)	Concentration		19 (min. 18)
N/A			CEE 3040		1	CEE 3040		1
			CEE 4810		3	CEE 4810 or CEE 4820		3
			GEOL 1040 or GEOL 3210		3			
			GEOL 2500		3			
			GEOL Electives		9 (min)	GEOL Electives		15 (min)
Electives		19	Electives		9	Electives		6
Approved CEE Electives		9	Approved CEE Elective		6	Approved CEE Elective		3
Approved CEE Sequences		6						
Approved CEE Lab Elective		1						
Approved CEE Lab Elective		1	CEE 3120 or CEE 3430		1	CEE 3120 or CEE 3430		1
Technical Elective		2	Technical Elective		2	Technical Elective		2
Total		128	Total		128	Total		128

Existing GEOL Electives	(min 9 credits required)	Revised GEOL Electives	(min 15 credits required)
GEOL 3110 Principles of Mineralogy and Petrology (revised to GEOL 4120)	4	GEOL 3120 Mineralogy	4
GEOL 3120 Mineralogy	4	GEOL 3230 Structural Geology	4
GEOL 3200 Water Resources	3	GEOL 3310 Planetary Geoscience	3
GEOL 3230 Structural Geology	4	GEOL 4110 Sedimentation and Stratigraphy	4
GEOL 3750 Stable Isotope Geochemistry	4	GEOL 4120 Igneous/Metamorphic Petrology	4
Any 4000-level GEOL course	3-4	GEOL 4150 Geomorphology	4
		GEOL 4210 Advanced Historical Geology	3
		GEOL 4300 Environmental Aqueous Geochemistry	3
		GEOL 4711 Hydrogeology	4

Justification:

Due to the removal/revision of GEOL 2500/2600, the Department of Civil and Environmental Engineering, in collaboration with the Department of Earth Sciences, is requesting revision to the BSCE - Geological Engineering concentration.

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

B. Curriculum Change

BSCE Curriculum Change – Modify “CEE Sequence” listing:

- Add new Construction Engineering and Management “Sequence”
- Revise course listings based on new course offerings

Revise Footnote 5:

5

~~Approved CEE Sequences:~~

- | | |
|---|---|
| • CEE 4130 (5130), CEE 4160 (5160), CEE 4190 (5190) | • Structural Mechanics |
| • CEE 4130 (5130), CEE 4350 (5350), CEE 4360 (5360), CEE 4370 (5370), CEE 4380 (5380), CEE 4810 (5810) | • Structural Engineering |
| • CEE 4410 (5410), CEE 4420 (5420), CEE 4430 (5430), CEE 4440 (5440), CEE 4450 (5450) | • Environmental Engineering |
| • CEE 4600 (5600), CEE 4610 (5610), CEE 4630 (5630), CEE 4640 (5640), CEE 4660 (5660) | • Transportation Engineering |

5 Approved CEE Sequence Courses:

Construction Engineering and Management:	CEE 4510 (ENGR 4510), CEE 4520, CEE 4525, CEE 4530, CEE 4535, CEE 4540, CEE 4550, CEE 4560
Environmental Engineering and Water Resources:	CEE 4410 (5410), CEE 4420 (5420), CEE 4430 (5430), CEE 4440 (5440), CEE 4450 (5450), CEE 4460 (5460), CEE 4490
Structural and Geotechnical Engineering:	CEE 4340, CEE 4350 (5350), CEE 4360 (5360), CEE 4370 (5370), CEE 4380 (5380), CEE 4390 (5390), CEE 4550, CEE 4810 (5810), CEE 4820 (5820)
Structural Mechanics: (5190)	CEE 4130 (5130), CEE 4170 (5170), CEE 4190
Transportation Engineering	CEE 4610 (5610), CEE 4630 (5630), CEE 4640 (5640), CEE 4660 (5660)

Justification:

The primary motivating factor for possible revisions to the CEE Sequence structure is due to prior ABET comments/discussions. For the past three review cycles, the program has been consistently, and sometimes harshly, criticized for being in potential violation of Civil Engineering program criteria with respect to “at least four technical areas,” as related to Structural Mechanics. These criticisms largely stem from how the department has defined each area, not that we were actually lacking in compliance. In all actuality, we have at least seven areas represented, but only four CEE Sequence areas.

- ABET program criteria states: “analyze and solve problems in at least four technical areas appropriate to civil engineering”
- ASCE Commentary of ABET Program Criteria states: “Note there is no requirement for a minimum number of credit hours or courses in each of the four technical areas, and there is no requirement that all graduates of a given program take courses in the same four areas.”

Modifying the Sequence structure to expand the departmental defined areas should ensure no ABET program criteria concerns moving forward with respect to the four technical areas.

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

C. 2 Course Changes, 2 Course Additions

i. Course Change:

FROM:

CEE 4460 (5460) - Geospatial Modeling and Analysis in Engineering
Lee. 3. Credit. 3.

Prerequisite: CEE 3020 and 3420. GIS & spatial data models; projections and coordinate systems; maps, data entry, editing & output; basic spatial analysis; GPS& GNSS; aerial & satellite images; terrain analysis; raster analysis; and spatial estimation.

TO:

CEE 4460 (5460) - Geospatial Modeling and Analysis in Engineering
Lee. 3. Credit. 3.

Prerequisite: CE:E: 3020 CEE 3600 and 3420. GIS & spatial data models; projections and coordinate systems; maps, data entry, editing & output; basic spatial analysis; GPS& GNSS; aerial & satellite images; terrain analysis; raster analysis; and spatial estimation.

Justification:

CEE 3020 was previously renumbered to CEE 3600 and the prerequisites were not updated accordingly at the time.

Effective Date: Fall 2024

ii. Course Change

FROM:

CEE 4810 (5810) Foundation Engineering. Lee. 3. Credit 3. Prerequisite: CEE 4800.
Soil mechanics

(emphasis on stress and shear strength), bearing capacity, magnitude and time-rate of consolidation, geotechnical design of shallow and deep foundations, lateral earth pressure, and geotechnical aspects of retaining wall design.

TO:

CEE 4810 (5810) Foundation Engineering. Lee. 3. Credit 3. Prerequisite: CEE 4800.
Soil mechanics

(emphasis on stress and shear strength), bearing capacity, magnitude and time-rate of consolidation, geotechnical design of shallow and deep foundations, lateral earth pressure, and geotechnical aspects of retaining wall design.

Justification:

The major change is the removal of lateral earth pressure and retaining wall design from the course. After teaching CEE 4810 for six years, it has become apparent that the course content was too broad. The proposed change will allow the design

of shallow and deep foundations to be covered in greater detail. The removed content will be moved to a new course.

Effective Date: Fall 2024

iii. Course Additions:

a. CEE 4390 (5390) - Bridge Design II

Lec. 3. Credit. 3.

Prerequisite: CEE 4380.

Steel plate girder design; prestressed concrete girder design; bridge substructure design including multi-post piers, spread footings, point bearing piles, and friction piles.

Justification:

It is not possible to comprehensively cover all aspects of even a simple bridge design in a single semester. In the current course (CEE 4380) students learn both theoretical and practical aspects of all bridge elements, both superstructure and substructure. Exposure to bridge design software in the current course is intentionally very limited. Students need to be able to make many decisions before even beginning to model a bridge in modern software. The current course is focused on these initial steps in the design process. Students wishing to enter bridge design as a career need additional, expanded exposure to design software. This is one of the primary goals of a second course. Students in the proposed second course will learn to model bridges in Simon and Open Bridge software, and will be able to interpret the results of those programs with the tools they have learned in 4380.

b. CEE 4820 (5820) - Retaining Walls and Excavations

Lec. 3. Credit 3.

Prerequisite: CEE 4800.

Soil mechanics (emphasis on stress and shear strength), lateral earth pressure, excavation systems and anchorage, mechanically stabilized earth walls, geotechnical design of retaining walls and excavation support.

Justification:

The addition of CEE 4820 corresponds to the proposed change to CEE 4810. The addition of this course will allow more in-depth investigation of lateral earth pressure, retaining wall design, and excavation support systems. This course will be attractive to undergraduate and graduate students in structural and geotechnical engineering.

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

4. Curriculum and Instruction

A. Concentration Name Change

From:

Early Childhood/Special Education

To:

PreK-3

Note: This memo revision is due to both an error in the Course Dog form for submission and the THEC inventory. No changes were requested to this concentration name since it was originally changed effective Fall 2015. See additional documentation provided. This memo has been revised to show current THEC name for this program and the changes the department is requesting. Also, resubmitting this memo due to it being pulled from UCC without communication with department. Correct Course Dog form was not available to use when originally submitted (submitted on Curriculum Change form). Correct form is now available and will be used.

B. Concentration Name Change

From:

Integrated Birth-K Concentration

To:

Birth-K

Justification: These concentration name changes will simplify and accurately reflect our current Tennessee licensure pathways and align them with our other programs. It is not necessary to include the dual licensure or integrated wording in the concentration name.

Financial Impact: None

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

C. Curriculum Change

Multidisciplinary Studies, Generalist, B.S.

Note: Previous change requests were submitted to the 2/22/2024 UCC for this program. These are additional changes.

- i. Freshman Year Second Semester

From:
Math 1420. Geometry Concepts for Teachers (credit 3) OR
Mathematics (Gen Ed)² (credit 3)

To:
Electives (credit 3)

ii. Sophomore Year Second Semester

From:
PSY 2210. Educational Psychology (credit 3) **OR**
Any 2000-3000 level PSY course (credit 3)

To:
Electives (credit 3)

iii. Junior Year First Semester

From:
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 3)

To:
General Electives (credit 6)

iv. Senior Year First Semester

From:
Any three different areas to total 9 hours: Any 3000/4000 level COMM
Any 3000/4000 level ENGL
Any 3000/4000 level HIST
Any 3000/4000 level LIST
Any 3000/4000 level MUS or ART
Any 3000/4000 level PHIL
Any 3000/4000 level PSY
Any 3000/4000 level SOC or CJ
Any 3000/4000 level THEA

To:
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

v. Senior Year Second Semester

From:

Any three different areas to total 9 hours: Any 3000/4000 level COMM
Any 3000/4000 level ENGL
Any 3000/4000 level HIST
Any 3000/4000 level LIST
Any 3000/4000 level MUS or ART
Any 3000/4000 level PHIL
Any 3000/4000 level PSY
Any 3000/4000 level SOC or CJ
Any 3000/4000 level THEA

To:

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

vi. Notes Section

From:

Any University approved General Education Natural Sciences
Any University approved General Education Mathematics
Any University approved General Education Social/Behavioral Science
Any University approved General Education Humanities and/or Fine Arts
Select Education Electives from: CUED, ECSP, ELED, ESOL, ESLP, EXPW, FOED,
MUED, PSY, SEED, SPED, or SVCL

To:

Any University approved General Education Natural Sciences

Any University approved General Education Mathematics
Any University approved General Education Social/Behavioral Science
Any University approved General Education Humanities and/or Fine Arts
Select Education Electives from: CSED, CUED, ECSP, ELED, ESOL, ESLP, EXPW, FOED,
PSY, SEED, SPED, or SVCL
Overall, the program must include at least 36 hours of upper division.

Justification: This will help minimize substitutions and allow for increased course offerings, especially online options.

Financial Impact: None

Effective Date: Fall 2024

D. Curriculum Changes

- i. Multidisciplinary Studies, Middle School English, 6-8 Concentration, B.S. Note: Previous change requests were submitted to the 2/22/2024 UCC for this program. These are additional changes.
 - a. Junior Year Second Semester
From:
READ 3314. Literacy for Middle School (credit 3)
To:
Upper Division Elective (credit 3)
- ii. Multidisciplinary Studies, Middle School Math, 6-8 Concentration, B.S. Note: Previous change requests were submitted to the 2/22/2024 UCC for this program. These are additional changes.
 - a. Junior Year Second Semester
From:
READ 3314. Literacy for Middle School (credit 3)
To:
Upper Division Elective (credit 3)
- iii. Multidisciplinary Studies, Middle School Science, 6-8 Concentration, B.S. Note: Previous change requests were submitted to the 2/22/2024 UCC for this program. These are additional changes.
 - a. Junior Year Second Semester
From:
READ 3314. Literacy for Middle School (credit 3)
To:
Upper Division Elective (credit 3)
- iv. Multidisciplinary Studies, Middle School Social Studies, 6-8 Concentration, B.S. Note: Previous change requests were submitted to the 2/22/2024 UCC for this program. These are additional changes.
 - a. Junior Year Second Semester
From:
READ 3314. Literacy for Middle School (credit 3)
To:

Upper Division Elective (credit 3)

Justification:

As state and CAEP standards have changed, the State Board of Education updated and refined testing requirements for Middle School majors. With the removal of the TRE exam, faculty have re-evaluated coursework and built in advisor-guided electives to better meet students' needs for content specific coursework (such as history content courses, computer science education add-on courses, or ESL add-on courses). This change will enable middle school majors to add licensure specific coursework in areas of high-demand.

Financial Impact: None

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

5. Biology

A. Course Change

i. Course change

Change the number of lecture hours from 2 to 3 and the number of credit hours from 3 to 4 for BIOL/WFS 4810 (Ichthyology).

FROM: Lee. 2. Lab. 3. Cr. 3.

TO: Lee. 3. Lab. 3. Cr. 4.

Justification: Based on student interests and feedback, the current instructor has determined that an additional lecture hour will enable more time to be spent discussing marine fish biology and ecology, and that the amount of work associated with the class justifies an increase in credit hours from 3 to 4.

Effective Date: Fall Semester 2024

B. Course Addition

i. Course additions - Add BIOL 4210/5210 (Biological Systems Modeling) to the list of courses taught in the Department of Biology.

Justification: Biological Systems Modeling is a very popular, current tool used to evaluate ecological relationships and processes in a wide diversity of biological systems. One of our recent hires has expertise in this technique and received an EDGE Creative Inquiry grant to develop this course. The course was taught previously as a Special Topics class, and it received very favorable reviews from the students who took it. Consequently, we believe the course will be a valuable addition to our course offerings. We may add it to one or more of our concentrations in the Biology degree in the future, but we are only requesting the course addition at this time.

Effective Date: Fall Semester 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

C. Curriculum Change to Fisheries Science (WFSF) WFS concentration:

- i. Remove BIOL 3240 (field botany) as a required course because of its limited focus on aquatic plants.
- ii. In place of BIOL 3240, GEOG 3200 (Water Resources) will be required in the concentration because the course content is more applicable to WFSF

- students.
- iii. Add ESS 4100 (National Parks and Protected Public Lands) and ESS 4110 (Human Dimensions of Natural Resources) to the list of directed electives in the WFSF concentration to provide more flexibility.
 - iv. Add BIUOL 3240 (Field Botany) to the list of directed electives in the WFSF concentration because of its removal as a required course and to maintain flexibility.
 - v. Remove GEOG 3200 (Water Resources) from the list of directed electives in the WFSF concentration because of its incorporation as a required course.
 - vi. Change the order in which some classes are taken because of changes in semesters which they are taught.

Effective Date: Fall Semester 2024

- D. Curriculum Changes (due to changes associated with BIOL/WFS 4810 change in credit)
- i. Program Change – Biology B.S., Environmental Biology Concentration
Senior Year, Second Semester – change the catalog listing from BIOL 4810 – Ichthyology from (3 cr.) to (4 cr.) and change Electives from (3 cr.) (Generic) to Electives (2-3 cr.) (Generic)
 - ii. Program Change – Wildlife and Fisheries Science B.S., Conservation Biology Concentration
Freshman Year, First Semester – Change Elective (1 cr.) (Generic) to Elective (0-1 cr.) (Generic)
Junior Year, Second Semester – Change the catalog listing from BIOL 4810 – Ichthyology from (3 cr.) to 4cr.)

Justification: BIOL/WFS 4810 was recently approved to change from a 3-hour course to a 4-hour course. This memo provides information needed to modify the catalog to comply with this change and to remove one hour of general elective credit from each of the concentrations in which the course is included.

Effective Date: Fall Semester 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

6. Sociology and Political Science

A. COURSE CHANGES:

i. POLS 4930 Cyberterrorism **TO:** POLS 3140 Cyberterrorism. (To be cross listed with, CJ 3140, SW 3140 and SOC 3140. See below: II.F.)

ii. **COURSE CHANGE:** CJ 4960 Cyberlaw **TO :** CJ 3175 Cyberlaw (To be cross listed with POLS 3175, SW 3175 and SOC 3175. See below: II.G.)

Cost: None

Justifications:

Request from Graduation to allow currently enrolled POLS 4930/3140 students to receive credit for course without individual substitutions. Ability to cross/list courses across the departmental curriculum.

Effective Date: Summer 2024

B. COURSE ADDITIONS:

i. **POLS 3660: East Asian Politics – Effective date Summer 2024**

Catalog description: Comparison of the political dynamics and policy behaviors of the systems in East Asia, with a particular focus on the five East Asian states: China, Taiwan, Japan, South Korea, and North Korea. The course examines and compares the major aspects and functions in each of these countries, such as the conditions of regime formation, their political ideologies, the process of economic development and democratization, and foreign policies as an extension of domestic politics. Major contemporary issues and policies of the East Asian systems will be surveyed, with a particular emphasis on how each government enhances its regime's claim to political legitimacy.

ii. **POLS 3680 Global Diplomacy through Board Games – Effective date Summer 2024**

Short Title: Diplomacy through Board Games

Catalog description: This course explores the intricate world of international relations by combining strategic thinking with the excitement of board games. By immersing themselves in various board games designed to simulate real world scenarios, students will gain practical insights into the challenges faced by nations on the global stage and make critical decisions to understand the dynamics of international politics.

iii. **SOC/CJ/SW 2010: Human Behavior in the Social Environment I - Effective date Summer 2024 Short Title: Behavior Social Environment I**

Catalog description: Orients students to theoretical content on the person-in-environment focus in Social Work. An ecological model with a lifespan approach is utilized to explore the periods from conception through late adulthood to understand individuals as they develop throughout the life cycle.

These courses are to be cross listed with one another.

iv. SOC/CJ/SW 2020 Human Behavior in the Social Environment II - Effective date Summer 2024 Short Title: Behavior Social Environment II

Catalog description: This second course in the HBSE sequence expands the students' knowledge of theoretical content, building on the ecological model and lifespan approach to understand individuals as they develop and have membership in families, groups, communities, and organizations.

These courses are to be cross listed with one another.

v. POLS 3690 Intelligence & Leadership in Cybersecurity - Effective date Summer 2024

Short Title: Leadership in Cybersecurity

Catalog description: Catalog Description: Students learn from Intelligence Professionals the basics of how information is turned into intelligence to be utilized by decisionmakers leading their government, public or private organizations to protect against cybersecurity threats. Students further learn how Cyber Threat Intelligence is used to understand Cybersecurity risks from industry leaders within the government, public and private sector and then develop critical thinking to recognize and overcome bias through analytical tradecraft and develop information for executive intelligence reporting by understanding value proposition, bottom line upfront, concise and precise communication. (3) credit hours.

vi. CJ 3140, SW 3140, and SOC 3140 Cyberterrorism – Effective Date Summer 2024.

These courses are duplications of POLS 3140 (formerly POLS 4930, see: I.A). To be cross listed.

vii. POLS 3175, SW 3175 and SOC 3175 Cyberlaw – Effective Date Summer 2024.

These courses are duplications of CJ 3175 (formerly CJ 4960, see I.B). To be cross listed.

Costs: None

Justification: Student demand for courses and the addition of new faculty. In the case of POLS 3690 specifically, there is a problem with Degree Works recognizing this course as a Special Topic (POLS 4915) for the Cyber minor, so we want to add it to the curriculum permanently with a new course number.

C. COURSE DELETIONS

- i. ANTH 1100: Introduction to Anthropology

- ii. ANTH 2002: Non-Western Cultures
- iii. ANTH 2100: Cultural Ecology
- iv. ANTH 4040: Law and Culture
- v. ANTH 4910: Independent Study
- vi. ANTH 4960: Special Topics

Justification: Tech has not had an Anthropologist on staff in years. We are unable to staff these courses.

- vii. SOC 2100: Cultural Ecology
- viii. SOC 2900: Introduction to Sociological Research
- ix. SOC 3550: Applied Sociology
- x. SOC 3710: Urban Sociology
- xi. SOC 4430: People in Organizations

Justification: These classes no longer meet the needs of our major and/or there is an inability to staff them.

- xii. POLS 2230 Mock Trial I (2) credit hours.
- xiii. POLS 2240 Mock Trial II (1 credit hours).
- xiv. POLS 3100 Model United Nations I (2 credit hours).
- xv. POLS 3101 Model United Nations II (1) credit hours).

Justification: The Mock Trial and United Nations courses have been replaced by one semester (3 hr.) courses. There is no reason for these to remain on the books.

- xvi. PHIL 4010: Nature of Knowledge
- xvii. PHIL 4020: Comparative Religion

Justification: Neither of these courses have been taught in well over a decade and there are no plans to offer them in the foreseeable future.

Costs: None

D. COURSE DESCRIPTION AND PREREQUISITE CHANGES

- i. POLS 2250 Mock Trial (3 credit hours)**

FROM: Prerequisite: Sophomore standing or consent of instructor. Introduces the art of persuasion in mock trial cases of civil or criminal law with an emphasis on rules of evidence and courtroom practices. Students will participate in a fall regional invitational competition with the possibility of advancement. May not be repeated for credit.

TO: Prerequisite: POLS 1030 or consent of instructor. Introduces the art of persuasion in mock trial cases of civil or criminal law with an emphasis on rules of evidence and courtroom practices. May be repeated as long as the topic is different. Maximum of 12 hours.

ii. POLS 3130 Moot Court (3 credit hours)

FROM: Prerequisite: POLS 1000 or consent of the instructor. Analysis of mock civil or criminal cases with briefing of twenty cases from provided table of authorities as well as submission of team case brief for scoring. Includes participation in an annual statewide Moot Court competition with oral argument. May be repeated as long as the topic is different. Maximum of 12 hours.

TO: Prerequisite: Consent of the instructor. Analysis of mock civil or criminal cases, case briefing and oral argument. May include participation in an annual statewide Moot Court competition. May be repeated as long as the topic is different. Maximum of 12 hours.

Cost: None

Justification: To allow non-majors to participate and to reflect state competition changes limiting the number of student participants from each university.

E. CURRICULUM CHANGES –

i. For SOC, SLOC-CRCJ, SOC-SW – EFFECTIVE DATE FALL 2024

a. DELETE: Senior Year Requirement, first semester: “SOC 4920 Data Analysis and Management (3) hours or SOC 4930 Field Research Methods (3) hours.”

ADD: Senior Year Requirement, first semester: “SOC/CJ/SW 3620 Victimology (3) hours.”

b. DELETE: Freshman Year Requirement, first semester: “SOC/CJ 2700 Police and Society (3) hours.”

ADD: Freshman Year Requirement, first semester: “SOC/SW/CJ 2010 Human Behavior in the Social Environment I (3) hours.”

Cost: None

Justification: To bring SOC/CJ and SW required courses more in line with state and national standards while retaining existing courses.

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

F. MINOR – CYBER CRIME, LAW AND SOCIETY

- i. Delete POLS 4930
Add POLS 3140
(This is a course number change)
- ii. Delete SOC/CJ 4960
Add SOC/CJ 3175
(This is a course number change)
- iii. ADD as Upper Division OPTION (3hrs)
- iv. POLS 3690 Leadership in Cybersecurity

Justification: Request from Graduation to allow students taking 4930/3140 as well as the new courses to get credit without having to make individual substitutions.

Cost: None

Effective Date: Fall 2024 (or earliest date)

F. CONCENTRATION – POLS-LEGAL STUDIES

- i. ADD POLS 3175 Cyberlaw to Legal Studies Concentration specified elective list for Junior Year, first semester.

ii. ADD POLS 3175 Cyberlaw to Legal Studies Concentration specified elective list for Junior Year, second semester.

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

7. Mechanical Engineering

A. NAME CHANGE

Change the name of the concentration from “Mechatronics” to “Mechatronics and Robotics.”

JUSTIFICATION:

The Mechatronics concentration was added around 10 years ago, and at that time, there were not many Engineering or Engineering Technologies with this specialization. However, there are currently several Mechatronics Technology or Mechatronics Engineering degree programs. These programs tend to focus on the industrial application of Mechatronics, while the TTU program focuses on both the application and theory of Mechatronics. The name change to Mechatronics and Robotics will better reflect the broader nature of our program and differentiate the TTU program from the others.

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

B. Curriculum Changes

JUSTIFICATION:

The curriculum for the BSME Mechatronics is being changed to provide a richer first-year experience and lab experience for ME students. The first-year changes will focus on professional skills in teamwork, analytical thinking, design thinking, experimental thinking, and communication. Three laboratory courses spread over the third and fourth years will be combined into a two-course sequence in the third year. A required course in microcomputer systems has been replaced with a course in machine learning. An optional robotics course has been moved to a required course. The changes reflect modifications to the base BSME degree as well as modifications to the concentration (presented in detail in the following sections changes in italics).

First Year – First Semester

Current		Proposed	
ENGL 1010 Writing I	3	ENGL 1010 Writing I	3
HUFA Humanities Fine Arts 1	3	HUFA Humanities Fine Arts 1	3
MATH 1910 Calculus I	4	MATH 1910 Calculus I	4
CHEM 1110 Gen Chemistry I	4	CHEM 1110 Gen Chemistry I	4
<i>ENGR 1110 Graphics</i>	2	<i>ME 1010 ME Fundamentals I (New)</i>	3
	16		17

First Year – Second Semester (No Change)

Current		Proposed	
ENGL 1020 Writing II	3	ENGL 1020 Writing II	3
CSC 1300 Computer Programming	4	CSC 1300 Computer Programming	4
MATH 1920 Calculus II	4	MATH 1920 Calculus II	4
PHYS 2110 Physics I	4	PHYS 2110 Physics I	4
MATH 2010 Matrix Algebra	3	MATH 2010 Matrix Algebra	3
	18		18

Second Year – First Semester (No Change)

Current		Proposed	
ENGL 2130, 2235 or 2330 Literature	3	ENGL 2130, 2235 or 2330 Literature	3
PHYS 2120 Physics II	4	PHYS 2120 Physics II	4
CEE 2110 Statics	3	CEE 2110 Statics	3
ECE 2140 Intro to Digital Systems	4	ECE 2140 Intro to Digital Systems	4
MATH 2120 Diff. Equations	3	MATH 2120 Diff. Equations	3
	17		17

Second Year – Second Semester

Current		Proposed	
<i>COMM 2025 or PC 2500 Comm</i>	3		
MATH 2110 Calculus III	4	MATH 2110 Calculus III	4
ME 2330 Dynamics	3	ME 2330 Dynamics	3
ECE 2050 Circuits & Electronics	4	ECE 2050 Circuits & Electronics	4
ME 2910 Prof. & Ethics	1	ME 2910 Prof. & Ethics	1
<i>ME 3010 Materials</i>	3	<i>ME 2210 Thermodynamics</i>	3
	18		15

Third Year – First Semester

Current		Proposed	
ME 3001 ME Analysis	3	ME 3001 ME Analysis	3
CEE 3110 Mechanics of Materials	3	CEE 3110 Mechanics of Materials	3
ME 3720 Fluid Mechanics	3	ME 3720 Fluid Mechanics	3
<i>ME 3023 Measurements</i>	3	<i>ME 3310 Experimental Methods I (New)</i>	3
<i>ME 3210 Thermodynamics I</i>	3	<i>ME 3010 Materials</i>	3
	15		15

Third Year – Second Semester

Current		Proposed	
ME 3610 Dynamics of Mach	3	ME 3610 Dynamics of Mach	3
ME 3710 Heat Transfer	3	ME 3710 Heat Transfer	3
<i>ME 4010 Machine Design</i>	3	<i>ME 3020 Machine Design</i>	3
<i>ME 3050 DMC</i>	3	<i>ME 3050 System Dynamics</i>	3
<i>ME 3060 DMC Lab</i>	1	<i>ME 3320 Experimental Methods II (New)</i>	3
<i>ECE 3270 PLC Lab</i>	1	<i>ECE 3270 PLC Lab</i>	1
	16		16

Fourth Year – First Semester

Current		Proposed	
SBS Social Beh Sciences 1	3	SBS Social Beh Sciences 1	3
		<i>COMM 2025 or PC 2500 Comm</i>	3
<i>ECE 3130 Microcomputer Systems</i>	4		
		<i>ME 4140 Robotics</i>	3
ME 4410 Senior Design I	3	ME 4416 Senior Design I – M&R	3
<i>ME 4020 or ME 4720</i>	3	<i>ME 4370 Mechatronics</i>	3
<i>ME 4751 Energy Sys Lab</i>	2		
	15		15

Fourth Year – Second Semester

Current		Proposed	
SBS Social Beh Sciences 2	3	SBS Social Beh Sciences 2	3
HUFA Humanities Fine Arts 2	3	HUFA Humanities Fine Arts 2	3
ECE 3210 or ME 4810 Controls	3	ECE 3210 or ME 4810 Controls	3
<i>ME 4370 Mechatronics</i>	3	<i>ME 4390 Machine Learning in ME</i>	3
<i>ME 4420 Senior Design II</i>	3	<i>ME 4426 Senior Design II – M&R</i>	3
	15		15

C. Course Deletions

- i. ME 2001: Elementary Mechanical Analysis
- ii. ME 3110: Physical Metallurgy and Heat Treatment
- iii. ME 3900: Design and Professionalism
- iv. ME 3910: ME Seminar
- v. ME 4160: Experimental Stress Analysis
- vi. ME 4430: Micro & Nano Manufacturing
- vii. ME 4444: Senior Design Project
- viii. ME 4470: Ceramic Materials Processing
- ix. ME 4490: Properties and Selection of Engineering Materials
- x. ME 4910: Professionalism and Ethics
- xi. ME 4950: Introduction to MEMS

IMPACT ON FACULTY: NONE

EFFECTIVE DATE: Fall 2024

JUSTIFICATION

All of the courses have been made obsolete by curriculum changes or changes in faculty. The elective courses have not been taught since 2008 or longer.

D. Course Additions

- i. ME 4390: Machine Learning in Mechanical Engineering

Lec. 2. Lab. 2. Cr. 3. Prerequisites: ME 3050. This course will provide an overview of machine learning theory and cover specific applications for embedded systems. Machine learning provides a core set of tools to process data to perform decision-making and is thus a core tool for engineering. Applications of machine learning in mechanical engineering, span manufacturing, robotics, HVAC, control, etc., will be the focus of this course.

JUSTIFICATION

The course is being added to allow students to build machine-learning skills in mechanical engineering applications. The course will be required in the Mechatronics and Robotics concentration and be a technical elective for other ME students.

IMPACT ON FACULTY: NONE

ii. ME 4416: Senior Design I – Mechatronics and Robotics

Lec. 2. Lab. 2. Cr. 3. Prerequisite: Completion of required 3000-level ME courses; ME 4010. Co-requisite: ME 3050. Principles of engineering design with emphasis on contemporary mechatronics and robotics industrial design processes and engineering economics with applications in product design. Development phase for capstone team design project in mechanical engineering: preliminary design, supporting analyses, and drawings with bill of materials.

JUSTIFICATION

The course is being added to the Mechatronics Concentration so that the students in the concentration will be grouped for their senior design experience. The grouped senior design approach is used by all of the other concentrations in Mechanical Engineering.

IMPACT ON FACULTY: NONE

EFFECTIVE DATE: Fall 2024

iii. ME 4426: Senior Design II – Mechatronics and Robotics

Lec. 1. Lab. 4. Cr. 3. Prerequisite: ME 4416; ME 4370. Co-requisite: ME 4370. Selection of materials and Manufacturing Processes, Design for manufacturing, Design for Sustainability and Cost Analysis. Fabrication/ building of prototype of design developed in ME4416 to prove the concept is required. Use of 3D printing and machine shop equipment are expected. Assembly, testing and data collection and analysis required. Final project report and presentation required.

JUSTIFICATION

The course is being added to the Mechatronics Concentration so that the students in the concentration will be grouped for their senior design experience. The grouped senior design approach is used by all of the other concentrations in Mechanical Engineering.

IMPACT ON FACULTY: NONE

EFFECTIVE DATE: Fall 2024

E. Course Change

VE 4100: Senior Design Project 1 - ME

Lec. 2. Lab. 2. Cr. 3.

Current Prerequisites: VE 3400.

Proposed Prerequisites: VE 3500, ME 3220, ME 3610, ME 4010, ME 3710, ME 3050 can be taken concurrently.

Principles of vehicle engineering design with emphasis on contemporary industrial design processes and engineering economics with applications in product design.

Development phase for capstone team design project in vehicle engineering: preliminary design, supporting analyses and drawings with bill of materials.

JUSTIFICATION

The course prerequisites were initially setup broadly to allow students into the concentration as it was established but now allow students to enroll in course before they are prepared. Going forward VE 4100 will be for ME students in the concentration and there will be a course for the ECE students in VE. The prerequisites are changing to reflect the expectations of a ME major.

IMPACT ON FACULTY: NONE

EFFECTIVE DATE: Fall 2024

F. Course Additions

i. VE 4102 - Senior Design Project I - EE

Lec. 2. Lab. 2. Credit

Prerequisite: C or better 3. in CSC 1310, C or better in ECE 2140, C or better in ECE 3050, C or better in ECE 3130, C or better in ECE 3330, C or better in ECE 3920, C or better in MATH 2010, C or better in MATH 2110, C or better in MATH 34 70, C or better in VE 3400, and Senior Standing. The first in a sequence of two capstone design project courses. Principles engineering design with emphasis on contemporary vehicle engineering applications. of Product cost economics analysis with underlying principles related to cost of money and breakeven analysis. Project proposal writing, preliminary design, supporting analyses and drawings with bill of materials ready to fabricate the following semester.

ii. VE 4202 - Senior Design Project EE

Lec. 1. Lab. 4. Credit

Prerequisite: C or better 3. in VE 4102.

The second in a sequence of two capstone design project courses. Prototyping and testing phase for capstone team design project in vehicle engineering. Final design reporting (written and oral).

Justification: Separate course numbers are needed for electrical engineering and mechanical engineering majors to allow for prerequisites appropriate to the major.

G. Course Change

VE 4100: Senior Design Project 1

Lec.2. Lab.2. Cr.3.

Current Prerequisites: VE 3400.

Proposed Prerequisites: VE 3500, ME 3220, ME 3610, ME 4010, ME 3710, ME 3050 can be taken concurrently.

Principles of vehicle engineering design with emphasis on contemporary industrial design processes and engineering economics with applications in product design.

Development phase for capstone team design project in vehicle engineering: preliminary design, supporting analyses and drawings with bill of materials.

JUSTIFICATION

The course prerequisites were initially setup broadly to allow students into the concentration as it was established but now allow students to enroll in course before they are prepared. Going forward VE 4100 will be for ME students in the concentration and there will be a course for the ECE students in VE. The prerequisites are changing to reflect the expectations of a ME major.

Impact on Faculty: None

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

8. Exercise Science

A. Course Additions:

i. EXPW 2720. Lesson Planning 101. (Lec. 2, Credit 2).

This course will provide pre-service teachers with tools and understanding necessary to write quality lesson plans. Must receive grade of B or better.

ii. EXPW 2235. Chronicle of Sport. (Lec. 3, Credit 3).

This course gives historical facts and perspectives of how sport in America has evolved.

iii. EXPW 3235. Sports Marketing (Lec. 3, Credit 3).

This is an introduction to the principles of marketing and how these principles can be applied to the sports industry.

iv. EXPW 4235. Sport Law (Lec. 3, Credit 3).

This course provides an overview of the business and legal issues within both professional and amateur sports.

v. EXPW 4275. Sport Finance. (Lec. 3, Credit 3).

An examination of principles of finance as applied to budgeting, operations, and business decisions in recreation and sport organizations.

vi. EXPW 4920. Special Topics. (Credit 1-3).

This is an advanced course covering current topics in exercise science, sport, teaching, wellness, or related topics. May be taken more than once up to 6 credits, as topics change.

B. New Courses

i. EXPW 4845 – Physical Education Field Experience (lab 2, cr 1)

Prerequisite: Teacher licensure major

Candidates learn from seasoned physical education professionals. Must pass background check before going into school setting.

ii. EXPW 4883 – Residency (cr 10)

Prerequisite: Teacher licensure major, accepted into Teacher Education, EXPW 4722, EXPW 4752, EXPW 4712, EXPW 4751, EXPW 4751 and EXPW 4874 with grade of B or better.

Full-time, supervised teaching experience where candidate teaches physical education at an assigned placement. Candidate must complete and submit the EdTPA assessment during this course and make the minimum cut score of higher for program completion, graduation and earning a Tennessee teaching license.

C. Course Changes

i. From: EXPW 1021 – Connections to EXPW

This course is designed to give the student an overview of the University as well as introduce the various career paths that are possible with a degree in Exercise Science. The goal for this class is to help students to connect with one another, the EXPW family, campus, and community.

To: **EXPW 1021 – Connections to Exercise Science**

An introduction to the university as well as various career paths possible with a degree in Exercise Science. Students connect with one another, the exercise science faculty, campus, and community.

ii. From: EXPW 1022 – Introduction to EXPW

This course is designed to provide students with relevant information about the Exercise Science Department and educational opportunities within as well as historical background, general scope, occupational opportunities, and principles and objectives of exercise science, and related fields/occupations.

To: **EXPW 1022 – Introduction to Exercise Science**

Students gain relevant information about the department, educational opportunities and career paths in exercise science.

iii. From: EXPW 1110 – Introduction to Athletic Training

This course will define and explore the profession of Athletic Training. Critical tasks, domains, essential competencies, and associated knowledge that Athletic Trainers should possess to perform the required functions satisfactorily will be identified and explored. The various job settings, career paths, and educational requirements of Athletic Trainers will be investigated. Areas to be covered include: the history of Athletic Training, the role of the Athletic Trainer in Sports Medicine, athletic training facility organization, blood borne pathogens and OSHA, administrative concepts, legislative and legal concerns, basic medical terminology, and record-keeping.

To: **EXPW 1110 – Introduction to Athletic Training**

Exploration of athletic training as a profession. Career paths, job settings and educational requirements will be investigated.

iv. From: EXPW 1120 – Introduction to Occupational Therapy

This course provides interested students the fundamental concepts in Occupational Therapy (OT). It presents a broad overview and history of the profession while discussing current professional roles within the practice setting, current issues and trends in the field, and treatment development based on the theoretical models of practice applicable to OT. Students will examine the OT process, ethics in regards to practice, interdisciplinary team process, and meaningful occupation in various contexts of practice.

To: EXPW 1120 – Introduction to Occupational Therapy

Fundamental concepts of occupational therapy (OT) are explored. Expect a broad overview of the profession while discussing current professional roles in various settings.

v. From: EXPW 1130 – Introduction to Physical Therapy

This course provides interested students the fundamental concepts in Physical Therapy (PT). It presents a broad overview and history of the profession while discussing current professional roles within the practice setting, current issues and trends in the field, and treatment development based on the theoretical models of practice applicable to PT. Students will examine the PT process, ethics in regards to practice, interdisciplinary team process, and meaningful occupation in various contexts of practice.

To: EXPW 1130 – Introduction to Physical Therapy

Fundamental concepts of Physical Therapy (PT). A broad overview and history while discussing current professional roles current issues, trends in the field, and treatments.

vi. From: EXPW 1150 – Care & Prevention of Athletic Injury

This course introduces basic knowledge of the prevention, recognition, management, and rehabilitation of common athletic injuries. Topics will include

sports nutrition, protective equipment, handling emergency situations, injury assessment, basic injury rehabilitation, and recognizing various types of sports injuries. In addition, students will learn basic wrapping and taping techniques.

To: **EXPW 1150 – Care & Prevention of Athletic Injury**

Introduction to basic knowledge of prevention, recognition, management, and rehabilitation of common athletic injuries.

vii. From: **EXPW 2001 – Orthopedic Assessment I**

Prerequisite: Sophomore standing, EXPW 2900 with grade of C or better.
Corequisite: BIOL 2010. This course is designed for advanced study of the etiology, pathology, and clinical signs and symptoms of common injuries to the lower extremities and lumbar spine. Students will learn the elements of the evaluation, assessment, management, and rehabilitation of common athletic injuries in the lower extremities and lumbar spine region. Emphasis is placed on clinical evaluation of injuries by the Athletic Trainer. Students will have opportunities for demonstration and hands-on experience related to skills learned in the classroom. Clinical experiences are designed to evaluate specific clinical competencies introduced in this course. Students will participate in clinical instruction and must demonstrate proficiency in the clinical competencies. Students must work in the field with a Certified Athletic Trainer in the 30-hour supervised clinical/field experience. Students with the Pre-Athletic Training concentration must pass this class with a “B” or better to continue in the program.

To: **EXPW 2001 – Orthopedic Assessment I**

Prerequisite: Sophomore, EXPW 2900 with grade of C or better.

Advanced study of the etiology, pathology, and clinical signs and symptoms of common injuries to the lower extremities and lumbar spine. Students in the pre-athletic training concentration must pass with a “B” or better to continue in the program.

viii. From: **EXPW 2002 – Orthopedic Assessment II**

Prerequisite: Sophomore standing, EXPW 2001 & BIOL 2010. Co-requisite: BIOL 2020. This course is designed for advanced study of the etiology, pathology, and

clinical signs and symptoms of common injuries to the upper extremities, cervical and thoracic spine, and abdomen. Students will learn the elements of the evaluation, assessment, management, and rehabilitation of common athletic injuries in these anatomical regions. Emphasis is placed on clinical evaluation of injuries by the Athletic Trainer. Students will have opportunities for demonstration and hands-on experiences directly related to the skills learned in the classroom. Clinical experiences are designed to evaluate specific clinical competencies introduced in the classroom. Students will participate in clinical instruction and must demonstrate proficiency in the clinical competencies. Students must work in the field with a Certified Athletic Trainer in the 30-hour supervised clinical/field experience. Students with the Pre-Athletic Training concentration must pass this class with a “B” or better to continue in the program.

To: EXPW 2002 – Orthopedic Assessment II

Prerequisite: Sophomore, EXPW 2900 with grade of C or better.

Advanced study of the etiology, pathology, and clinical signs and symptoms of common injuries to the upper extremities, cervical and thoracic spine, and abdomen. Students in the pre-athletic training concentration must pass with a “B” or better to continue in the program.

ix. From: EXPW 2100 – Lifeguard Training

This course is designed to prepare students to perform the duties and responsibilities of a life guards of swimming pools and at protected open water non-surf beaches. Satisfactory completion can lead to lifeguard certification.

To: EXPW 2100 – Lifeguard Training

Designed to prepare students to perform the duties and responsibilities of a lifeguard for swimming pools and at protected open water non-surf beaches. Satisfactory completion can lead to lifeguard certification.

x. From: EXPW 2130 – Concepts of Comprehensive Health

This course is designed to provide current information related to all areas of personal health to the student. This is typically a survey of the areas and aspects of health and wellness.

To: EXPW 2130 – Concepts of Comprehensive Health

Designed to provide current information related to all areas of personal health. A survey of areas and aspects of health and wellness.

xi. From: EXPW 2150 – Human Sexuality

This course is a survey of the dynamics of human sexuality as well as an identification and examination of basic issues in human sexuality as relating to the larger society. Topics include: current/historical issues, attitudes, and perspectives towards sexuality; anatomy and physiology of male and female reproductive systems; human sexual response cycle; conception/childbirth; contraception; sexually transmitted infections; sex and the law; sexual expression and variation; and typical and atypical sexual behaviors.

To: EXPW 2150 – Human Sexuality

A survey of the dynamics of human sexuality as well as identification and examination of basic issues in human sexuality as relating to the larger society.

xii. From: EXPW 2170 – Intro to Sport Mgmt

This course is an overview of the fundamental principles of management and administration of sport programs. The combination of theory and practice related to legal and ethical issues, marketing, and organizational structure of sport-related services and facilities is covered.

To: EXPW 2170 – Intro to Sport Mgmt

An overview of fundamental principles of management and administration of sport programs.

xiii. From: EXPW 2200 – Ldrship Devlp in Ex Sci & Sport

This course combines leadership theory with practical application, equipping students with the knowledge and skills needed for leadership in team sports and exercise science. Leadership is explored as an integral component of a student's

career and life plan, focusing on the value of developing a philosophy for self-leadership that will help students move toward influencing others.

To: EXPW 2200 – Ldrship Devlp in Ex Sci & Sport

A combination of leadership theory and practical application, to equip students with knowledge and skills needed for leadership in team sports and exercise science.

xiv. From: EXPW 2250 – The Art of Coaching

The science and psychology of implementing the art of coaching athletes, clients, and patients in the fields of strength and conditioning, personal training, athletic training and other health and wellness related careers. Focus on quality instruction, coaching and leadership through application of learned coaching skills and methods.

To: EXPW 2250 – The Art of Coaching

Science and psychology of implementing the art of coaching athletes, clients, and patients in strength and conditioning, personal training, athletic training and other health and wellness related careers. Focus on quality instruction, coaching and leadership through application of learned coaching skills and methods.

xv. From: EXPW 2430 – First Aid, Safety & CPR

This course consists of practice and application of the most current standards and accepted principles of CPR, safety and first aid. Students have opportunity to obtain certification through the American Red Cross.

To: EXPW 2430 – First Aid, Safety & CPR

Practice and application of the most current standards and accepted principles of CPR, safety and first aid. Students have opportunity to obtain certification through the American Red Cross.

xvi. From: EXPW 3001 – Therapeutic Rehab/Modalities

Prerequisite: EXPW 2001 and EXPW 2002. Co-requisite: EXPW 3011. This course explores the principles in planning and implementation of rehabilitation programs for injured athletes. Emphasis is placed on development of comprehensive, individualized rehabilitation protocols using a combination of therapeutic modalities and exercises. Specifically, students will plan and

implement sport-specific functional rehabilitation programs based on predetermined therapeutic goals and objectives. Students will have opportunities for demonstration and hands-on learning of the skills learned in the EXPW 3006 – Prerequisite: EXPW 3001 and HEC 2220. This course includes the advanced study in Athletic Training of general medical conditions and disabilities, head and facial injuries, and internal injuries in the athlete. Students will use skills developed in previous courses to perform general medical examinations within the scope of Athletic Training practice and examine the etiology of illnesses and diseases present in athletic populations.

To: **EXPW 3001 – Therapeutic Rehab/Modalities**

Prerequisite: EXPW 2001 and EXPW 2002.

Exploration of principles in planning and implementation of rehabilitation programs for injured athletes. Emphasis on development of comprehensive, individualized rehabilitation protocols using a combination of therapeutic modalities and exercises.

xvii. From: EXPW 3006 – Med Aspects/Athletic Training

Prerequisite: EXPW 3001 and HEC 2220. This course includes the advanced study in Athletic Training of general medical conditions and disabilities, head and facial injuries, and internal injuries in the athlete. Students will use skills developed in previous courses to perform general medical examinations within the scope of Athletic Training practice and examine the etiology of illnesses and diseases present in athletic populations.

To: **EXPW 3006 – Med Aspects/Athletic Training**

Prerequisite: HEC 2220. Advanced study of general medical conditions and disabilities, head and facial injuries, and internal injuries in athletes.

xviii. From: EXPW 3011 – Clinical I

This clinical experience is designed to provide opportunities for students to evaluate specific clinical competencies introduced in the previous Athletic Training classes. Students will receive clinical instruction and must demonstrate proficiency in the clinical competencies. This course provides an opportunity for the athletic training student to practice and observe athletic training skills in a clinical setting. Students will assist a Certified Athletic Trainers with various sports and teams in the area as well as observe in a Physical Therapy clinic.

Students are required to complete a minimum of 120 clinical hours under the direct supervision of an accredited preceptor.

To: **EXPW 3011 – Clinical I**

Clinical experience designed to provide opportunities for students to evaluate specific clinical competencies. Opportunities to practice and observe athletic training skills in a clinical setting. Minimum of 120 clinical hours under the direct supervision of an accredited preceptor.

xix. From: **EXPW 3032 – Exercise Prescription/Fit-Wellness**

Prerequisite: Junior or Senior standing. The purpose of this course is to assist students with exercise testing decision-making and techniques as well as to determine appropriate exercise programming for desired fitness goals. Students will learn field and lab assessments of health-related physical fitness and design exercise programs to target specific outcomes in various populations.

To: **EXPW 3032 – Exercise Prescription/Fit-Wellness**

Prerequisite: Junior or Senior standing.

Exercise testing, decision-making and techniques to determine appropriate exercise programming for desired fitness goals. Field and lab assessments of health-related physical fitness and designing exercise programs to target specific outcomes in various populations included.

xx. From: **EXPW 3091 – Coaching Individual Sports**

Prerequisite or corequisite: EXPW 3180. This course is a study of philosophies, skills, knowledge, strategies, and leadership associated with coaching selected individual sports.

To: **EXPW 3091 – Coaching Individual Sports**

Prerequisite or Co-requisite: EXPW 3180.

Study of philosophies, skills, knowledge, strategies, and leadership associated with coaching selected individual sports.

xxi. From: **EXPW 3092 – Coaching Team Sports**

Prerequisite: EXPW 3180. This course is designed to examine the theory and practice of coaching volleyball, basketball, baseball/softball and soccer.

To: **EXPW 3092 – Coaching Team Sports**

Prerequisite or Co-requisite: EXPW 3180.

Examination of theory and practice of coaching team sports including but not limited to volleyball, basketball, baseball/softball, and soccer.

xxii. From: EXPW 3132 – School Wellness Pedagogy/Pract

Prerequisite: EXPW 2130 or EXPW 2015 and Physical Education licensure major. This course is designed to provide the student multiple opportunities to examine Health or Lifetime Wellness curriculum design, gain familiarity with instructional methodology and design as well as participate in supervised practicum. experience in the secondary health or lifetime wellness classroom. Students develop lesson plans according to the State of Tennessee standards for Lifetime Wellness using the EdTPA lesson plan model. Lesson/learning assessment is also included as a core component of this course.

To: EXPW 3132 – School Wellness Pedagogy/Pract

Prerequisite: EXPW 2015 & licensure major.

Multiple opportunities to examine health/lifetime wellness curriculum design, gain familiarity with instructional methodology and design, and participate in supervised practicum in a secondary health/wellness classroom.

xxiii. From: EXPW 3170 – Motor Learning

This course is designed so that students can learn about the process of improving motor skills through practice, with long-lasting changes in the capability for responding. Through work in the classroom and lab-like experiences the processes and principles of motor learning will be examined.

To: EXPW 3170 – Motor Learning

The process of improving motor skills through practice, with long-lasting changes in the capability for responding. Through work in the classroom and lab-like experiences the processes and principles of motor learning will be examined.

xxiv. From: EXPW 3180 – Intro to Coaching

This course provides candidates with an exposure to the application of theoretical aspects of coaching including philosophy, teaching, training, management, ethics, gender and culture.

To: EXPW 3180 – Intro to Coaching

Exposure to the application of theoretical aspects of coaching, including philosophy, teaching, training, management, ethics, gender, and culture.

xxv. EXPW 3301 – Sports Officiating/Sports

This course is intended to teach the student the knowledge of the rules, duties, responsibilities, signals, positioning, and philosophy of a sports official through classroom and practical officiating experience for the sports of tennis, baseball, and softball. This class will require 15 hours of practical "lab" experience outside of the classroom and in addition to the lectures. Lecture length will be adjusted to accommodate for outside class requirements.

To: EXPW 3301 – Sports Officiating/Sp Sports

Rules, duties, responsibilities, signals, positioning, and philosophy of a sports official through classroom and practical experience for individual sports including tennis, baseball, and softball.

xxvi. From: EXPW 3310 – Professional Preparation

This course is designed for every student to benefit from learning about the graduate school application process, preparing documents for graduate school applications as well as first time on the professional job market, learning to sell one's self to potential employers or others who are reviewing applications and/or interviewing. Cover letters, follow-up procedures, professional philosophy and writing a winning resume are topics to be covered.

To: EXPW 3310 – Professional Preparation

Useful information about the graduate school application process and preparing for a professional job interview, including writing a winning resume and cover letter, professional philosophy, interviewing practice and follow-up procedures will be covered.

xxvii. From: EXPW 3410 – Lifespan Motor Development

This course is an introduction to the developmental aspects of human motor behavior across the life span, essentially observing movement from birth and throughout life, identifying how and why movement happens the way it does and why movement changes throughout life. The main focus is on characteristics of the stages of motor development as well as issues related to the physical growth, and development.

To: EXPW 3410 – Lifespan Motor Development

Introduction to the developmental aspects of human motor behavior across the life span. The focus is characteristics of stages of motor development as well as issues related to physical growth and development.

xxviii. From: EXPW 3420 – Organization & Oversight

Prerequisites: Exercise Science major with concentration in Sport Performance. This course is designed for students to learn the principles and ACSM guidelines involved in the development, organization and administration of a sports and fitness facility.

To: EXPW 3420 – Organization & Oversight

Prerequisites: Exercise Science major with concentration in Sport Performance or permission of the instructor.

Learn the principles and ACSM guidelines involved in the development, organization and administration of a sports and fitness facility.

xxix. From: EXPW 3565 – Physical Activity/Sport Skills

This course is designed to provide for students' multiple and varied experiences participating in physical activities and sports. Additionally, students will learn motor and sport skills as well as fitness concepts that can serve in various capacities throughout life. skills for participation, rules, strategies and general knowledge about archery, badminton, basketball, bowling, field hockey, flag football, golf, lacrosse, pickleball, soccer, slow-pitch softball, swimming, tennis, ultimate frisbee, disc golf, volleyball, cricket, dance and other rhythmic activities and tumbling will be explored.

To: EXPW 3565 – Physical Activity/Sport Skills

Multiple and varied experiences participating in physical activities and sports. skills for participation, rules, strategies, and general knowledge about a variety of physical activities and sports will be explored. Has a physical activity component. Licensure majors must pass with grade of B or better.

xxx. From: EXPW 3660 – Curriculum in Physical Edu

Prerequisite: Full admission to the Teacher Education Program. This course examines various curriculum models in physical education and prepares teacher candidates to construct and evaluate curricula in physical education.

To: EXPW 3660 – Curriculum in Physical Edu

Prerequisite: Licensure candidate

Develop skills and understanding to design physical education curricula, interpret and utilize existing curriculum models and evaluate usefulness in physical education programs.

xxxi. From: EXPW 3720 – Instructional Strategies

This course is designed for students who plan to teach physical education to identify specific strategies that will be beneficial while teaching in the physical education classroom. The philosophy of teaching physical education, models of instruction and administration of physical education programs, and methods of planning and managing physical education classes is included.

To: EXPW 3720 – Instructional Strategies

Prerequisite: Licensure major, must pass with “B” or better.

For physical education teacher candidates to identify specific strategies beneficial to teaching physical education.

xxxii. From: EXPW 4001 – Senior Seminar

Prerequisite: Senior standing, EXPW 4730. This class is designed for students to develop skills and knowledge base that will aid the student while conducting and critically reviewing research in Athletic Training. Students will prepare and present a research project on a topic approved by the instructor. In addition, this course will provide the student the opportunity to explore and evaluate CAATE accredited Athletic Training programs and prepare students for the application and selection process.

To: EXPW 4001 – Senior Seminar

Prerequisite: Senior standing, EXPW 4730.

Develop knowledge and skills to aid in conducting and critically reviewing research. Opportunity to explore and evaluate CAATE accredited athletic training programs and prepare for the application and selection process is included.

xxxiii. From: EXPW 4011 – Clinical II

Clinical experiences are designed to evaluate specific clinical competencies introduced in the previous Athletic Training classes. This course provides opportunities for the athletic training student to practice and observe athletic training skills in a clinical setting. Students must demonstrate proficiency in advanced clinical competencies and are expected to perform the skills learned in the previous semesters. Students are required to seek out and secure individual placement in a clinical setting such as university or high school athletic training room, physical therapy clinic, urgent care, emergency care, etc.

Students must complete a minimum of 120 clinical hours under the supervision of an approved preceptor and placement must be approved by the EXPW 4032 – Training for Performance

The purpose of this course is to expose students to theory that dictates physical training for sport performance as well as the practical application of physical training and evaluation. Students will participate in various in-class evaluation, practical training, and prescription activities. The course will also serve as a beginning preparatory course for the NSCA CSCS examination.

To: **EXPW 4011 – Clinical II**

Opportunities to practice and observe athletic training skills in a clinical setting. Must demonstrate proficiency in advanced clinical competencies and perform the skills learned in the previous semesters. Must complete 120 clinical hours under supervision of an approved preceptor.

xxxiv. From: EXPW 4032 – Training for Performance

The purpose of this course is to expose students to theory that dictates physical training for sport performance as well as the practical application of physical training and evaluation. Students will participate in various in-class evaluation, practical training, and prescription activities. The course will also serve as a beginning preparatory course for the NSCA CSCS examination.

To: **EXPW 4032 – Training for Performance**

Examine theory that dictates physical training for sport performance as well as practical application of physical training and evaluation. In-class evaluation, practical training, and prescription activities serve as a beginning preparation for the NSCA CSCS examination.

xxxv. From: EXPW 4042 – Health Promotion

This Course is an evaluation of various physical activity behavior change models, assessment of health promotion programs and evaluation standards. Topics include: health status; historical and current issues in health promotion; philosophical foundations of health promotion; intrapersonal health behavior change theories; CHES; work settings for health educators; and ethics in health promotion.

To: **EXPW 4042 – Health Promotion**

Prerequisite: Senior status or permission of the instructor

Foundational history and philosophical guidelines related to various behavior change models, evaluation standards and assessment of health promotion programs.

xxxvi. From: EXPW 4105 – Issues in Sport Performance

Prerequisites: Major in Exercise Science with concentration in Sport Performance. An introduction to the critical questions that explore relationships between the performance coach, medical staff, sport coach, and athletes. Current sport-related controversies regarding coaching philosophies, values, and ethics are examined to enhance communication and decision making in sport and athletic performance setting

To: EXPW 4105 – Issues in Sport Performance

Prerequisites: Exercise Science major with concentration in Sport Performance or permission of the instructor.

An introduction to the critical questions that explore relationships between the performance coach, medical staff, sport coach, and athletes. Current sport-related controversies regarding coaching philosophies, values, and ethics are examined to enhance communication and decision making in sport and athletic performance settings.

xxxvii. From: EXPW 4110 – Tactical Populations

Prerequisite: Major in Exercise Science and Concentration in Sport Performance, senior standing and completion of EXPW 4730 with a grade of B or better. This course examines the demands and challenges of increasing human performance within the context of military, law enforcement, fire, rescue, and emergency medical personnel. Improved performance within various fields will be the basis of study.

To: EXPW 4110 – Tactical Populations

Prerequisite: Exercise Science major with concentration in Sport Performance or permission of the instructor, senior standing, EXPW 4730 with a grade of B or better. Examination of the demands and challenges of increasing human performance within the context of military, law enforcement, fire, rescue, and emergency medical personnel. Improved performance within various fields will be the basis of study.

xxxviii. From: EXPW 4171 – Exercise & Sport Psychology

Prerequisite: Junior or Senior Standing in EXPW and PSY 1030 or permission of instructor. This course is designed to provide an introduction to the field of exercise and sport psychology, history, theory, and psychological techniques

that hinder or enhance exercise, rehabilitation and sport performance. Students should be able to understand psychological techniques that help or hinder their own performance in sport, exercise and other areas, i.e., academics, career, etc.

To: **EXPW 4171 – Exercise & Sport Psychology**

Prerequisite: Junior or senior standing, Exercise Science major, and PSY 1030 or permission of instructor.

An introduction to exercise and sport psychology, history, theory, and psychological techniques that hinder or enhance exercise, rehabilitation, and sport performance.

xxxix. From: EXPW 4420 – Kinesiology

Prerequisite: BIOL 2010 or BIOL 2350 and EXPW 2900. This course is the advanced study of the anatomy of the muscular, skeletal and articular systems, and basic biomechanics and applications related to training and performance of athletes.

To: **EXPW 4420 – Kinesiology**

Prerequisite: EXPW 2900.

Advanced study of the anatomy of the muscular, skeletal, and articular systems, and basic biomechanics and applications related to general movement and training and performance of athletes.

xxxx. From: EXPW 4440 – Physiology of Exercise

Prerequisite: BIOL 2350 or BIOL 2010 and EXPW 2900. During this class, students will examine the physiological effects of exercise, sports, and other stresses on the various systems of the human body. Application of principles to physical fitness, physical education, and athletics is included.

To: **EXPW 4440 – Physiology of Exercise**

Prerequisite: BIOL 2350 or BIOL 2010 and EXPW 2900.

Examination of the physiological effects of exercise, sports, and other stresses on the various systems of the human body.

xxxxi. From: EXPW 4442 – Performance/Recovery in Sport

Prereq: EXPW 4440 with a grade of B or better. This course is the study of the immediate and long-term effects of physical activity on the acute and chronic effects of physical activity on body systems with regard to the neuromuscular,

energy, respiratory and cardiovascular systems with reference to exercise evaluation and prescription.

To: EXPW 4442 – Performance/Recovery in Sport

Prerequisite: EXPW 4440 with a grade of B or better.

Study of the immediate and long-term effects of physical activity on the acute and chronic effects of physical activity on body systems with regard to the neuromuscular, energy, respiratory and cardiovascular systems with reference to exercise evaluation and prescription.

xxxii. From: EXPW 4520 – Adapted Phys Activity - Sport

The purpose of this course is to guide students in developing knowledge of current trends and concepts in adapted physical education and sport as well as examining various services, programs and requirements for individuals with disabilities. By the end of the course students should display acceptable levels of confidence in screening children who may need adapted physical education/activity as well as working with and evaluating special needs children. Design and implementation of adapted physical activity & sport programs to meet unique needs of individuals will also be required.

To: EXPW 4520 – Adapted Phys Activity/Sport

Developing knowledge of current trends and concepts in adapted physical education and sport as well as examining various services, programs, and requirements for individuals with disabilities. Design and implementation of adapted physical activity & sport programs to meet unique needs of individuals will also be required.

xxxiii. From: EXPW 4540 – Ethical Issues in Sport

Prerequisite: Junior or senior standing. This course is designed to assist students in self-evaluating, examining, and developing a philosophy, values, and moral reasoning skills. Major moral/ethical issues within sports will be researched and discussed. Students will experience the ethical decision-making process through opportunities for critical analysis drawing upon their philosophical values.

To: EXPW 4540 – Ethical Issues in Sport

Prerequisite: Junior or senior standing or permission of instructor.

Major moral/ethical issues within sports will be researched and discussed. Ethical decision-making process through opportunities for critical analysis drawing upon philosophical values, self-evaluating, examining, and developing a philosophy, and moral reasoning skills included.

xxxxiv. From: EXPW 4550 – Sports Governance

Prerequisite: Junior or senior standing. This course is designed for students interested in the growing problems of sports litigation. Amateur and professional aspects of sports are covered from four major perspectives: (1) judicial review of athletic associations; (2) eligibility rules and disciplinary measures; (3) equal opportunity provisions; and (4) tort liabilities. Specific topics include due process, anti-trust, and free speech, coed competition, duty of ordinary care, and of care owed athletes and spectators, injuries, assumption of risk, and contributory negligence. The course stresses the application of principles of law to the sports setting. Actual court cases relating to these principles are examined.

To: **EXPW 4550 – Sports Governance**

Prerequisite: Junior or senior standing or permission of the instructor.

Focus on the growing problems associated with sports litigation. Amateur and professional aspects of sports are covered from four major perspectives: (1) judicial review of athletic associations; (2) eligibility rules and disciplinary measures; (3) equal opportunity provisions; and (4) tort liabilities.

xxxxv. From: EXPW 4560 – Facilities Planning & Mgmt

Prerequisite: Junior or Senior Standing. This course is an overview of all elements involved in sport event management. One key component of the course is includes the planning, organizing, marketing, and conducting of an a mock event during the semester.

To: **EXPW 4560 – Facilities Planning & Mgmt**

Prerequisite: Junior or senior standing or permission of the instructor.

Overview of elements involved in sport event management, including planning, organizing, marketing, and conducting a mock event.

xxxxvi. From: EXPW 4570 – Fundraising/Revenue Gen in Sport

This course is designed to provide the student with both theoretical and practical applications of fundraising and generating revenue in the sports industry. The focus will be geared toward successful fundraising in sport programs at the educational, commercial and professional levels.

To: **EXPW 4570 – Fundraising/Revenue Gen in Sport**

Theoretical and practical applications of fundraising and generating revenue in the sports industry. The focus will be geared toward successful fundraising in sport programs at the educational, commercial, and professional levels.

xxxxvii. From: EXPW 4712 – Meth of Tchng Secondary PE

Corequisite: EXPW 4751. This course provides teacher candidates the opportunity to examine and develop instructional methods related to planning, teaching and analyzing skills appropriate for secondary physical education. Scope and sequence of sport skills and levels of practice as well as skill performance will be addressed. Candidates will prepare multiple lessons using the state standards for physical education for grades 6-8 and 9-12. The EdTPA lesson plan template and assessment process will be utilized during the course to help prepare candidates for the residency experience. Understanding of the content of this course is important, as it is assessed on the Praxis II exam which must be taken and passed before being allowed into residency. Applied learning theory and teaching methodology will be examined.

To: EXPW 4712 – Meth of Tchng Secondary PE

Prerequisite: Full admission to teacher education, EXPW 2720, EXPW 3720 and EXPW 3565 with grade of B or better.

Corequisite: EXPW 4751.

Opportunity to examine and develop instructional methods related to planning, teaching, and analyzing skills appropriate for secondary physical education. Applied learning theory and teaching methodology will be examined. Must have grade of B or better to progress to Residency.

xxxxviii. From: EXPW 4722 – Meth of Tchng Elem PE

Prerequisite: Physical Education licensure major, full admission to the teacher education program; completion of EXPW 3720, EXPW 3565 with grade of “B” or better. Corequisite: EXPW 4752. The teacher candidate will gain important and relevant knowledge and experience related to teaching elementary physical education. A variety of instructional methods for teaching motor skills and movement concepts are included. Candidates will prepare multiple lesson plans using the state standards for K-5 physical education. The edTPA lesson plan template and assessment process is utilized during this course. Understanding of content from this course is assessed on the Praxis II licensing exam. The successful candidate will have a grade of “B” or better to progress to Residency I.

To: EXPW 4722 – Meth of Tchng Elem PE

Prerequisite: Full admission to teacher education, EXPW 2720, EXPW3720 and EXPW 3565 with grade of "B" or better.

Corequisite: EXPW 4752.

Important and relevant knowledge and experience necessary to teach elementary physical education. A variety of instructional methods for teaching motor skills and movement concepts are included. The successful candidate will have a grade of "B" or better to progress to Residency.

xxxxix. From: EXPW 4730 – Assmnt & Eval in EXERC Sci

The purpose of this course is to direct students to select/construct, administer, score, and evaluate tests specific to human performance. Students will be exposed to standardized tests and will explore the uses and development of authentic tests. Each class period consists of lecture and administration of assessments.

To: EXPW 4730 – Assmnt & Eval in EXERC Sci

Select/construct, administer, score, and evaluate tests specific to human movement and performance. Standardized tests will be examined, and the uses and development of authentic tests will be explored.

I. From: EXPW 4731 – Assessment in PE Classroom

Prerequisite: Full admission to the Teacher Education Program. This course provides teacher candidates with multiple opportunities to construct and administer various assessment measures and to interpret data from assessing student performance and learning in physical education. The EdTPA assessment tool – TASK 3 is examined. Use of rubrics, administering standardized fitness tests, administering various skills tests and analyzing the results is included.

To: EXPW 4731 – Assessment in PE Classroom

Prerequisite: Full admission to teacher education.

Multiple opportunities to construct and administer various assessment measures and to interpret data from assessing student performance and learning in physical education. EdTPA assessment tool – TASK 3 is examined. Use of rubrics, administering standardized fitness tests, administering various skills tests, and analyzing the results is included.

li. From: EXPW 4751 – Secondary PE Practicum

Prerequisite: Physical education licensure major; full admission into the teacher education program; completion of EXPW 3720, EXPW 3565 with grade of "B" or better. Co-requisite: EXPW 4712 - Methods of Teaching Secondary Physical

Education. The teacher candidate will have opportunity to observe, assist and teach in the secondary physical education setting. The successful candidate will have a grade of "B" or better to progress to Residency I.

To: EXPW 4751 – Secondary PE Practicum

Prerequisite: Full admission to teacher education, EXPW 2720, EXPW 3720 and EXPW 3565 with grade of "B" or better.

Co-requisite: EXPW 4712

Opportunity to observe, assist and teach in the secondary physical education setting. The successful candidate will have a grade of "B" or better to progress to Residency.

lii. From: 4752 – Elementary PE Practicum

Prerequisite: Physical education licensure major; full admission into the teacher education program; completely of EXPW 3720, EXPW 3565 with grade of "B" or better. Co-requisite: EXPW 4722 - Methods of Teaching Elementary Physical Education. The teacher candidate will observe, assist and teach in the elementary physical education setting. The successful candidate will have a grade of "B" or better to progress to Residency I.

To: EXPW 4752 – Elementary PE Practicum

Prerequisite: Full admission to teacher education, EXPW 2720, EXPW 3720 and EXPW 3565 with grade of "B" or better.

Co-requisite: EXPW 4722

Opportunity to observe, assist and teach in the elementary physical education setting. The successful candidate will have a grade of "B" or better to progress to Residency.

liii. From: EXPW 4760 – Functional Movement

Prerequisite: EXPW 3032 with a grade of B or better. This course is designed to provide understanding of the importance of functional movements in life. Functional movements mimic motor recruitment patterns that are found in everyday life. Students will learn that functional movements are mechanically sound, can help alleviate injury, and elicit a high neuroendocrine response.

To: EXPW 4760 – Functional Movement

Prerequisite: EXPW 3032 with a grade of B or better or permission of instructor. This course is designed to provide understanding of the importance of functional movements in life. Functional movements mimic motor recruitment

patterns that are found in everyday life. Students will learn that functional movements are mechanically sound, can help alleviate injury, and elicit a high neuroendocrine response.

liv. From: EXPW 4900 – Research Methods/Exrc Sci

Prerequisite: Senior Standing and completion of EXPW 4730. This undergraduate course provides a comprehensive introduction to research proposal writing, research methodologies, and foundational research theories and protocols. Students in this course learn about the cyclical nature of applied research and the process of research writing.

To: EXPW 4900 – Research Methods/Exrc Sci

Prerequisite: Senior, completion of EXPW 4730.

This undergraduate course provides a comprehensive introduction to research proposal writing, research methodologies, and foundational research theories and protocols. Students in this course learn about the cyclical nature of applied research and the process of research writing.

lv. From: EXPW 3500 – Phys Activity, Hlth/Sp Pop

Study of effects of physical activity and inactivity on pathophysiology of various health conditions across the lifespan. A wide range of health risks and conditions for different populations will be examined.

To: EXPW 3500 – Phys Activity, Hlth/Sp Pop

Prerequisite: junior or senior Exercise Science major or permission of instructor

Study of effects of physical activity and inactivity on pathophysiology of various health conditions across the lifespan. A wide range of health risks and conditions for different populations will be examined.

lvi. From: EXPW 2900 – Structural Anatomy

Muscles and bones primarily of the upper extremities, lower extremities and spine including anatomical terminology, locations, planes, joints and basic skeletal movement. Does not replace BIOL 2010 or BIOL 2350

To: EXPW 2900 – Structural Anatomy

Muscular & skeletal systems, joints, planes, and lever systems as related to function of anatomy in movement. Application of anatomical knowledge, terminology and concepts to real-world scenarios and movement. Does not replace BIOL 2010 or BIOL 2350.

lvii. From: EXPW 4874 – Professional Seminar I

Prerequisite: Full admission to the teacher education program; completion of EXPW 4712, EXPW 4722, EXPW 4751 and EXPW 4752 with grade of “B” or better in each. Corequisite: EXPW 4871. This seminar is a problem-based learning experience that is directly linked to individual candidate’s teaching and learning experiences in their Methods and Practicum courses. Candidates will use lesson plans and teaching videos to complete a ‘mock’ edTPA project, start to finish, that will be critiqued and scored in house, in preparation for the required assessment during Residency II.

To: **EXPW 4874 – Professional Seminar I**

Prerequisite: Full admission to teacher education EXPW 4712, EXPW 4722, EXPW 4751 and EXPW 4752 with grade of “B” or better in each.

Problem-based learning for teacher candidates to prepare for Residency and edTPA. (Fall Only)

lviii. From: EXPW 4810 – Field Experience

Prerequisite: Successful completion of course requirements in the core requirements. Three to nine hours of credit may be earned. This course may be taken independent of course work as a culminating experience for three hours credit. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned.

To: **EXPW 4810 – Field Experience**

Prerequisite: Successful completion of 24 hours minimum in concentration

One to four credit hours may be earned. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned.

lix. From: EXPW 4820 – Field Experience

Prerequisite: Successful completion of course requirements in the core requirements. Three to nine hours of credit may be earned. This course may be taken independent of course work as a culminating experience for three hours credit. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned.

To: EXPW 4820 – Field Experience

Prerequisite: Successful completion of 24 hours minimum in concentration

One to four credit hours may be earned. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned.

ix. From: EXPW 4830 – Field Experience

Prerequisite: Successful completion of course requirements in the core requirements. Three to nine hours of credit may be earned. This course may be taken independent of course work as a culminating experience for three hours credit. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned.

To: EXPW 4830 – Field Experience

Prerequisite: Successful completion of 24 hours minimum in concentration

One to four credit hours may be earned. Participation in on-the-job experiences will be provided in a wide range of hosting agencies, institutions, and clinics. Requirements for course completion will vary depending on the number of credit hours to be earned.

lxi. From: EXPW 4995 – Sport Science and Performance

Prerequisites: Major in Exercise Science and Concentration in Sport Performance, senior standing and completion of EXPW 4730 with grade of 'B' or better. This course is directed to methods of research and practice related to sport science and sport performance and review of pertinent primary literature in the field.

To: EXPW 4995 – Sport Science and Performance

Prerequisites: Exercise Science major with concentration in Sport Performance, senior standing, EXPW 4730 with grade of 'B' or better.

Methods of research and practice related to sport science and sport performance including review of pertinent primary literature in the field.

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

D. New Concentration

i. Exercise Science

Justification: many times, students want to come in to the department to specifically study exercise science. Until now, they have had to declare one of the other concentrations as their area of study. We feel that a concentration in exercise science is appropriate and long over-due to attract students to Tech, but also offer them a choice that conforms to the desired career path. The exercise science concentration will provide students with multiple opportunities to study in areas within exercise science that are most interesting to them while providing a rigorous and well-rounded education.

Now that the name of the department is Exercise Science, this concentration addition will help with branding and marketing.

FINANCIAL IMPLICATIONS: NONE

EFFECTIVE DATE: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

E. Course Change

EXPW 3330 – First-aid and CPR Instructor Training (lec2, cr 2)

Prerequisite: Must have current American Red Cross basic level certification or equivalent.

Instructor candidates learn to teach American Red Cross first-aid and CPR. Use of course materials, how to conduct training and evaluation of participant progress is examined.

Explanation

This course was in the inventory until 2017. It was not being taught regularly because there was not sufficient time in the program of study for teacher licensure candidates and few others showed interest in becoming a certified instructor. With recent changes in requirements from the State level, the current program of study needs to be updated and this course will fit in nicely and benefit the teacher candidates as they go into the teaching profession.

JUSTIFICATION: We seek to revive a course and add it to the teacher licensure program of study

FINANCIAL IMPLICATIONS: NONE

EFFECTIVE DATE: Fall 2024

F. Curriculum Change

i. Changes to Pre-AT program of study

JUSTIFICATION: To streamline advising, reduce the need for substitutions and provide a clearer path to completion for students.

FINANCIAL IMPLICATIONS: NONE

EFFECTIVE DATE: FALL 2024

a. Deletions:

- i. EXPW 2130 – Concepts of Comprehensive Health. (Credit 3).

Justification: Students can take EXPW 2015 as a gen ed option to satisfy this health component. We need 3 more hours for directed electives required for professional programs pre-requisites.

b. Changes:

- i. From:

EXPW 1021 – Connections to Exercise Science

To:

EXPW 1021 – Connections to Exercise Science or equivalent

- ii. From:

EXPW 1022 – Introduction to Exercise Science

To:

EXPW 1022 – Introduction to Exercise Science or equivalent

- iii. From:

EXPW 1110 – Introduction to Athletic Training

To:

EXPW 1110 – Introduction to Athletic Training or equivalent

Justification: To streamline advising and eliminate the need for substitutions specifically for transfer students and those who change their major or concentration.

- iv. From:

Select a social/behavioral science elective from the following list: ANTH - 1100, ECON 2010, ECON 2020, GEOG 1012, POLS 1030 or SOC 1010.

To:

Any university approved social/behavioral science course(s).

Justification: To eliminate the need for subs if a student takes any other approved SBS course.

- v. From:
Select a humanities/fine arts elective from the following list: PHIL 1030, HIST 2310, HIST 2320, THEA 1030, MUS 1030, ART 1035, ENGL 2235 or ENGL 2330.

To:

Any university approved humanities/fine arts course(s).

Justification: To eliminate the need for subs if students take any other approved HFA course.

- vi. From:
Elective (generic). [5 credits] To:

Directed Electives [8 credits]

(*Deleting the 2130 course gives 3 hours to add here)

Justification: This change helps students stay on the 120-hour program AND meet the pre-requisites or professional programs.

- vii. From:

Directed Electives: CHEM 1110 or CHEM 1010, PHYS 2010, EXPW 4032, EXPW 4042

To:

Directed Electives: CHEM 1110 or CHEM 1010 or CHEM 1210, PHYS 2010 or PHYS 1310, EXPW 4032, EXPW 4042

Justification: Students who change into PAT or transfer in may have other courses that fill up the 5 general or directed electives currently in the program, which can lead to students not having enough available hours for financial aid eligibility. Will also reduce the need for substitutions.

G. Update to Pre-Physician Assistant Degree Program

- i. From:

EXPW 1021 – Connections to Exercise Science

To:

EXPW 1021 – Connections to Exercise Science or equivalent

- ii. From:

EXPW 1022 - Introduction to Exercise Science

To:

EXPW 1022 - Introduction to Exercise Science or equivalent

- iii. Addition:

We request to add Biology as a minor for students with the Pre-PA concentration because there are 6 biology classes required in this concentration giving students 24 biology credits.

Justification: Proposed updates will offer more options to students as well as eliminate need for substitution forms for students who transfer or change majors/concentrations.

Financial Implications: None

Effective Date: Fall 2024

H. Update Pre-Physical Therapy Degree Plan

i. From:

EXPW 1021 – Connections to Exercise Science

To:

EXPW 1021 – Connections to Exercise Science or equivalent

ii. From:

EXPW 1022 – Introduction to Exercise Science

To:

EXPW 1022 – Introduction to Exercise Science or equivalent

iii. From:

EXPW 1130 – Introduction to Physical Therapy

To:

EXPW 1130 – Introduction to Physical Therapy or equivalent

Justification: Adding “equivalent” to each will help eliminate need for substitution forms for students who transfer or change majors into the Pre-PT concentration.

iv. From:

Directed electives 28 cr (including 8 cr GENS)

To:

Directed electives 30 cr (including 8 cr GENS)

Justification: This change allows for greater flexibility in choosing prerequisite courses depending on which professional graduate program a student plans to attend.

v. Deletion

i. HEC 1030 – Introduction to Nutrition (cr 2) or HEC 2020 – Nutrition (cr 3)

Justification: Nutrition is not a prerequisite for any professional graduate program of Physical Therapy. Taking this off the program of study will allow students to focus on courses that must complete in order to apply.

vi. Deletions from directed electives:

- a. EXPW 2200 – Leadership in Exercise Science (cr 3)
- b. EXPW 3410 – Motor Development (cr 3)

Justification: Remove from directed elective list, as neither of these courses satisfy prerequisites for any professional graduate program of Physical Therapy and taking them can put a student behind in finishing the prerequisites needed to apply.

vii. Addition to directed electives:

- a. HEC 2220 – Medical Terminology for Human Sciences (cr 1)
- b. HIMT 1300 – Medical Terminology (cr 3)

Justification: Pre-PT students must take a medical terminology course as a prerequisite for professional graduate programs. Adding these to the directed elective list provides options for students.

I. Update Sport Administration Degree Plan

Justification: Proposed updates will offer more options to students within the Sport Administration area of study as well as provide opportunities to direct course of study through electives and directed electives within the concentration. This is believed to assist students who plan to pursue a graduate degree in Sport Management as well as make students more career ready upon graduation.

i. New Courses

- a. EXPW 2235 – Chronicle of Sport
- b. EXPW 3235 – Sport Marketing
- c. EXPW 4235 – Sport Law
- d. EXPW 4275 – Sport Finance

ii. Changes

a. From:

EXPW 3170 – Motor Learning

To:

EXPW 3170 or guided elective

b. From:

EXPW 3410 – Lifespan Motor Development To:

EXPW 3410 or guided elective

c. From:

ECON 2010 –
To:
Guided elective

d. From:
ECON 2020 –
To:
Guided Elective

e. From:
ACCT 3720 –
To:
Guided Elective

f. From:
BMGT 3510
To:
BMGT 3510 or guided elective

g. From:
FIN 3210 –
To:
EXPW 4275 – Sport Finance or FIN 3210

h. From:
LAW 2810 –
To:
EXPW 4235 – Sport Law or LAW 2810

i. From:
MKT 3400 –
To:
EXPW 3235 – Sport Marketing or MKT 3400

j. From:
HIST 4470-4479 –
To:
EXPW 2235 – Chronicle of Sport or HIST 4470-4479

iii. Justification: Adding the four new courses to the inventory gives student more options. Before these changes a minor in business is built into the degree plan. These changes will provide students the opportunity to take those same courses for the minor or not and tailor their program toward personal career goals such as a route more toward high school athletic director and/or coaching. These changes may also help alleviate the need for substitutions.

a. Guided Electives:

From:

EXPW 3091, EXPW 3092, EXPW 3180, EXPW 4032, EXPW 4730, EXPW 4900, JOUR 2200, JOUR 2220, JOUR 3400

To:

EXPW 3032, EXPW 3070, EXPW 3091, EXPW 3092, EXPW 3180, EXPW 3200, EXPW 3300, EXPW3301, EXPW 3420, EXPW 3550, EXPW 4032, EXPW 4042, EXPW 4730, EXPW 4760, EXPW 4900, JOUR 2200, JOUR 2220, JOUR 3400, ACCT 3720, ECON 2010, ECON 2020

J. Physical education teacher licensure program of study changes

i. Course Additions

- a. EXPW 2720 – Lesson Planning 101 (lec 2, cr 2)
- b. EXPW 3330 – First-Aid and CPR Instructor Training (lec 2, cr 2)
- c. EXPW 4840 – Physical Education Field Experience (lab 2, cr 1)
- d. EXPW 4883 – Residency (clinical 10, cr 10)
- e. EXPW 3660 – Curriculum in Physical Education (lec 2, cr 2)
- f. Elective – 1 credit

ii. Program Changes

a. From:

Social Behavioral Science

To:

EXPW 2015 – Concepts of Health & Wellness

Justification: EXPW 2015 is a choice in this Gen Ed requirement. EXPW 2015 is a prerequisite to EXPW 3132, so directing this keeps students on track.

b. From:

EXPW 1021 – Connections to EXPW

To:

EXPW 1021 – Connections to Exercise Science or equivalent.

Justification: Streamline transfer and change of major student programs of study

c. From:

EXPW 1022 – Introduction to EXPW

To:

EXPW 1022 – Introduction to Exercise Science

Justification: Streamline transfer and change of major student programs of study

d. From:

EXPW 4881 – Residency II (cr 10)

To:

EXPW 4883 – Residency (clinical 10, cr 10)

Justification: Changes at the State level warrant moving from year-long residency to once semester.

iii. Course Deletions

a. EXPW 4871 – Residency I (Cr 5)

Justification: Change in requirements at State level.

b. EXPW 2150 or EXPW 2200 (lec 3, cr 3)

Justification: EXPW 2150 content is not directly relevant for physical education teacher preparation and EXPW 2200 can be taken as an elective to allow for putting in a needed field experience class and adding back EXPW 3660.

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

9. Earth Sciences

A. New Concentration – Planetary Geology

The Department of Earth Sciences proposes to add a new Geoscience concentration in **Planetary Geology**. Most of the curricula in the new concentration are already offered, and no additional financial resources are requested. The concentration is interdisciplinary, and students selecting this option will also complete the classes necessary to receive a minor in Astronomy.

JUSTIFICATION: Interest in space science and planetary geology is expected to increase over the next decade, especially with crewed missions to the Moon and Mars. The addition of a planetary geology concentration will allow students to complete classic geology coursework as well as coursework focused on remote sensing and orbital observation. Graduates will be prepared to enter the workforce as geologists studying the Earth, Moon, Mars, and other rocky bodies in the Solar System.

PEER COMPARISION: The University of Tennessee, Knoxville offers a [B.S. in Geology and Environmental Studies with a concentration in Planetary Geoscience](#). At present, this is the only comparable program in the state.

FINANCIAL IMPACT: No additional resources are needed for the creation of this new concentration.

EFFECTIVE DATE: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

10. Electrical Engineering

A. Course Deletions

- i. ECE 3300 - Electronics I
Lec. 3. Credit 3.

Justification: This has been replaced by a new course.

B. Course Changes

- i. ECE 1000

From:

ECE 1000 - Explorations in Electrical and Computer Engineering
Lec. 2. Lab. 3. Credit 3.

Prerequisite: C or better in MATH 1910 (MATH 1910 may be taken concurrently).
Introduction to the profession, college, department, and program. Survey of ECE technical knowledge and tools crucial in early ECE courses with a focus on critical thinking. Introduction to engineering design, teamwork, and technical communication.

To:

ECE 1000 - Explorations in Electrical and Computer Engineering
Lec. 2. Lab. 3. Credit 3.

Prerequisite: C or better in **either MATH 1904 or MATH 1910 (MATH 1904 or MATH 1910 may be taken concurrently).**

Introduction to the profession, college, department, and program. Survey of ECE technical knowledge and tools crucial in early ECE courses with a focus on critical thinking. Introduction to engineering design, teamwork, and technical communication.

- ii. ECE 2140

From:

ECE 2140 - Introduction to Digital Systems
Lec. 3. Lab. 3. Credit 4.

Prerequisite: C or better in MATH 1910 (MATH 1910 may be taken concurrently).
Analysis and design of digital systems. Number systems; Boolean algebra; combinational and sequential logic circuits; state machine design; register-transfer level design; memory organization; and introduction to digital hardware design and field-programmable gate arrays.

To:

ECE 2140 - Introduction to Digital Systems

Lec. 3. Lab. 3. Credit 4.

Prerequisite: C or better in either MATH 1904 or MATH 1910 (MATH 1904 or MATH 1910 may be taken concurrently).

Analysis and design of digital systems. Number systems; Boolean algebra; combinational and sequential logic circuits; state machine design; register-transfer level design; memory organization; and introduction to digital hardware design and field-programmable gate arrays.

iii. ECE 4020 (5020)

i. From:

ECE 4020 (5020) - Digital Signal Processing

Lec. 3. Credit 3.

Prerequisite: C or better in either ECE 2110 or ECE 2140, C or better in either ECE 3020 or ECE 3330, and C or better in ECE 3130.

Theory and practice of discrete-time signals and systems, A/D and D/A conversion, filter design, DSP Architecture and implementation, programming, DSP applications.

To:

ECE 4020 (5020) - Digital Signal Processing

Lec. 3. Credit 3.

Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140, C or better in either ECE 3020 or ECE 3330, and C or better in ECE 3130.

Theory and practice of discrete-time signals and systems, A/D and D/A conversion, filter design, DSP Architecture and implementation, programming, DSP applications.

iv. ECE 4140 (5140)

From:

ECE 4140 (5140) - Embedded System Design

Lec. 2. Lab. 3. Credit 3.

Prerequisite: C or better in either ECE 2110 or ECE 2140, C or better in ECE 3130.

Basic hardware and software concepts in the analysis and design of embedded systems, peripheral interfaces and performance analysis with hands-on design project.

To:

ECE 4140 (5140) - Embedded System Design

Lec. 2. Lab. 3. Credit 3.

Prerequisite: C or better in CSC 1310, C or better in either ECE 2110 or ECE 2140, C or better in ECE 3130.

Basic hardware and software concepts in the analysis and design of embedded systems, peripheral interfaces and performance analysis with hands-on design

project.

v. ECE 4961

From:

ECE 4961 - Capstone Design I

Lec. 2. Lab. 4. Credit 3.

Prerequisite: C or better in either ECE 2110 or ECE 2140; C or better in either ECE 3050 or both of ECE 3060 and ECE 3300; C or better in ECE 3130; C or better in either ECE 3010 or ECE 3330; C or better in ECE 3920; C or better in MATH 2010; C or better in MATH 3470; Senior Standing; and C or better in any of MATH 2110, MATH 2610, or CSC 2700.

The first in a sequence of two capstone design project courses. Student teams will complete a comprehensive system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, subsystem development, testing, weekly reporting, documentation, and oral presentation.

To:

ECE 4961 - Capstone Design I

Lec. 2. Lab. 4. Credit 3.

Prerequisite: **C or better in CSC 1310**, C or better in either ECE 2110 or ECE 2140; C or better in either ECE 3050 or both of ECE 3060 and ECE 3300; C or better in ECE 3130; C or better in either ECE 3010 or ECE 3330; C or better in ECE 3920; C or better in MATH 2010; C or better in MATH 3470; Senior Standing; and C or better in any of MATH 2110, MATH 2610, or CSC 2700.

The first in a sequence of two capstone design project courses. Student teams will complete a comprehensive system design project. Teamwork, leadership, project planning and management, specification, budgeting, design review, subsystem development, testing, weekly reporting, documentation, and oral presentation.

Justification - ECE 1000 and ECE 2140: Allow either variant of the Calculus I course.

Justification - ECE 4020, ECE 4140, and ECE 4961: Additional background in programming is needed in these courses. This change was planned as a final step in the transition to the new curricula.

C. Curriculum Changes: BSEE Vehicle Engineering Concentration

i. Replace VE 4100 with VE 4102

ii. Replace VE 4200 with VE 4202

Justification: The replacement courses have prerequisites appropriate to the major.

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

11. Agriculture

A. Removal of AGRN 3000 (soils and the Environment) from the Pre-Vet curriculum to be replaced by AGRN 2400 and AGRN 2415 (Introduction to Soils and Soils Lab)

i. Course Changes

From: AGRN 3000 – Soils and the Environment as a Pre-Veterinary Science requirement

To: AGRN 2400 and AGRN 2415 – Introduction to Soils and Soils Lab as a Pre-Veterinary Science requirement

Justification: AGRN 2400 and the associate lab AGRN 2415 are already approved substitutions for the 4-credit hour AGRN 3000 soils lecture and lab. AGRN 3000 is no longer taught and has been replaced by AGRN 2400 and 2415. This curriculum change is to formalize that substitution into the curriculum.

Effective Date: Fall 2024

Financial Impact: None

B. Agriculture Education (AGED) Curriculum Sheet Modifications

Justification: The following course deletions and additions are the result of the College of Education at TN Tech eliminating the fall student teaching residency.

These proposed changes will enable AGED students to complete an additional 12 credits of upper-level elective courses in the School of Agriculture.

i. This includes deleting the one credit elective requirement, AGED 4871 (residency) and 4872 (seminar).

ii. Additional changes reflect the need for more diversity in the AGED curriculum and includes replacing ANS 3130 (Animal Genetics) with ANS 2110 (Livestock Evaluation),

iii. the deletion of HORT 4410 (Nursery Production & Mgt),

iv. the addition of AGR 3000 (Leadership & Service),

v. the deletion of MATH 1130 and addition of MATH 1710 as a second option.

vi. Lastly, the AGR acronym has been added where necessary,

vii. AGED 1600, a new School of Agriculture core course, and a two-credit AGED 4950 Special Topics to be completed in conjunction with student/apprentice teaching.

These proposed changes will enable AGED students to complete an additional 12 credits of upper-level elective courses in the School of Agriculture.

Effective Date for All Changes: Fall 2024

Financial Impact: None at the university level. None at the school level.

C. Agricultural Communication (AGCM) Curriculum Sheet Modifications

Justification: The following course deletions and additions are the result of an advisory group consisting of current Agriculture Communication students, agricultural industry leaders representing TN Farmers COOP, TN Farm Bureau, TN Tech alumni, a phone consultation with Dr. Ricky Telg, Agriculture Communications faculty advisor from the University of Florida, and a consultant from the University of Georgia College of Agriculture and Environmental Sciences.

i. MATH 1630 is being replaced by MATH 1530, a more appropriate option for agriculture communications students. CHEM 1020 is being deleted. AGET 1600 is now a School of Agriculture core course. PC 3500 is being replaced with COMM 2090. AGED 3010 and AGED 4150 are no longer being offered and AGED 4200 is designed for agriculture education students; therefore, these three courses are being deleted from the program.

ii. A new capstone course – AGCM 4950 is being added so students have an opportunity to create more products to enhance their portfolios. AGCM 4860 is being deleted to make room for more coursework in COMM and JOUR – (COMM 3620, JOUR 3460, JOUR 3480, and JOUR 3420 or JOUR 3470 or JOUR 3500.)
Prerequisite: Junior Standing

iii. Lastly, the AGHE acronym has been replaced with AGR, as highlighted in red.

These proposed changes will better prepare AGCM students for careers and graduate school.

Effective Date For All Changes: Fall 2024

Financial Impact: None at the university level. None at the school level.

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

12. Manufacturing and Engineering Technology

A. New Course Proposal

i. Course Name: MET 4720 – Senior Projects for Smart Manufacturing

ii. Course Credit Hours: 3

iii. Contact Hours Per Week: 4 (Lecture:2 and Lab: 2)

iv. Catalog Description: This course is the capstone experience, which requires both teamwork and individual skills in identifying and solving a smart manufacturing problem. It requires the application of design, manufacturing, analysis, project management plan, and public presentation of results.

v. Pre-requisite(s): MET 3620

vi. Co-requisite(s): MET 4520

Justification: Adding a capstone component into the engineering technology curriculum is a must.

Impact on Faculty: Providing a culminated smart manufacturing experience to graduation smart manufacturing engineering technology concentration students.

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

B. Addition of Concentration in Smart Manufacturing

Justification:

i. Engineering Technology is a broad engineering discipline consisting of many sub-disciplines. Manufacturing is among one of the well-established ones. There is a need for more manufacturing applied engineering graduates possessing specialized knowledge.

ii. The Department of Manufacturing & Engineering Technology is proposing a new concentration in Smart Manufacturing to provide current and prospective students with the opportunity to expand their knowledge base in coursework specific to manufacturing, while maintaining a base knowledge of all other engineering technology sub-disciplines.

Financial Impact – None (Support for additional engineering technology adjuncts is requested for three years.)

iii. Student must complete eighteen (18) semester hours of coursework:
Required (18) semester hours

- a. MET 3620 Industrial IoT Systems
- b. MET 4000 Advanced Foundry Technology
- c. MET 4320 Mixed Reality in Manufacturing
- d. MET 4420 Introduction to Additive Manufacturing
- e. MET 4520 Autonomous Robots in Manufacturing
- f. MET4720 Senior Projects for Smart Manufacturing

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

13. Music

A. Course Changes:

- i. Add corequisite requirement of MUS 1140 – Harmony II for MUS 1150 - Aural Techniques II course.
- ii. Add corequisite requirement of MUS 2110 – Harmony III for MUS 2120 - Aural Techniques III course.

Justification – This is a typo in the catalogue. All aural technique courses should have a corresponding Harmony corequisite. Aural Techniques I/IV are correct in the catalogue, but Aural Techniques II/III are missing these corequisites.

Effective: Fall 2024

Financial Impact: None

B. Course Change:

- i. Change the name of MUS 1025 - Wind Ensemble to Chamber Winds.

Justification - The School of Music would like to change the name of Wind Ensemble to Chamber Winds. Since COVID, the scope of this ensemble has shifted, providing students with a chamber ensemble experience rather than a large ensemble experience. Since our Concert Band (MUS 1045) and Symphony Band (MUS 1040) are large ensembles, trimming down the instrumentation of our Wind Ensemble gives students a new experience and challenge. With one-person per part, Chamber Winds creates a much thinner texture, requiring better execution from each player. The name, Chamber Winds, is more closely associated with this type of instrumentation.

Effective: Fall 2024

Financial Impact: None

C. Curriculum Changes

- i. BM in Music Education - Instrumental/General Music, K-12 Licensure Concentration
AND
- ii. BM in Music Education - Vocal/General Music, K-12 Licensure Concentration

a. Course Deletions:

- i) MUED 4871 - Residency I (5 credits)

Justification: The state of Tennessee has eliminated the first semester of student teaching for Music Education majors.

b. Course Additions:

- i) MUED 3811 - Practicum in Music Education (3 credits)

Justification- This course used to be part of the BM in Music Education degree program but was removed when the state of Tennessee added a second semester of student teaching approximately 15 years ago. Now that Residency I has been removed, we would like to return this course to the degree program. This course is still listed in the University catalogue.

This course is designed to give music education candidates practicum experience at several hand-picked schools. The instructor of record will coordinate 3 different practicum experiences (K-5, middle school, and high school) during the fall semester of their senior year. This course gives students supervised work experiences in public schools, translating theories they learned in music education courses into practical application.

- ii) MUED 4850 - Workshop in Music Education (2 credits)

Justification- This course used to be part of the BM in Music Education degree program, but was removed when the state of Tennessee added a second semester of student teaching approximately 15 years ago. Now that Residency I has been removed, we would like to return this course to the degree program. This course is still listed in the University catalogue.

This course is designed to give music education candidates a lab ensemble experience during the fall semester of their senior year. Participants will be required to prepare and execute a rehearsal/music class in 4 different areas: general music, band rehearsal, choir rehearsal, and orchestra rehearsal. Enrolled students will act as the teacher, and their peers (sophomore/juniors/senior music education candidates) will act as the students. Students will be playing secondary instruments, replicating middle school level abilities, and will provide the teacher with opportunity to provide real-world advice and feedback.

Course Changes: None

Effective: Fall 2024

Financial Impact: None

D. Curriculum Changes

- i. Change the Ensemble of Record Policy for BM in Music Education majors and
Guitar:
University Choirs, University Jazz Bands, **or Marching Band**
Wind/Percussion:
Fall Semester – **Marching Band (first 3 years), University Jazz Bands, Chamber Winds, or Orchestra.**
- ii. BM in Music Performance Majors. Changes notated in bold.
 - a. Lower Division (Freshman and Sophomore)
 - i) Guitar:
University Choirs, University Jazz Bands, **or Marching Band**
 - ii) Wind/Percussion:
Fall Semester – **Marching Band (first year), University Jazz Bands, Chamber Winds, or Orchestra.**

Justification – Our BM degrees require students to take ensembles nearly every semester. While the School of Music offers a variety of ensembles, the students are not given the freedom to choose which ensembles fulfil their degree requirements. Instead, these ensembles are mandated based on their concentration and instrument of study. Unfortunately, these policies are not in the best interest of students and create personnel issues. Further, upon examining other music programs around the state, our Ensemble of Record Policy is vastly different from other programs, hurting our recruitment of certain students. For example, our Instrumental Music Education majors are unable to enroll in Jazz Band, Wind Ensemble, or Orchestra to fulfil their degree

requirements. Instead, they must enroll in Marching Band every fall semester and Concert Band or Symphony Band every spring semester. These limitations diminish the student experience and does not adequately prepare them for the work force.

Effective: Fall 2024

Financial Impact: None

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

14. Foreign Languages

Several of these additional program requirements are already options within the general education core. Rather than requiring students to take specific courses within the general education core, now students will have more options when satisfying the humanities/fine arts general education requirements.

The 6 hours of HIST and 3 hours of ENGL currently required go beyond what is required in the general education core. These 9 credit hours will be replaced with elective credit.

These changes will eliminate redundancies, reduce the number of substitutions, streamline our curriculum, provide majors with more humanities/fine arts options, and remove bottlenecks for TN Transfer Pathway students.

A. & B. German Curricular change

FROM:

Additional Program Requirements

Complete ALL of the following Courses:

ART1035 - Introduction to Art

OR FREN2510 - French Culture & Civilization

OR MUS1030 - Music Appreciation

OR PHIL1030 - Intro to Philosophy

OR SPAN2510 - Spanish Culture & Civ

OR SPAN2550 - Latin Am Culture & Civ

OR THEA1030 - Intro to Theater

HIST2210 - Early Western Civilization

OR HIST2310 - Early World History

HIST2220 - Modern Western Civilization

OR HIST2320 - Modern World History

COMM2025 - Fundamentals of Communication
UNIV1020 - First-Year Connections

Humanities/Fine Arts electives: ART 1035, FREN 2510, MUS 1030, SPAN 2510, SPAN 2550,
THEA 1030 or PHIL 1030.

Literature Requirement

Earn at least 6 credits from the following:

ENGL2130 - Topics in American Literature

OR ENGL2235 - Topics in British Literature

OR ENGL2330 - Topics in World Literature

Take two literature courses from ENGL 2130, ENGL 2235, or ENGL 2330.

TO:

~~Additional Program Requirements~~

~~ART1035 – Introduction to Art~~

~~OR FREN2510 – French Culture & Civilization~~

~~OR MUS1030 – Music Appreciation~~

~~OR PHIL1030 – Intro to Philosophy~~

~~OR SPAN2510 – Spanish Culture & Civ~~

~~OR SPAN2550 – Latin Am Culture & Civ~~

~~OR THEA1030 – Intro to Theater~~

~~HIST2210 – Early Western Civilization~~

~~OR HIST2310 – Early World History~~

~~HIST2220 – Modern Western Civilization~~

~~OR HIST2320 – Modern World History~~

~~COMM2025 – Fundamentals of Communication~~

~~UNIV1020 – First-Year Connections~~

~~Humanities/Fine Arts electives: ART 1035, FREN 2510, MUS 1030, SPAN 2510, SPAN 2550,
THEA 1030 or PHIL 1030.~~

~~Literature Requirement~~

~~Earn at least 6 credits from the following:~~

~~ENGL2130 – Topics in American Literature~~

~~OR ENGL2235 – Topics in British Literature~~

~~OR ENGL2330 – Topics in World Literature~~

~~Take two literature courses from ENGL 2130, ENGL 2235, or ENGL 2330.~~

Apply to: Foreign Languages, German Option 1, B.A.

Foreign Languages, German Option 2, B.A.

Justification: These adjustments should offer our students several benefits. Our majors will have more options when it comes to humanities/fine arts electives. Faculty have also noticed a decline in the number of majors who intend to continue their language and literature studies in graduate school, so these changes align our curriculum with the prevailing career goals of our students. Most importantly, this change will address a significant bottleneck that TN Transfer Pathway students experience, especially when they seek licensure. These proposed changes have been discussed with both History and English.

Financial Impact: none

Effective date: Fall 2024

C. & D. French Curricular Changes

FROM:

Additional Program Requirements

Complete ALL of the following Courses:

ART1035 - Introduction to Art

OR GERM2520 - German Culture & Civilization

OR MUS1030 - Music Appreciation

OR PHIL1030 - Intro to Philosophy

OR SPAN2510 - Spanish Culture & Civ

OR SPAN2550 - Latin Am Culture & Civ

OR THEA1030 - Intro to Theater

HIST2210 - Early Western Civilization

OR HIST2310 - Early World History

HIST2220 - Modern Western Civilization

OR HIST2320 - Modern World History

COMM2025 - Fundamentals of Communication

UNIV1020 - First-Year Connections

Humanities/Fine Arts electives: ART 1035, GERM 2520, MUS 1030, SPAN 2510, SPAN 2550, THEA 1030 or PHIL 1030.

Literature Requirement

Earn at least 6 credits from the following:

ENGL2130 - Topics in American Literature

OR ENGL2235 - Topics in British Literature

OR ENGL2330 - Topics in World Literature

Take two literature courses from ENGL 2130, ENGL 2235, or ENGL 2330.

TO:

~~Additional Program Requirements~~

~~Complete ALL of the following Courses:~~

~~ART1035 – Introduction to Art~~

~~OR GERM2520 – German Culture & Civilization~~

~~OR MUS1030 – Music Appreciation~~

~~OR PHIL1030 – Intro to Philosophy~~

~~OR SPAN2510 – Spanish Culture & Civ~~

~~OR SPAN2550 – Latin Am Culture & Civ~~

~~OR THEA1030 – Intro to Theater~~

~~HIST2210 – Early Western Civilization~~

~~OR HIST2310 – Early World History~~

~~HIST2220 – Modern Western Civilization~~

~~OR HIST2320 – Modern World History~~

~~COMM2025 – Fundamentals of Communication~~

~~UNIV1020 – First Year Connections~~

~~Humanities/Fine Arts electives: ART 1035, GERM 2520, MUS 1030, SPAN 2510, SPAN 2550, THEA 1030 or PHIL 1030.~~

~~Literature Requirement~~

~~Earn at least 6 credits from the following:~~

~~ENGL2130 – Topics in American Literature~~

~~OR ENGL2235 – Topics in British Literature~~

~~OR ENGL2330 – Topics in World Literature~~

~~Take two literature courses from ENGL 2130, ENGL 2235, or ENGL 2330.~~

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

Justification: These adjustments should offer our students several benefits. Our majors will have more options when it comes to humanities/fine arts electives. Faculty have also noticed a decline in the number of majors who intend to continue their language and literature studies in graduate school, so these changes align our curriculum with the prevailing career goals of our students. Most importantly, this change will address a significant bottleneck

that TN Transfer Pathway students experience, especially when they seek licensure.

These proposed changes have been discussed with both History and English.

Financial Impact: none

Effective date: Fall 2024

E. & F. Spanish Curricular Changes

FROM:

Additional Program Requirements

Complete ALL of the following Courses:

ART1035 - Introduction to Art

OR FREN2510 - French Culture & Civilization

OR GERM2520 - German Culture & Civilization

OR MUS1030 - Music Appreciation

OR PHIL1030 - Intro to Philosophy

OR THEA1030 - Intro to Theater

HIST2210 - Early Western Civilization

OR HIST2310 - Early World History

HIST2220 - Modern Western Civilization

OR HIST2320 - Modern World History

COMM2025 - Fundamentals of Communication

UNIV1020 - First-Year Connections

Literature Requirement

Earn at least 6 credits from the following:

ENGL2130 - Topics in American Literature

OR ENGL2235 - Topics in British Literature

OR ENGL2330 - Topics in World Literature

Take two literature courses from ENGL 2130, ENGL 2235, or ENGL 2330.

TO:

~~Additional Program Requirements~~

~~ART1035 - Introduction to Art~~

~~OR FREN2510 - French Culture & Civilization~~

~~OR GERM2520—German Culture & Civilization~~
~~OR MUS1030—Music Appreciation~~
~~OR PHIL1030—Intro to Philosophy~~
~~OR THEA1030—Intro to Theater~~
~~HIST2210—Early Western Civilization~~
~~OR HIST2310—Early World History~~
~~HIST2220—Modern Western Civilization~~
~~OR HIST2320—Modern World History~~
~~COMM2025—Fundamentals of Communication~~
~~UNIV1020—First-Year Connections~~

Literature Requirement

~~Earn at least 6 credits from the following:~~

~~ENGL2130—Topics in American Literature~~
~~OR ENGL2235—Topics in British Literature~~
~~OR ENGL2330—Topics in World Literature~~

~~Take two literature courses from ENGL 2130, ENGL 2235, or ENGL 2330.~~

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

Justification: These adjustments should offer our students several benefits. Our majors will have more options when it comes to humanities/fine arts electives. Faculty have also noticed a decline in the number of majors who intend to continue their language and literature studies in graduate school, so these changes align our curriculum with the prevailing career goals of our students. Most importantly, this change will address a significant bottleneck that TN Transfer Pathway students experience, especially when they seek licensure.

These proposed changes have been discussed with both History and English.

Financial Impact: none

Effective date: Fall 2024

G. Minor Curriculum Change

The Department of Foreign Languages seeks to allow students to choose between FREN 3020 and 3200 for their second upper-division French course in French minor course of study.

From:

- FREN 1010: Elementary French 1 (3 credit hours; no prerequisite)

- FREN 1020: Elementary French 2 (3 credit hours; prerequisite FREN 1010)
- FREN 2010: Intermediate French 1 (3 credit hours; prerequisite FREN 1020)
- FREN 2020: Intermediate French 2 (3 credit hours; prerequisite FREN 2010)
- FREN 3010: Written Communication-French (3 credit hours; prerequisite FREN 2020)
- FREN 3020: Oral Communication in French (3 credit hours; prerequisite FREN 2020)

To:

- FREN 1010: Elementary French 1 (3 credit hours; no prerequisite)
- FREN 1020: Elementary French 2 (3 credit hours; prerequisite FREN 1010)
- FREN 2010: Intermediate French 1 (3 credit hours; prerequisite FREN 1020)
- FREN 2020: Intermediate French 2 (3 credit hours; prerequisite FREN 2010)
- FREN 3010: Written Communication-French (3 credit hours; prerequisite FREN 2020)
- **FREN 3020: Oral Communication in French (3 credit hours; prerequisite FREN 2020)**
OR
FREN 3200: Business French (3 credit hours; prerequisite FREN 3010)

JUSTIFICATION: Including FREN 3200 as an option in the minor provides enhanced opportunities for experiential learning based on French business culture in the state of Tennessee without requiring minors to complete additional course hours. Adding FREN 3200 as an option to the current requirements for a minor will make students aware of the international opportunities that exist for them here in Tennessee due to France's strong level of foreign direct investment in the state¹.

EFFECTIVE DATE: Fall 2024

FINANCIAL IMPACT: None

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

15. Nursing

The WHSON Curriculum Committee recently reviewed all courses in the BSN concentration to assess appropriateness of co- and pre-requisites. In the process of review we found several

catalog errors and also revised some co-and pre-requisites. The attached table outlines all of the changes and/or corrections.

Effective Date: Fall 2024

Course	Current Pre-Requisites	Current Co-Requisites	Recommendations
NURS 3290 Pathophysiological Processes I			Admission to Upper Division
NURS 3240 Pharm. Concepts in Nurs. I	NURS 3290 (Patho I)		Pre OR Co- NURS 3290 (Patho I)
NURS 3250 M/S I	NURS 3240 3260, 3261, 3270 3271	NURS 3280	<u>Co</u> -NURS 3280 <u>Pre</u> -NURS 3260, 3261, 3270, 3271 <u>Co OR Pre</u> -NURS 3240, 3290
NURS 3280 M/S I Lab	NURS 3240, 3260, 3261, 3270, 3271	NURS 3250	<u>Co</u> -NURS 3250 <u>Pre</u> -NURS 3260, 3261, 3270, 3271 <u>Co OR Pre</u> - NURS 3240, 3290
NURS 3370 Mental Health	NURS 3240, 3260, 3261, 3270, 3271	NURS 3371	<u>Co</u> : NURS 3371 <u>Pre</u> : NURS 3260, 3261, 3270, 3271 <u>Co OR Pre</u> : NURS 3290, 3240
NURS 3371 Mental Health Lab	NURS 3240, 3260, 3261, 3270, 3271	NURS 3370	<u>Co</u> : NURS 3370 <u>Pre</u> : NURS 3260, 3261; 3270, 3271 <u>Co OR Pre</u> : NURS 3290, 3240
NURS 3350 M/S II	NURS 3240, 3260, 3261, 3270, 3271	NURS 3361	<u>Co</u> : NURS 3361 <u>Pre</u> : NURS 3250, 3280, 3290, 3240
NURS 3361 M/S II Lab	NURS 3240, 3260, 3261, 3270, 3271	NURS 3350	<u>Co</u> : NURS 3350 <u>Pre</u> : NURS 3250, 3280, 3290, 3240
NURS 4800 Gerontological Nursing	NURS 3250, 3270, 3271, 3280, 3290		<u>Pre</u> : NURS 3250, 3270, 3271 , 3280, 3290, NURS 3260, 3261
NURS 4000 OB	NURS 3261, 3290, 3350	NURS 4001	<u>Co</u> : NURS 4001 <u>Pre</u> : NURS 3261, 3290, 3350, 3361, 3240
NURS 4001 OB Lab	NURS 3261, 3290, 3350	NURS 4000	<u>Co</u> : NURS 4000 <u>Pre</u> : NURS 3261, 3290, 3350, 3361, 3240

NURS 4100 PEDS	NURS 3350, 3361, 3390	NURS 4101	<u>Co</u> : NURS 4101 <u>Pre</u> : NURS 3350, 3361, 3290, 3240
NURS 4101 PEDS Lab	NURS 3261, 3290, 3350	NURS 4100	<u>Co</u> : NURS 4100 <u>Pre</u> : NURS 3350, 3361, 3290, 3240
NURS 4230 Pharm II			<u>Pre</u> : NURS 3240 Pharm I, NURS 3250 (MS I), 3290 (Patho I)
NURS 4450 Leadership & Mgt	NURS 4000, 4001, 4100, 4230,	NURS 4451	<u>Co</u> : NURS 4451 <u>Pre</u> : NURS 4000, 4001, 4100, 4230, 4101
NURS 4451 Leadership & Mgt. Lab	NURS 4000, 4001, 4100, 4230	NURS 4450	<u>Co</u> : NURS 4450 <u>Pre</u> : NURS 4000, 4001, 4100, 4230, 4101

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

16. General and Basic Engineering

A. New Course:

ENGR 4810 – FE Exam Review

Lec. 1. Credit 1.

Prerequisite: Senior Standing

Review of FE exam topics focusing on those in General Engineering (NCEES-Other Disciplines). Overview of main concepts, examples, and extensive practice problems.

IMPACT ON FACULTY: NONE

EFFECTIVE DATE: FALL 2024

JUSTIFICATION:

The graduating seniors in the Joint BSE Program with ETSU are required to take the FE Exam to meet an accreditation requirement for the program: the major field test. This elective course will prepare the students to be successful on the exam. This course would be taught by BSE faculty at ETSU.

B. Minor Addition

The General Engineering Studies (GES) Minor consists of 15-19 credit hours of coursework. The purpose of the minor is to introduce non-engineers to the engineering profession.

i. Calculus/Engineering Analysis (select one of the following courses):	3-4 hrs
Math 1830 Applied Calculus (3)	
Math 1845 Technical Calculus (3)	
Math 1910 Calculus I (4)	
Engr 1000 Introduction to Engineering Analysis (3)	
ii. Computer Programming (select one of the following courses):	2-4 hrs
Engr 1120 Programming for Engineers (2)	
Engr 1300 Introduction to Engineering Computations (2)	
ME 1010 Mechanical Engineering Fundamentals I (3)	
CSC 1300 Introduction to Programming (4)	
iii. Engineering Visualization (select one of the following courses):	2-3 hrs
Engr 1110 Engineering Graphics (2)	
ME 1020 Mechanical Engineering Fundamentals II (3)	
iv. Engr 1210 Introduction to Engineering	1 hr
v. Engr 2100 Introduction to Engineering Communications	1 hr
vi. Engr 2400 Mechanics, Materials, and Manufacturing	3 hrs
vii. Engr 3953 Special Topics for Non-Engineers	3 hrs
Total	15-19 hrs

IMPACT ON FACULTY: None.

EFFECTIVE DATE: Fall 2024.

JUSTIFICATION: The minor is designed to introduce non-engineers to the engineering profession. Both engineering design and analysis are considered with opportunities in both the classroom and the laboratory. A special topics course is included to provide students with varied opportunities to explore engineering. Additionally, it provides a path for some non-engineering students to transition to engineering degree programs. It is accessible to many university students.

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

17. Professional Studies

- A. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 4300 Design Strategies and Promotions – (Formally – PRST 4834 Special Topic: Design Strategies of Marketing) Credit 3 (Syllabi Attached)

Course Description: This course will provide students an opportunity to research the subliminal effects of various graphic design structures and tools on consumers' decision-making processes. In addition to why consumers prefer certain design techniques over others and how qualitative or quantitative research methods are used to study the effects of colors, fonts, lines, and various other graphic design tools on consumer preferences.

Prerequisites: None

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

- B. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to

concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 4310 Ethics and AI The Good, The Bad and The Unknown – (Formally – PRST 4835 Special Topic: Ethics and AI The Good, The Bad and The Unknown) Credit 3 (Syllabi Attached)

Course Description: The Ethics and AI course will explore ethical implications and societal impacts of using emerging AI technologies (e.g., ChatGPT, iPhone AI editing <https://www.dignited.com/34229/what-is-an-ai-camera-in-smartphones/>, Voice Generation). A look at the principles of ethical responsibility, including values of integrity, fostering a culture of honesty, and nurturing an environment where genuine learning thrives in using AI technology. Students will learn about potential harms of misusing AI technology and othersocietal challenges brought on by AI not used ethically.

Prerequisites: None

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

- C. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 4310 Ethics and AI The Good, The Bad and The Unknown – (Formally – PRST 4835 Special Topic: Ethics and AI The Good, The Bad and The Unknown) Credit 3 (Syllabi Attached)

Course Description: The Ethics and AI course will explore ethical implications and societal impacts of using emerging AI technologies (e.g., ChatGPT, iPhone AI editing <https://www.dignited.com/34229/what-is-an-ai-camera-in-smartphones/>, Voice Generation). A look at the principles of ethical responsibility, including values of integrity, fostering a culture of honesty, and nurturing an environment where genuine learning thrives in using AI technology. Students will learn about potential harms of misusing AI technology and othersocietal challenges brought on by AI not used ethically.

Prerequisites: None

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

- D. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 3230 Introduction to Public Health – (Formally – PRST 4832 Special Topic: Public Health) Credit 3 (Syllabi Attached)

Course Description: This course introduces the field of public health and the core sciences that are essential to public health practice. Students will learn about the history of public health, the different disciplines that contribute to public health, and the core functions and essential services of public health. The course will also focus on the social determinants of health, and how they can lead to health disparities. Students will learn about the historical development of social constructs that lead to health disparities, and how to identify and analyze these disparities in large populations.

Prerequisites: None

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

- E. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 4210 Healthcare Leadership and Management – (Formally – PRST 4837 Special Topic: Healthcare Leadership and Management) Credit 3 (Syllabi Attached)

Course Description: This course delves into the complex interplay of managerial and

leadership roles within the healthcare sector, offering a deep dive into concepts, issues, and practical functions relevant to healthcare professionals. It is tailored to provide an understanding of how leadership theories and management principles are uniquely applied in healthcare settings. Key topics include strategic planning, ethical decision-making, effective communication, and team management, all within the context of healthcare. Participants will engage with real-world scenarios and case studies, gaining insights into navigating the challenges and opportunities in healthcare leadership. The course is designed not only to impart theoretical leadership knowledge but also to equip aspiring and current healthcare professionals with practical skills for leading and managing effectively. This includes understanding their own leadership style as well as healthcare policies, laws, and regulations, ensuring a comprehensive grasp of the healthcare landscape. Ideal for anyone interested in a career in the healthcare setting, this course aims to cultivate leaders who can drive positive change and innovation in their healthcare environments.

Prerequisites: None

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

- F. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 4200 Healthcare Research – (Formally – PRST 4836 Special Topic: Healthcare Research) Credit 3 (Syllabi Attached)

Course Description: This course builds upon the student's liberal arts background and basic healthcare knowledge, utilizing systematic inquiry and analysis by reinforcing the problem-solving method to utilize research in the improvement of healthcare practice to affect positive outcomes. The course focuses on the fundamentals of the research process namely research ethics, qualitative research methods and non-experimental methods. Students are also taught how to use statistics to answer questions and how to use this skill to aid them in the review/interpretation of healthcare literature and healthcare research. This course meets the requirements of a basic research course for those intending to pursue graduate studies.

Prerequisites: Statistics are a prerequisite or co-requisite and/or permission of the instructor. Since basic knowledge of statistics is essential in the evaluation of quantitative research studies, fundamental knowledge of statistics is necessary for

success in achieving course objectives.

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

- G. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 3500 Leadership for Pre-Traumatic Events – (Formally – PRST 4830 Special Topic Leadership and Preparedness for Traumatic Events:) Credit 3 (Syllabi Attached)

Course Description: This course is designed to prepare professionals to enter tragic situations while maintaining their humanity. The course readings will focus on the biological responses that one should expect when confronted with traumatic circumstances. Course videos will include interviews with current professionals who will share their professional exposure to traumatic environments, and additionally the leadership wisdom that they have gained to help prepare and lead women and men under their charge. The focus of this course is not on tactics or strategies for specific professions or situations, rather the student will gain broad knowledge for developing the interpersonal and intrapersonal skills that will enable students to be ready to lead when the unexpected and unthinkable happens.
Prerequisites: None

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

- H. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 3510 Leadership for Post-Traumatic Events – (Formally – PRST 4830 Special Topic Leadership and Preparedness for Traumatic Events:) Credit 3 (Syllabi Attached)

Course Description: This course is designed to prepare leaders to lead when the

world goes awry. We live in a world marred by traumatic incidents of all kinds. Not only will we lead others who have been through traumatic events, but we will also experience our own moments of trauma in life. The first part of the course will dive deep into the impacts of trauma on the human mind and body. We will learn about historical attitudes regarding trauma and then unpack what today's science reveals about best treatment practices. Once we have established a strong baseline knowledge of trauma, we will dig into leadership principles that will help us to lead ourselves, our families, and our teams on the other side of trauma.

Prerequisites: None

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

- I. The School of Professional Studies requests approval to assign permanent numbers to PRST Special Topics course/s. This course was taught over the last several semesters as a PRST Special Topics course. The course represents important additions to concentrations and degrees for the undergraduate of Professional Studies and other Majors.

PRST 4220 Understanding Mental Health as a Public Health Issue– (Formally – PRST 4832 Special Topic: Understanding Mental Health as a Public Health Issue) Credit 3 (Syllabi Attached)

Course Description: This course explores the history and impact of mental health on public health. Aside from promoting healthy lifestyles, public health is also responsible for detecting, preventing, and responding to diseases. It is essential for public health to address mental health since it affects both physical and social well-being. Living a fulfilling life depends on how people relate to others, make decisions, handle stress, and manage their mental health. Identifying risk factors, improving mental health awareness, eliminating stigma associated with treatment, eliminating health disparities, and improving access to mental health services for all people, especially those who are disproportionately affected are among the public health challenges. Providing culturally sensitive programs and services to all communities requires understanding different cultural perceptions about mental health and limited access to care. Bringing a sense of wellness to communities that would otherwise lack proper access to care is possible by understanding mental health as a public health issue.

Prerequisites: None

Justification: This course has been a successful PRST Special Topics Course.

Effective Date: Fall 2024

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

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

J. New Concentration

Addition: The following courses, used as a concentration for Desktop Publishing, are listed under the major Professional Studies. We ask the following courses to be added to the program. The program lists courses available at Tennessee Tech that are comparable or equivalent to the courses offered through TN eCampus. A concentration in Desktop Publishing under the Professional Studies undergraduate degree will consist of the following:

Required courses:

Choose at least 6 courses in the following:

ART 3210 - Design Studio (3)

JOUR 3480 - Social Media Management (3)

PRST 4300 Design Strategies in Promotions

PRST 4310 Ethics and AI: The Good, the Bad & the Unknown

JOUR 3030 - Principles of Event Planning (3)

MKT 3200 - Entrepreneurial Mindset (3)

PRST 4830-4839 – Special Topics Courses

Justification: This concentration complements the Professional Studies undergraduate program by giving students coursework in the areas of Desktop Publishing. This will prepare students to take leadership roles in a variety of organizational settings, both for-profit and non-profit. Tech undergraduate professional studies students have expressed interest in coursework in this area for several years. Providing this coursework will serve these students and improve enrollment and retention at Tech. This concentration better aligns the undergraduate with the graduate Professional Studies degree by eliminating substations and creating Tennessee Tech options rather than relying on TN-eCampus.

Cost: None

Effective: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

K. New Concentration

The following courses, used as a concentration for Public Safety are listed under the major Professional Studies. We ask the following courses to be added to the program. The program lists courses available at Tennessee Tech that are comparable or equivalent to the courses offered through TN-eCampus. A concentration in Public Safety under the Professional Studies undergraduate degree will consist of the following:

Required courses:

Choose at least 6 courses from the following:

PRST 3500 - Leadership for Pre-Traumatic Events

PRST 3510 - Leadership for Post-Traumatic Events

PRST 4220 Understanding Mental Health as a Public Health Issue

PRST 4920 - Surviving an Active Shooter (3)

PRST 4921 - Intelligence Gathering (3)

PRST 4922 - Managing Emergency Volunteers (3)

PRST 4923 - Science of Contact Tracing (3)

PRST 4924 - Biological Event Readiness (3)

PRST 4830-4839 – Special Topics Courses

LIST 3500 - Non-Profit Leadership (3)

Justification: This concentration complements the Professional Studies undergraduate program by giving students coursework in the concentration area of Public Safety. This will prepare students to take leadership roles in a variety of organizational settings, both emergency management and first responders. Tech undergraduate Professional Studies students have expressed interest in coursework in this area for several years thus taking Public Safety classes as an emphasis area in COIS. Providing this coursework concentration will serve these students and improve enrollment and retention. This concentration better aligns the undergraduate with the graduate Professional Studies Master's degree by eliminating substitutions and creating Tennessee Tech options rather than relying on TN-eCampus.

Cost: None

Effective: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

18. Art, Craft and Design

A. New Course

Art 4212: Design Practicum

3 credits studio

Justification: We need a 3 credit hour practicum course to stay within 120 hour degree requirements

Financial impact: None. Effective date: Fall 2024. Syllabus attached

B. Curriculum and Catalog Changes

Bachelor of Fine Arts, design concentration

DELETE: ART 4211: Design Practicum from fall of senior year. ADD 4212: Design Practicum to fall of senior year Effective: fall 2024

Financial impact: None.

Justification: to comply with 120 credit degree requirements

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

19. Economics, Finance and Marketing

A. Curriculum change in the BSBA, Marketing Major

Proposed Changes:

Decrease Business Elective from 6 credits to 3 credits.

Increase Marketing Electives from 12 credits to 15 credits.

Justification: Business Electives changed from 3 credits to 6 credits when the upper division economics requirement was dropped from the BSBA. Marketing faculty feel that marketing majors would benefit from additional exposure to marketing courses.

Financial Impact: No additional financial impact is anticipated.

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

B. New Minor

The Department of Economics, Finance & Marketing would like to offer students the opportunity to earn a Minor in Marketing. Students may earn this minor by completing 15 hours from the following courses:

Required: MKT 3400 – Principles of Marketing (3)
 MKT 4530 – Consumer Behavior (3)

Plus 3 upper division MKT electives (MKT 3000:4999)

Justification: The College of Business currently offers minors in Business, Business Management, Human Resource Management, Business Information Technology & Analytics, International Business and Operations, Logistics, & Supply Chain Management. This new minor will allow students from across the university the opportunity to develop specialized expertise in a high-growth field.

Financial Impact: No additional new costs are expected.

Effective Date: Fall 2024

Motion to approve: Julie Baker

Second: Lisa Zagumny

Vote: Motion carried

20. Nomination of University Curriculum Committee Chair for 2024/25 Year

A. Christy Killman nominated Dr. Jeremy Wendt

Motion to approve: Christy Killman

Second: Curtis Armstrong

Vote: Motion carried

21. Other Such Matters

A. Dr. Curtis Armstrong discussed SACSCOC – updating faculty credentials.

- i. The data is on the website and available to use.
- ii. He will make available a tutorial on use and updating faculty credentials.
- iii. He asked that everyone verify the roster and everything on it.
- iv. He requested that the documents currently on the website be verified including:
 - a) CV
 - b) FQC
 - c) Approval form if the faculty is a graduate faculty member

B. Dr. Huo thanked everyone for their hard work in utilizing Coursegod for submission of curriculum proposals.

With no further matters and no further discussion, Dr. Wendt requested a motion to adjourn the meeting at 4:16 p.m.

Motion to approve: Christy Killman

Second: Curtis Armstrong

Vote: Motion carried