Provost Approved 4/18/2023
*Effective Fall 2023 unless otherwise noted.

MINUTES OF THE MEETING
OF THE UNDERGRADUATE ACADEMIC POLICIES AND PROCEDURES COMMITTEE
February 1, 2023

The Undergraduate AP&P Committee met on Wednesday, February 1, 2023 at 3:00 p.m. via Zoom.

Committee members present:, Dr. Jeff Hirst, Dr. Susan Lappan, Dr. Jamie Levine, Dr. Stephen McCreery, Dr. Courtney McGahee, Dr. Jason Miller, Dr. Tanga Mohr, Mr. Nick Siringo, Dr. Katy Strand, Dr. Teressa Sumrall

Committee members excused: Dr. Whitney Bevill, Dr. Shannon Cline, Dr. Steve Leon, Dr. Manan Roy
Committee members not excused: Mr. Jackson Davis, Dr. Lisa Poling

At 3:06 p.m. quorum was met and Dr. Jeff Hirst called the meeting to order and welcomed the members.

Approval of Minutes

- December 7, 2022

Vote 1 – To approve the minutes from the December 7, 2022 meeting - PASSED

Subcommittees

- AP&P Joint Subcommittee – nothing to report

Announcements/FIOs

- FIO - The General Education Council met on January 27, 2023. The action of memos is at the end of the minutes.
- FIO – The General Education Council met on February 24, 2023. The action of memos is at the end of the minutes.
- FIO - Semester Offerings Changes – See list of courses at the end of the minutes.
- FIO – Reich College of Education Department Reorganization - Terry McClannon gave an overview of the COE reorganization. The announcement from Academic Affairs is at the end of the minutes.

New Business (Total 41)
Beaver College of Health Sciences (1)
College of Arts and Sciences (21)
College of Fine and Applied Arts (19)

Proposal from the Beaver College of Health Sciences were approved as follows: Effective: Fall 2023

Department of Nursing (1)

U_HS_NUR_2022_1	Revise the program of study for the BSN Bachelor of Science in Nursing (809A/51.3801). And revise the department and college text in the Undergraduate Bulletin that corresponds with the changes. The revised program of study and Bulletin text is at the end of the minutes.

Vote 2 – To approve the proposal from the Department of Nursing – PASSED

Proposals from the College of Arts and Sciences were approved as follows: Effective: Fall 2023

Department of Chemistry and Fermentation Sciences (1)

U_CAS_CFS_2022_12 Change the prerequisite statement of **CHE 3303 – Physical Chemistry I Laboratory (1)** to read as follows:
Prerequisites: CHE 2210, CHE 2211, MAT 1120, PHY 1150, and PHY 1151.
Prerequisite or Corequisite: CHE 3301.

Vote 3 – To approve the proposal from the Department of Chemistry and Fermentation Sciences - PASSED

Department of Rural Resilience and Innovation (20)

U_CAS_RRI_2022_01 Change the prerequisite statement of **VTN 2010 – Animal Anatomy (3)** to read as follows:
Prerequisites: BIO 1801/ BIO 1802 OR BIO 1201/ BIO 1202; CHE 1101/CHE 1110 OR CHE 1051/1053; VTN 1030 with a minimum grade of "C" (2.0). Student must be intended or declared Veterinary Technology major.
Prerequisites or Corequisites: CHE 1102/CHE 1120 OR CHE 1052/1054.

U_CAS_RRI_2022_02 Change the prerequisite statement of **VTN 2020 – Animal Physiology (3)** to read as follows:
Prerequisites: BIO 1801/ BIO 1802 OR BIO 1201/BIO 1202; CHE 1101/CHE 1110 OR CHE 1051/1053, VTN 1030 with a minimum grade of "C" (2.0). Student must be intended or declared Veterinary Technology major.
Prerequisites or Corequisites: CHE 1102/CHE 1120 OR CHE 1052/1054.

U_CAS_RRI_2022_03 Change the prerequisite statement of **VTN 2030 – Small Companion Animal Nursing (3)** to read as follows:
Prerequisite: VTN 1030 with a minimum grade of "C" (2.0). Student must be intended or declared Veterinary Technology major.
Prerequisites or Corequisites: VTN 2010, VTN 2020.

U_CAS_RRI_2022_04 Change the prerequisite statement of **VTN 2050 – Veterinary Surgical Nursing (3)** to read as follows:
Prerequisite: VTN 1030 with a minimum grade of "C" (2.0). Student must be intended or declared Veterinary Technology major.
Prerequisites or Corequisites: VTN 2010, VTN 2020.

U_CAS_RRI_2022_05 Change the prerequisite statement of **VTN 2060 – Veterinary Clinical Pathology I (3)** to read as follows:
Prerequisite: VTN 1030 with a minimum grade of "C" (2.0). Student must be intended or declared Veterinary Technology major.
Prerequisites or Corequisites: VTN 2010, VTN 2020.

U_CAS_RRI_2022_06 Change the prerequisite statement of **VTN 2090 – Large, Laboratory, and Exotic Animal Nursing (3)** to read as follows:
Prerequisite: VTN 1030 with a minimum grade of "C" (2.0). Student must be intended or declared Veterinary Technology major.
Prerequisites or Corequisites: VTN 2010, VTN 2020.

U_CAS_RRI_2022_07 Change the course description and prerequisite statement of **VTN 2998 – Clinical Externship (1-3)** to read as follows:
VTN 2998 - Clinical Externship (1-3)
When Offered: Summer Session

This course consists of supervised clinical experience in a workplace approved by the instructor. (Note: A minimum of 70 hours per hour of credit is required). The clinical externship is intended to provide students with the hands-on experience necessary to develop the skills needed by veterinary technicians. Students will perform specific essential skills along with completing a minimum of 70 hours per hour of credit. Categories of required skills include office and clinic procedures, communication and client relations, examination room procedures, pharmacy and pharmacology, surgical exam room procedures, surgical preparation and assisting, animal nursing, laboratory procedures, radiology and ultrasound imaging, large animal procedures, and laboratory animal procedures. Students will demonstrate ability to perform skills to the clinical site supervisor, who will verify that the student has performed each skill satisfactorily.
Graded on an S/U basis.
Prerequisite: Permission of the instructor. Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_08 Change the prerequisite statement of **VTN 3010 – Introduction to Veterinary Practice Management (2)** to read as follows:
Prerequisite: VTN 1030 with a minimum grade of "C" (2.0). Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_09 Change the prerequisite statement of **VTN 3020 – Introduction to Veterinary Dentistry (2)** to read as follows:
Prerequisites: VTN 1030 with a minimum grade of "C" (2.0); VTN 2010, VTN 2020. Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_10 Change the prerequisite statement of **VTN 3030 – Principles of Veterinary Pharmacology (2)** to read as follows:
Prerequisites: VTN 1030 with a minimum grade of "C" (2.0); VTN 2010, VTN 2020. Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_11 Change the prerequisite statement of **VTN 3040 – Veterinary Clinical Pathology II (3)** to read as follows:
Prerequisites: VTN 1030 with a minimum grade of "C" (2.0); VTN 2060. Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_12 Change the prerequisite statement of **VTN 3060 – Veterinary Diagnostic Imaging (2)** to read as follows:
Prerequisites: VTN 1030 with a minimum grade of "C" (2.0); VTN 2010, VTN 2020. Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_13 Change the prerequisite statement of **VTN 3070 – Veterinary Anesthesia and Analgesia (3)** to read as follows:
Prerequisites: VTN 1030 with a minimum grade of "C" (2.0); VTN 2010, VTN 2020, VTN 2050. Student must be intended or declared Veterinary Technology major.
Prerequisite or Corequisite: VTN 3030.

U_CAS_RRI_2022_14 Change the prerequisite statement of **VTN 3080 – Professional Communication Skills in Veterinary Medicine (2)** to read as follows:
Prerequisites: VTN 1030 with a minimum grade of "C" (2.0) and RC 2001 or its equivalent. Student must be intended or declared Veterinary

Technology major.

U_CAS_RRI_2022_15 Change the prerequisite statement of **VTN 3100 – Introduction to Veterinary Emergency Medicine (3)** to read as follows:
Prerequisites: VTN 1030 with a minimum grade of "C" (2.0); VTN 2010, VTN 2020, VTN 3030. Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_16 Add a prerequisite statement to **VTN 3500 – Independent Study (1-4)** to read as follows:
Prerequisites: Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_17 Change the prerequisite statement of **VTN 3530-3549 – Selected Topics (1-4)** to read as follows:
Prerequisite: junior or senior standing or permission of the departmental chair. Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_18 Change the prerequisite statement of **VTN 2530-2549 – Selected Topics (1-4)** to read as follows:
Prerequisite: junior or senior standing or permission of the departmental chair. Student must be intended or declared Veterinary Technology major.

U_CAS_RRI_2022_19 Revise the program of study for the Bachelor of Science in Veterinary Technology (923A/01.8301). The revised program of study is at the end of the minutes.

U_CAS_RRI_2022_20 Change course description of **VTN 1030 – Introduction to Veterinary Nursing (3)** to read as follows:
VTN 1030 - Introduction to Veterinary Nursing (3)
When Offered: On Demand
This course provides an introduction to medical terminology and the role of the veterinary nurse/veterinary technician in team based veterinary medical health care. Concepts related to veterinary nurse/ veterinary technician professional education and credentialing, laws and ethics, professionalism, time management, learning strategies, and wellbeing will be introduced. This course acquaints the student with basic skills and procedures for medical history collection and initial physical examination (small and large animal). Basic concepts related to veterinary practice management, client communication, obtaining patient history and basic physical exam skills, veterinary medical records, and occupational health and safety will be introduced. This course also explores basic technical and nursing knowledge and skills, to include general patient care and concepts related to normal, healthy large and small animal patients. Safety issues will be integrated throughout the course, consistent with the CVTEA Statement on Safety Appendix, with an emphasis on zoonoses and occupational safety. Students are strongly encouraged to complete 40 observation hours in a veterinary clinical environment as part of the course.

Vote 4 – To approve the proposal from the Department of Rural Resilience and Innovation – PASSED

Proposals from the College of Fine and Applied Arts were approved as follows:

Department of Applied Design (1)

U_FAA_AD_2022_1 Add a course prefix DSN (Design).

Course Addition:
DSN 3500 – Independent Study (1-4)
When Offered: On Demand

Course Addition:
DSN 3520 – Instructional Assistance (1)
When Offered: On Demand
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. May be repeated for a total credit of three semester hours.
Graded on a S/U basis.
Prerequisite: junior or senior standing.
Approved contract required.

Course Addition:
DSN 3530-3549 – Selected Topics (1-4)
When Offered: On Demand

Vote 5 – To approve the proposal from the Applied Design - PASSED

Department of Sustainable Technology and the Build Environment (18)

U_FAA_STBE_2022_1 Add a course prefix BSC (Building Sciences).

Course Addition:
BSC 3500 – Independent Study (1-4)
When Offered: Fall; Spring
Approved contract is required.

Course Addition:
BSC 3520 – Instructional Assistance (1)
When Offered: Fall; Spring
A supervised experience in the instructional process on the university level through direct participation in a classroom situation. May be repeated for a total credit of three semester hours.
Graded on an S/U basis.
Prerequisite: junior or senior standing.

Course Addition:
BSC 3530-3549 – Selected Topics (1-4)
When Offered: On Demand

Course Addition:
BSC 3900 – Internship: Field Experience (3)
When Offered: On Demand
Supervised experience in a professional setting which provides an opportunity for students to observe, practice, and develop skills related to work in building science and/or sustainable technology fields.
Graded on an S/U basis.

Course Addition:
BSC 4530-4549 – Selected Topics (1-4)
When Offered: On Demand

U_FAA_STBE_2022_2 Change the course prefix and numbers of several Building Science courses.

Change the course prefix and number of **TEC 1708 – Construction Methods I (3)** [DELETE TEC 1708 and ADD BSC 1110] to read as follows:
BSC 1110 - Construction Methods I (3)
When Offered: Fall; Spring
This course introduces the fundamentals of the design and construction process, building materials and methods, project management systems, and building code requirements. Introduces contemporary trends in residential and light construction with a focus on high performance buildings and codes. Includes a lab component in which students are introduced to construction management techniques and participate in hands-on construction activities. Lecture two hours, laboratory two hours.
Prerequisite or Corequisite: MAT 1010 (or higher); Note: MAT 1020 is required for Building Science majors.

TEC 1708 and BSC 1110 are equivalent.

Courses affected: TEC 1728, TEC 2024, TEC 2718, TEC 2739
POS affected: 456E, 550A, 571A, 577B, 577C, 577D, 580, SDT

Change the course prefix and number of **TEC 1728 – Architectural Graphics and Modeling I (3)** [DELETE TEC 1728 and ADD BSC 1210] to read as follows:
BSC 1210 - Architectural Graphics and Modeling I (3)
When Offered: Fall; Spring
This course introduces the fundamentals and conventions for architectural working drawings using hand-sketching, computer aided design (CAD), and building information model (BIM) platforms. Lecture two hours, laboratory two hours.
Prerequisite: Completion of BSC 1110 with a minimum grade of "C" (2.0) or Corequisite: enrollment in BSC 1110. Prerequisite or Corequisite: MAT 1010 (or higher). Note: MAT 1020 is required for Building Science majors.

TEC 1728 and BSC 1210 are equivalent.

Courses affected: TEC 2719, TEC 3038, TEC 3609, TEC 4607
POS affected: 456E, 550A, 571A, 577B, 577C, 577D, 580, GC, SDT

Change the course prefix and number of **TEC 2718 – Building Services (3)** [DELETE TEC 2718 and ADD BSC 1410] to read as follows:
BSC 1410 - Building Services (3)
When Offered: Fall; Spring
This course introduces the design, installation, and function of important building services - water supply and waste (plumbing); electrical; and heating, ventilation and air conditioning (HVAC). The course combines lectures on the theory, practice, drawing methods, and building codes related to these systems with hands-on procedures. Lecture two hours, laboratory two hours.
Prerequisites: MAT 1010 (or higher) and BSC 1110 with a minimum grade of "C" (2.0). Note: MAT 1020 is required for Building Science majors.

TEC 2718 and BSC 1410 are equivalent.

Courses affected: TEC 3609, TEC 3748, TEC 4607
POS affected: 550A, 571A, 577B, 577C, 577D, 580, SDT

Change the course prefix and number of **TEC 2719 – Surveying Methods**

(1) [DELETE TEC 2719 and ADD BSC 2115] to read as follows:
BSC 2115 - Surveying Methods (1)
When Offered: Fall; Spring.
This course emphasizes the fundamentals of and technologies used in site surveying and site layout.
Graded on an S/U basis.
Corequisite: BSC 1210.

TEC 2719 and BSC 2115 are equivalent.

Courses affected: None
POS affected: 577B, 577C, 577D

Change the course prefix and number of **TEC 2739 - Materials and Structures I (3)** [DELETE TEC 2739 and ADD BSC 1310] to read as follows:
BSC 1310 - Materials and Structures I (3)
When Offered: Fall; Spring
This course introduces the structure, characteristics, analysis, and real-world application of engineering materials in the built environment, with an emphasis on the relationship between their properties and performance. Topics include structure, mechanical properties, strengthening mechanisms, failure analysis, corrosion and degradation, and materials characterization techniques of commonly used construction materials.
Lecture two hours, laboratory two hours.
Prerequisites: MAT 1020 (or higher) with a minimum grade of "B" (3.0), PHY 1103 (or higher) with a minimum grade of "C" (2.0). Prerequisite or Corequisite: BSC 1110 with a minimum grade of "C" (2.0).

TEC 2739 and BSC 1310 are equivalent.

Course affected: TEC 3038, TEC 3738
POS affected: 580, 577B, 577C, 577D, MS

Change the course prefix and number of **TEC 3035 - Architectural Field Study (1-3)** [DELETE TEC 3035 and ADD BSC 3975] to read as follows:
BSC 3975 - Architectural Field Study (1-3)
When Offered: On Demand
Travel, tours, and study of areas of interest within the architecture profession. Metropolitan areas, historic building sites, design firms, and museums are typical destinations.
Graded on an S/U basis.
Prerequisite: BSC 3710 or permission of the instructor.
Attendance and overnight stays are required.

TEC 3035 and BSC 3975 are equivalent.

Courses affected: None
POS affected: 577B, 577C, 577D

Change the course prefix and number of **TEC 3036 - Construction Management Field Study (1-3)** [DELETE TEC 3036 and ADD BSC 3965] to read as follows:
BSC 3965- Construction Management Field Study (1-3)
When Offered: On Demand
Travel, tours, and study of areas of interest within the construction industry. Conferences, large construction sites, and construction firms are

typical destinations.
Graded on an S/U basis.
Prerequisite: BSC 3710 or permission of the instructor.
Attendance and overnight stays are required.

TEC 3036 and BSC 3965 are equivalent.

Courses affected: None
POS affected: 577B, 577C, 577D

Change the course prefix and number of **TEC 3037 - Sustainable Building Systems Field Study (1-3)** [DELETE TEC 3037 and ADD BSC 3945] to read as follows:
BSC 3945 - Sustainable Building Systems Field Study (1-3)
When Offered: On Demand
Travel, tours, and study of areas of interest within the building performance industry. Conferences, buildings for field research, and building performance firms are typical destinations.
Graded on an S/U basis.
Prerequisite: BSC 3710 or permission of the instructor.
Attendance and overnight stays are required.

TEC 3037 and BSC 3945 are equivalent.

Courses affected: None
POS affected: 577B, 577C, 577D

Change the course prefix and number of **TEC 3718 - Construction Estimating (3)** [DELETE TEC 3718 and ADD BSC 3620] to read as follows:
BSC 3620 - Construction Estimating (3)
When Offered: Fall; Spring
This course introduces the concept and formats of construction specifications and current methods for material quantity takeoffs and cost estimating. These methods are emphasized through individual and team projects using industry relevant building information modeling (BIM) and other software tools. Knowledge of construction drawings, residential construction methods, and commercial construction methods is reinforced.
Prerequisite: BSC 2120 with a minimum grade of "C" (2.0). Prerequisite or Corequisite: BSC 2115.

TEC 3718 and BSC 3620 are equivalent.

Courses affected: TEC 3728, TEC 4758
POS affected: 577B, 577C, 577D, 580

Change the course prefix and number of **TEC 3728 - Architectural Design Studio I (3)** [DELETE TEC 3728 and ADD BSC 3710] to read as follows:
BSC 3710 - Architectural Design Studio I (3)
When Offered: Fall; Spring
This introductory studio course focuses on the application of design fundamentals and project phases used in the architectural design process. Provides exposure to research and analysis, programming, concept creation, schematic design, and design development. Reinforces basic knowledge of the means, methods, and strategies required to develop, design, and construct sustainable buildings. Emphasizes standard graphic

conventions and methods of project presentation. Lecture two hours, studio two hours.
Prerequisite or Corequisite: BSC 2420, BSC 3620, and BSC 3330.

TEC 3728 and BSC 3710 are equivalent.

Course affected: TEC 3035, TEC 3036, TEC 3037, TEC 3758, TEC 4901
POS affected: 577B, 577C, 577D, 580, GC, SDT, STEM

Change the course prefix and number of **TEC 3739 - Materials and Structures III (3)** [DELETE TEC 3739 and ADD BSC 3330] to read as follows:
BSC 3330 - Materials and Structures III (3)
When Offered: Fall; Spring
This course introduces basic behavior of substructures. Topics include but not limited to the engineering properties of soil, load tracing, and foundation design and construction. In addition to the substructures, this course introduces basic surveying principles. Lecture two hours, laboratory two hours.
Prerequisite: BSC 2320 with a minimum grade of "C" (2.0).

TEC 3739 and BSC 3330 are equivalent.

Courses affected: TEC 3728, TEC 4758
POS affected: 577B, 577C, 577D, 580

Change the course prefix and number of **TEC 3758 - Architectural Design Studio II (3)** [DELETE TEC 3758 and ADD BSC 3720] to read as follows:
BSC 3720 - Architectural Design Studio II (3)
When Offered: Spring
This is an advanced level course exploring the broad field of architectural building design. It investigates form, space, tectonics, and details of buildings. Students have the opportunity to learn a variety of design development techniques, including manual drafting, sketching and rendering, computer software, and physical model building. Required course projects include presentation drawings, construction drawings, renderings, and models. Lecture two hours, studio two hours.
Prerequisites: INT 1002 and BSC 3710.

TEC 3758 and BSC 3720 are equivalent.

Course affected: TEC 4738
POS affected: 577B

Chane the course prefix and number **of TEC 3807 - Construction Safety (2)** [DELETE TEC 3807 and ADD BSC 3625] to read as follows:
BSC 3625 - Construction Safety (2)
When Offered: On Demand
This course emphasizes occupational safety and health in the construction workplace based on OSHA standards. Students are required to complete OSHA 30-Hour Training for Construction from an OSHA certified training program and provide a certificate of completion.
Graded on an S/U basis.
Students will be required to satisfactorily complete the OSHA 30 hour Construction course and must provide a certificate of completion.

TEC 3807 and BSC 3625 are equivalent.

Courses affected: None
POS affected: 571A, 577B, 577C, 577D

Change the course prefix and number of **TEC 4738 - Architectural Design Studio III (4)** [DELETE TEC 4738 and ADD BSC 4730] to read as follows:
BSC 4730 - Architectural Design Studio III (4)
When Offered: Fall
This advanced studio course focuses on the integration of environmental contexts relative to sustainable building design. Reinforces architectural techniques in site research, analysis, and planning, building envelope design, energy efficiency, passive environmental systems, and material applications. Emphasizes critical thinking, assessment of design options, and methods of project presentation. Studio six hours.
Prerequisites: BSC 3720.

TEC 4738 and BSC 4730 are equivalent.

Courses affected: TEC 4748
POS affected: 577B

Change the course prefix and number of **TEC 4748 - Architectural Design Studio IV (4)** [DELETE TEC 4748 and ADD BSC 4749] to read as follows:
BSC 4749- Architectural Design Studio IV (4)
When Offered: Spring
This advanced studio course focuses on comprehensive and complex design problems through individual and collaborative projects. Emphasizes creation of integrated building project solutions that are compliant, resilient, efficient, and responsible. Reinforces analysis of design options for structural, programmatic, and performative viability. Promotes development and application of innovative design strategies. Emphasizes visual and verbal communication. Studio six hours.
Prerequisites: BSC 4730, BSC 4900 and BSC 4901.

TEC 4748 and BSC 4749 are equivalent.

Courses affected: None
POS affected: 577B

Change the course prefix and number of **TEC 4768 - Construction Administration (3)** [DELETE TEC 4768 and ADD BSC 4640] to read as follows:
BSC 4640 - Construction Administration (3)
When Offered: Fall; Spring
This course emphasizes the administrative aspects of construction projects. Topics covered include organizational structures and delivery methods, required licenses and insurance, taxes, codes, permits, safety requirements, personnel management, customer relations, value engineering, accounting, financing, and construction law.
Prerequisite or Corequisite: BSC 3630.

TEC 4768 and BSC 4640 are equivalent.

Course affected: TEC 4778
POS affected: 577B, 577C, 577D

U_FAA_STBE_2022_3

Change the course prefix, number, and prerequisite statement of **TEC 3038 – Construction Methods II (3)** [DELETE TEC 3038 and ADD BSC 2120] to read as follows:
BSC 2120 - Construction Methods II (3)
When Offered: Fall; Spring
This course introduces the technical, economic and managerial aspects of the commercial and industrial construction industries. Reinforces the civil, structural, and envelope components of buildings and building sites, and emphasizes the equipment, materials, methods, and construction processes used in commercial construction.
Prerequisites: MAT 1020 or higher with a minimum grade of "B" (3.0); BSC 1210 with a minimum grade of "C" (2.0); and admission to the intermediate coursework sequence; or consent of the Building Sciences Program Director.

TEC 3038 and BSC 2120 are equivalent.

Course affected: TEC 3718
POS affected: 577B, 577C, 577D, 580

U_FAA_STBE_2022_4

Change the course prefix, number, and prerequisite statement of **TEC 3738 – Materials and Structures II (3)** [DELETE TEC 3738 and ADD BSC 2320] to read as follows:
BSC 2320 - Materials and Structures II (3)
When Offered: Fall; Spring
This course introduces students to the principles and physical concepts of statics (the study of bodies and forces in equilibrium) and strength of materials related to construction. The study of bridge types, trusses, and other structures will be integrated into the coursework in order to provide a practical framework for the subject matter. Lecture two hours, laboratory two hours.
Prerequisite: BSC 1310 with a minimum grade of "C" (2.0); and admission to the intermediate coursework sequence; or consent of the Building Sciences Program Director.

TEC 3738 and BSC 2320 are equivalent.

Course affected: TEC 3739
POS affected: 577B, 577C 577D, 580, MS

U_FAA_STBE_2022_5

Change the course prefix, number, and prerequisite statement of **TEC 3748 – Building Science (3)** [DELETE TEC 3748 and ADD BSC 2420] to read as follows:
BSC 2420 - Building Science (3)
When Offered: Fall; Spring
This course introduces the strategies, assemblies, and materials used to passively manage indoor environmental quality and the integrity of envelope systems. Reinforces typical construction assembly strategies while introducing other high performance approaches. Primary topics include moisture, air, thermal, and vapor control and quantifying thermodynamic impacts. Other considerations include building durability, energy efficiency, indoor air quality, and occupant comfort. Students focus on using building diagnostic equipment in the field or designing and detailing building envelope systems. Lecture two hours, laboratory two hours.
Prerequisites: MAT 1020 or higher with a minimum grade of "B" (3.0); PHY 1104 with a minimum grade of "C" (2.0); BSC 1410 with a minimum grade of "C" (2.0); and admission to the intermediate coursework sequence; or consent of the Building Sciences Program Director.

TEC 3748 and BSC 2420 are equivalent.

Courses affected: TEC 3728, TEC 4618, TEC 4729, TEC 4758
POS affected: 571A, 577B, 577C, 577D, 580, SDT

U_FAA_STBE_2022_6

Change the course prefix, number, and prerequisite statement of **TEC 4778 – Integrated Project Design and Delivery (4)** [DELETE TEC 4778 and ADD BSC 4659] to read as follows:
BSC 4659 - Integrated Project Design and Delivery (4)
When Offered: Fall; Spring
This is an advanced level course exploring the broad field of how architectural building design, engineering, and construction management interface with one another. It investigates Integrated Project Delivery methods using Computer-aided Drafting and Design (CADD), Building Information Modeling (BIM) and physical model building. Required course projects include a full set of construction drawings, cost estimates, project planning, and scheduling. Lecture two hours, laboratory two hours.
Prerequisites: BSC 3630. Prerequisite or Corequisite: BSC 4640, BSC 4900 and BSC 4901.

TEC 4778 and BSC 4659 are equivalent.

Courses affected: None
POS affected: 577C

U_FAA_STBE_2022_7

Course Addition:
BSC 3430 – HVAC Systems and Performance (3)
When Offered: Fall
This course provides a survey of HVAC systems and how they perform in a variety of settings including residential, commercial, institutional, and industrial facilities. Students should expect to gain knowledge related to relevant standards and codes, system configurations and components, residential design procedures, and making decisions related to HVAC systems and operations. The course will give students the opportunity to see real systems, use measurement instrumentation, and participate in active learning. Lecture two hours, laboratory two hours.
Prerequisite: BSC 2420.

U_FAA_STBE_2022_8

Change the course prefix, number, semester offering, and prerequisite statement of **TEC 4788 – Integrated Energy and Building Systems (4)** [DELETE TEC 4788 and ADD BSC 4459] to read as follows:
BSC 4459 - Integrated Energy and Building Systems (4)
When Offered: Spring
This course explores systems design and performance quantification for a wide range of residential and commercial building types. Introduces complex energy modeling software as a tool for evaluating these different building systems. Reinforces analysis of passive and active systems. Emphasizes quantitative reasoning and verbal communication. Lecture two hours, laboratory two hours.
Prerequisites: TEC 3612, BSC 3430, BSC 4900, and BSC 4901.

TEC 4788 and BSC 4459 are equivalent.

Courses affected: None
POS affected: 577D

U_FAA_STBE_2022_9

Course Addition:

BSC 4900 – Internship (3-12)
When Offered: Fall; Spring; Summer
Graded on an S/U basis.

U_FAA_STBE_2022_10 Course Addition:
BSC 4901 – Internship Portfolio (3)
When Offered: Fall; Spring; Summer Session
This course is the required counterpart to the BSC 4900 Capstone internship experience for Building Science majors. It reinforces knowledge gained through coursework and skills gained during the internship. Emphasizes quality of written documentation and professional communication.
Prerequisites: RC 2001 or its equivalent and BSC 3710. Corequisite BSC 4900.

U_FAA_STBE_2022_11 Revise the program of study for the Bachelor of Science in Building Sciences with a concentration in Architectural Technology and Design (577B/52.2001). The revised program of study is at the end of the minutes.

U_FAA_STBE_2022_12 Revise the program of study for the Bachelor of Science in Building Sciences with a concentration in Construction Management (577C/52.2001). The revised program of study is at the end of the minutes.

U_FAA_STBE_2022_13 Revise the program of study for the Bachelor of Science in Building Sciences with a concentration in Sustainable Building Systems (577D/52.2001). The revised program of study is at the end of the minutes.

GU_FAA_STBE_2022_14 Change the course prefix and number of the dual-listed **TEC 4618 – Sustainable Building Design and Construction (3)** [DELETE TEC 4618 and ADD BSC 4435] to read as follows:
BSC 4435/TEC 5618 **- Sustainable Building Design and Construction (3)**
When Offered: Fall; Spring
This course emphasizes concepts and best practices related to sustainable building design and construction. Provides exposure to green building certification programs, high performance construction assemblies, resource efficient material selection, sustainable site planning, water efficiency, energy efficiency, indoor environmental quality, building commissioning, and facility operations. Reinforces application of passive design strategies and analysis of sustainable construction practices.
Prerequisite: BSC 2420
[Dual-listed with TEC 5618.] Dual-listed courses require senior standing; juniors may enroll with permission of the department.

TEC 4618 and BSC 4435 are equivalent.

Courses affected: None
POS affected: 571A, 577B, 577C, 577D, SDT, STEM

Change the course prefix and number of the dual-listed course **TEC 4729 – Healthy Buildings (3)** [DELETE TEC 4729 and ADD BSC 4445] to read as follows:
BSC 4445/TEC 5729 **- Healthy Buildings (3)**
When Offered: Fall
An occupant-focused approach to building science that emphasizes the health and well-being of occupants as a fundamental requirement for building design, construction and operation. Course material and field exercises will include building functions and associated design elements, potential issues and solutions in four areas of Indoor Environmental Quality (thermal comfort, noise, lighting, indoor air quality), and building evaluation

and diagnostic techniques for healthy building assessment. Lecture two hours, laboratory three hours.
Prerequisite: BSC 2420
[Dual-listed with TEC 5729.] Dual-listed courses require senior standing.

TEC 4729 and BSC 4445 are equivalent.

Course affected: TEC 4788
POS affected: 577B, 577C, 577D

U_FAA_STBE_2022_15 Add an undergraduate certificate in Electric Vehicles (616A/15.0507). The new program of study is at the end of the minutes.

U_FAA_STBE_2022_16 Revise the program of study for the Bachelor of Science in Sustainable Technology (571A/15.0507). The revised program of study is at the end of the minutes.

U_FAA_STBE_2022_17 Change the prerequisite statement of **TEC 2024 – Introduction to Electronics (3)** to read as follows:
Prerequisites: MAT 1020 or higher, PHY 1104, and BSC 1110.

GU_FAA_STBE_2022_18 Change the course prefix and number and remove the dual-listing of **TEC 4758 – Planning and Scheduling (3)** [DELETE TEC 4758 and ADD BSC 3630] to read as follows:
BSC 3630 - Planning and Scheduling (3)
When Offered: Fall; Spring
This course emphasizes the complex process of planning and scheduling for construction projects. The course covers project management basics, determining project resources, planning, scheduling, and cost control. Special attention will be given to the use of building information modeling (BIM) and specialized scheduling software for construction management activities. Lecture two hours, laboratory two hours.
Prerequisites: BSC 2420, BSC 3620, and BSC 3330

TEC 4758 and BSC 3630 are equivalent.

Course affected: TEC 4768
POS affected: 577B, 577C, 577D

Vote 6 – To approve the proposal from the Department of Sustainable Technology and the Built Environment - PASSED

Old Business

Other

Adjournment

Vote 7 – To approve the motion to adjourn - PASSED

The recommendations from the February 1, 2023 Undergraduate Academic Policies and Procedures Committee meeting are approved.

Heather Norris *4/18/2023*

Heather Hulburt Norris Date
Provost and Executive Vice Chancellor

TO: AP&&P
FROM: Dr. Ted Zerucha, Assistant Vice Provost, General and Experiential Education
Re: Actions taken at the General Education Council meeting – January 27, 2023
Date: January 31, 2023

The General Education Council met for its regularly scheduled meeting on Friday, January 27, 2023 at 3:00 pm via Zoom. The following actions were taken:

VOTE 1:
Minutes from December 2, 2022 meeting – motion to approve made and seconded
Yes = 12 No = 0 Abstain = 2 *Motion carried – minutes approved as written*.

VOTE 2:
Science Inquiry – Chemistry of Life
Chemistry of Life new Science Inquiry theme
CHE 1051, Chemistry of Life I
CHE 1052, Chemistry of Life II
CHE 1053, Chemistry of Life Laboratory I
CHE 1054, Chemistry of Life Laboratory II
Yes = 14 No = 0 Abstain = 1 *Theme and courses approved*.

VOTE 3:
Writing in the Discipline (ADD) - *add prerequisite of RC 2001 or equivalent*
BSC 4901, Internship Portfolio
CHE 3000, Introduction to Chemical Research
Yes = 15 No = 0 Abstain = 0 *Courses approved.*

VOTE 4:
Writing in the Discipline (DELETE)
BIO 3314, Comparative Vertebrate Zoology (multiple other WID courses available for BIO majors)
COM 3302, Copywriting for Advertising (COM 3430 will be required WID course for Advertising majors)
CHE 3303, Physical Chemistry I Laboratory (being replaced by CHE 3000 as WID for CHE majors)
REL 3710, Religion, Ecology, and Biology (REL 3700 is required WID course for REL majors)
REL 3725, Religion and Empire (REL 3700 is required WID course for REL majors)
REL 3735, Gender, Sexuality, and Biblical Interpretation (REL 3700 is required WID course for REL majors)
REL 3740, Religion and Social Theory (REL 3700 is required WID course for REL majors)
REL 3745, Religious Studies in the Digital Age (REL 3700 is required WID course for REL majors)
REL 3750, Minds, Brain, and Religion (REL 3700 is required WID course for REL majors)
REL 3760, Religion and Reason (REL 3700 is required WID course for REL majors)
REL 3770, Religion, Gender, and the Body (REL 3700 is required WID course for REL majors)
Yes = 15 No = 0 Abstain = 1 *Courses approved*.

VOTE 5:
Senior Capstone
BSC 4900, Internship
UCO 4900, Capstone Internship in Professional Studies
Yes = 15 No = 0 Abstain = 1 *Courses approved.*

VOTE 6:

Liberal Studies Experience

ENG 2080, Writing for Change: Advocacy Writing
ENG 2090, Rhetorics
MGT 2030, The Business of Building a Better World
PHL 1040, Critical Thinking Skills
PHL 3010, Philosophy of Disability
PHL 3040, Social and Political Philosophy
PHL 3060, Philosophy and Mass Incarceration
REL 2140, Hinduism
REL 2210, Religions of China
REL 2220, Religions of Japan
REL 3710, Religion, Ecology, and Biology
REL 3735, Gender, Sexuality, and Biblical Interpretation
REL 3750, Minds, Brain, and Religion
SD 2800, Environmental Justice and Sustainable Development

Yes = 15 No = 0 Abstain = 1 *Courses approved.*

VOTE 7:

Historical Studies designation

REL 2210, Religions of China
REL 2220, Religions of Japan

Yes = 15 No = 0 Abstain = 1 *Courses approved*.

VOTE 8:

Literary Studies designation

REL 3735, Gender, Sexuality, and Biblical Interpretation

Yes = 15 No = 0 Abstain = 1 *Course approved.*

VOTE 9:

Social Science designation

MGT 2030, The Business of Building a Better World
REL 1110, Religions of the World
REL 3710, Religion, Ecology, and Biology
REL 3750, Minds, Brain, and Religion
SD 2400, Principles of Sustainable Development
SD 2800, Environmental Justice and Sustainable Development

Yes = 15 No = 0 Abstain = 1 *Course approved*.

FIO Items

-ANT 4471, Capstone: Cultural Artifacts (Senior Capstone), change title to Capstone: Material Culture
-COM 3300, Mass Media and Society (Liberal Studies Experience), change title to Media in Society
-CI/ITC 2010, Narrative, New Media and Gaming (ILE How We Tell Stories), change prefix to MTL
-ENG 4300, Seminar in Professional Writing (Senior Capstone), change title to Seminar in Rhetoric and Writing Studies
-PHY 4210, Methods of Experimental Physics (Senior Capstone), change title to Senior Seminar
-PS 3565, Political Economy (Writing in the Discipline), change title to Comparative Political Economy

TO: AP&P
FROM: Dr. Ted Zerucha, Assistant Vice Provost, General and Experiential Education
Re: Actions taken at the General Education Council meeting – February 24, 2023
Date: February 27, 2023

The General Education Council met for its regularly scheduled meeting on Friday, February 24, 2023 at 3:00 pm via Zoom. The following actions were taken:

VOTE 1:
Minutes from January 27, 2023 meeting – motion to approve made and seconded
Yes = 12 No = 0 Abstain = 1 *Motion carried – minutes approved as written*

VOTE 2:
Renew Literary Studies Designation (LS) courses:
ENG 2130, Ethnic American Literature
ENG 2360, American Literature and the Arts
LLC 2025, Literature in Translation
LLC 3430, Arthurian Legends
REL 1010, Religion and Imaginary Worlds
REL 2010, Old Testament: The Jewish Scriptures
REL 2020, New Testament
REL 2030, Islamic Literature
WRC 2403, The Practice of Poetry: Where Your Life Still Matters
Yes = 15 No = 0 Abstain = 0 *Renewals approved.*

VOTE 3:
Renew Science Inquiry Designation (SI) courses:
CHE 1101, Introductory Chemistry I
CHE 1102, Introductory Chemistry II
CHE 1110, Introductory Chemistry Laboratory I
CHE 1120, Introductory Chemistry Laboratory II
Yes = 15 No = 0 Abstain = 0 *Renewals approved.*

VOTE 4:
Renew Fine Arts Designation (FA) courses:
ART 2022, Cultivating Creative Expression Teaching Visual Arts
DAN 2010, Exploring the Arts: Dance
DAN 2020, World Dance
DAN 2030, Dance, Media, and Culture
IND 1401, Product Design
INT 1300, Design Matters
THR 2005, Page & Stage
THR 2010, The Theatre Experience
THR 2020, World Culture & Performance Studies
THR 2022, Cultivating Creative Expression Through Theatre
THR 3640, Solo and Group Performance
Yes = 15 No = 0 Abstain = 0 *Renewals approved*.

VOTE 5:

Motion for General Education Council to not consider proposals from departments with unsubmitted renewals after one year from the due date.

Yes = 13 No = 0 Abstain = 0 *Motion carried.*

Semester Offering Changes

MUS 3002 changed from Fall to Spring, Even-numbered years
MUS 3009 changed from Fall; Spring to Spring
MUS 4600 / MUS 5600 changed from Fall to Spring, Odd-numbered years
ES 2020 changed from Fall; Spring to On Demand
ES 3005 changed from Fall; Spring to On Demand
ES 4620 changed from Fall to On Demand
ES 4625 changed from Fall to On Demand
ES 4645 changed from Spring to On Demand
HCM 3680 changed from Fall; Spring to Fall
CSD 5675 changed from Fall to Fall; Spring
CSD 4845 / CSD 5845 changed from Fall; Spring to Fall
ART 2018 changed from Fall to Fall; Spring
ART 2040 changed from Fall; Spring to Spring
ART 2602 changed from Spring to Fall; Spring
ART 3017 changed from Spring to Fall; Spring
ART 3109 changed from Spring to Spring, Even-numbered years
ART 3110 changed from Spring to Spring, Odd-numbered years
ART 3111 changed from Fall to Fall, Odd-numbered years
ART 3200 changed from Fall; Spring to On Demand
ART 3201 changed from Spring to On Demand
ART 3333 changed from Fall to Fall; Spring
ART 3969 changed from Spring to Fall; Spring
PHO 2052 changed from Fall; Spring to On Demand
PHO 2062 changed from On Demand to Spring
PHO 3032 changed from On Demand to Fall; Spring
PHO 3092 changed from Fall; Spring to Fall
PHO 3332 changed from Fall; Spring to On Demand
PHO 4422 changed from Fall; Spring to On Demand
GCM 3102 changed from Fall; Spring to Spring
GCM 3512 changed from Fall; Spring to Fall
GCM 3622 changed from Fall; Spring to Spring
GCM 4522 changed from Spring to On Demand
GCM 4524 changed from Spring to On Demand
GCM 4558 changed from Fall; Spring to Fall
GCM 4622 changed from Fall to Spring

Dear Campus Colleagues,

Academic Affairs announces the reorganization of the Reich College of Education. The Reich College of Education has been working through a re-envisioning process of its academic departments and structures since early 2021. This re-envisioning of academic departments and programs will strengthen programs and help to build more intentional connections between program areas.

Future Department Structure: Effective July, 1 2023
Child Development, Literacy, and Special Education: CLSE (CLE)
Counseling, Family Therapy, and Higher Education: CTH (CTH)
Leadership and Educational Studies: LES (LES)
Learning, Teaching, and Curriculum: LTC (LTC)
Media, Career Studies, and Leadership Development: MCL (MCL)
Current Department Structure
Curriculum and Instruction: CI (C I)
Family and Child Studies: FCS (FCS)
Human Development and Psychological Counseling: HPC (HPC)
Leadership and Educational Studies: LES (LES)
Reading Education and Special Education: RESE (LRE)

Please see the attached document for detailed changes in department and program structures within the Reich College of Education. If you have any questions, please contact Dr. Terry McClannon, Associate Dean for Student Affairs and Program Services (mcclannontw@appstate.edu)

For catalog and Banner (Student Records & Student Curriculum) purposes, the department name changes and reorganization are effective: Fall 2023 for the 2023-2024 undergraduate and graduate bulletins.

For budgeting and contract purposes, the effective date will be **July 1, 2023**.

Sincerely,
Office of Academic Affairs

Reich College of Education

Department and Program Structure Changes

Future Department Structure: Effective July, 1 2023
Child Development, Literacy, and Special Education: CLSE (CLE)
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Leadership and Educational Studies: LES (LES)
Reading Education and Special Education: RESE (LRE)

Child Development, Literacy, and Special Education: CLSE

	Programs	Current Department	Department: Effective July1, 2023
1	Autism Graduate Certificate 718A	RESE	CLSE
2	Autism Graduate Minor 474	RESE	CLSE
3	Birth through Kindergarten Graduate Certificate 719A	FCS	CLSE
4	Child Development - Birth to Kindergarten Concentration, BS 510G	FCS	CLSE
5	Child Development - Family and Child Studies Concentration, BS 510H	FCS	CLSE
6	Child Development Minor 510	FCS	CLSE
7	Emotional and Behavioral Disorders Graduate Certificate 717A	RESE	CLSE
8	Family and Consumer Sciences Graduate Minor 527	FCS	CLSE
9	Reading Education - Adult Literacy Concentration, MA 477B Effective Fall 2023 (Pending UNC System Approval): Literacy Education- Adult Literacy Concentration, MA 857B	RESE	CLSE
10	Reading Education - Classroom/Clinical Concentration (leads to advanced teaching licensure), MA 477E Effective Fall 2023 (Pending UNC System Approval): Literacy Education- Classroom/Clinical Concentration (leads to advanced teaching licensure), MA 857C	RESE	CLSE
11	Reading Education Graduate Certificate 449A Effective Fall 2023: Literacy Education Graduate Certificate 856A	RESE	CLSE
12	Reading Education, MA 477* Literacy Education, MA 857* (Effective Fall 2023: Pending UNC System Approval)	RESE	CLSE
13	Special Education - Adapted Curriculum K-12 Concentration, BS 478C	RESE	CLSE
14	Special Education - General Curriculum K-12 Concentration, BS 478B	RESE	CLSE
15	Special Education Graduate Certificate 720A	RESE	CLSE
16	Special Education, General Minor 487	RESE	CLSE
17	Special Education, MA 476A	RESE	CLSE

Counseling, Family Therapy, and Higher Education: CTH

	Programs	Current Department	Department: Effective July1, 2023
1	Addiction Counseling Graduate Certificate 423A	HPC	CTH
2	Clinical Mental Health Counseling - Addictions Counseling Concentration, MA 709B Effective Fall 2023: Per GAPP 2023, concentration will be deleted	HPC	CTH
3	Clinical Mental Health Counseling - Body Centered Therapy Concentration, MA 709C Effective Fall 2023: Per GAPP 2023, concentration will be deleted	HPC	CTH
4	Clinical Mental Health Counseling - Clinical Mental Health Counseling, General Concentration, MA 709D Effective Fall 2023: Per GAPP 2023, concentration will be deleted	HPC	CTH
5	Clinical Mental Health Counseling - Clinical Mental Health Counseling, General Concentration, MA and Music Therapy, MMT 709D & 560A Effective Fall 2023: Per GAPP February 2023, changed to CMHC 709A - no concentration	HPC	CTH
6	Clinical Mental Health Counseling - Expressive Arts Therapy Concentration, MA 709E Effective Fall 2023: Per GAPP 2023, concentration will be deleted	HPC	CTH
7	Clinical Mental Health Counseling - Marriage and Family Counseling Concentration, MA 709F Effective Fall 2023: Per GAPP 2023, concentration will be deleted	HPC	CTH
8	Clinical Mental Health Counseling, MA. 709A Effective Fall 2023: Per GAPP- January 2023	HPC	CTH
9	College and University Teaching Graduate Certificate 497A	LES	CTH
10	Expressive Arts Therapy Graduate Certificate 425A	HPC	CTH
11	Higher Education - Adult and Developmental Education Concentration, EdS 455F	LES	CTH
12	Higher Education - Adult and Developmental Education Concentration, MA 454F	LES	CTH
13	Higher Education - Community College and University Leadership Concentration, EdS 455G	LES	CTH
14	Higher Education - Community College and University Leadership Concentration, MA 454G	LES	CTH
15	Higher Education - Teaching Concentration, EdS 455E	LES	CTH
16	Higher Education - Teaching Concentration, MA 454E	LES	CTH
17	Leadership Studies Minor 429	HPC	CTH
18	Marriage and Family Therapy, MA 468A	HPC	CTH
19	Professional School Counseling, MA 427A	HPC	CTH
20	Student Affairs Administration, MA 712A	HPC	CTH
21	Systemic Multicultural Counseling Graduate Certificate 447A	HPC	CTH

Leadership and Educational Studies: LES

	Programs	Current Department	Department: Effective July1, 2023
1	Educational Foundations	LES	LES
2	Educational Leadership - Educational Administration Concentration, EdD 702D	EDL	LES
3	Educational Leadership - Educational Administration, EdD and Educational Administration, EdS 702D & 428A	EDL	LES
4	Educational Leadership - Expressive Arts Education, Leadership and Inquiry Concentration, EdD 702G *Pending deletion, per GAPP February 2023	EDL	LES
5	Educational Leadership - Higher Education Concentration, EdD and Higher Education - Community College & University Leadership Concentration, EdS 702F & 455G	EDL	LES
6	Educational Leadership - Higher Education Concentration, EdDS 702F	EDL	LES
7	Educational Leadership - Instructional Technology Leadership, EdD 702H	EDL	LES
8	Educational Leadership - Interdisciplinary Studies Concentration, EdD 702J	EDL	LES
9	Educational Leadership - Literacy in Exceptionalities Concentration, EdD 702I	EDL	LES
10	Research	LES	LES

Learning, Teaching, and Curriculum: LTC

	Programs	Current Department	Department: Effective July1, 2023
1	Curriculum Specialist, MA 416A	CI	LTC
2	Elementary Education Graduate Certificate 429A	CI	LTC
3	Elementary Education, BS. 441A	CI	LTC
4	Elementary Education, MA 422A	CI	LTC
5	Elementary Mathematics Education Graduate Certificate 711A	CI	LTC
6	Middle and Secondary Teaching Graduate Certificate 446A	CI	LTC
7	Middle Grades Education - Language Arts and Mathematics Concentrations, BS (470K)	CI	LTC
8	Middle Grades Education - Language Arts and Science Concentrations, BS (470L)	CI	LTC
9	Middle Grades Education - Language Arts and Social Studies Concentrations, BS (470M)	CI	LTC
10	Middle Grades Education - Language Arts Concentration, MA 472B	CI	LTC
11	Middle Grades Education - Mathematics and Science Concentrations, BS (470N)	CI	LTC
12	Middle Grades Education - Mathematics and Social Studies Concentrations, BS (470P)	CI	LTC
13	Middle Grades Education - Mathematics Concentration, MA 472C	CI	LTC
14	Middle Grades Education - Science and Social Studies Concentrations, BS (470R)	CI	LTC
15	Middle Grades Education - Science Concentration, MA 472D	CI	LTC
16	Middle Grades Education - Social Studies Concentration, MA 472E	CI	LTC
17	Teacher Education for Theatre Arts Minor 438	CI	LTC
18	Teaching Emergent Bilingual Populations in Content Areas Graduate Certificate 439A	CI	LTC

MCL: Media, Career Studies, and Leadership Development

	Programs	Current Department	Department: Effective July1, 2023
1	Career & Technical Education - Agriculture Education. 456/456H	CI	MCL
2	Career & Technical Education - Business, Finance and Information Technology Education Concentration, BS 456/456B	CI	MCL
3	Career & Technical Education - Business, Marketing and Entrepreneurship Education Concentration, BS. 456/456C	CI	MCL
4	Career & Technical Education - Family and Consumer Sciences Education Concentration, BS. 456D	CI	MCL
5	Career & Technical Education - Technology, Engineering and Design Education Concentration, BS 456E	CI	MCL
6	Career & Technical Education - Trade and Industry Education Concentration, BS. 456F	CI	MCL
7	Career & Technical Education - Workforce Leadership & Development. 456I	CI	MCL
8	Career and Technical Education Graduate Certificate Effective Fall 2023: Per GAPP February 2023	CI	MCL
9	Digital Media Literacy Graduate Certificate 941A	LES	MCL
10	Educational Administration, EdS 428A	LES	MCL
11	Family and Consumer Sciences Minor 526	CI	MCL
12	Instructional Technology Facilitation Graduate Certificate 464A	LES	MCL
13	Instructional Technology Leadership Graduate Certificate 431A	LES	MCL
14	International Leadership Graduate Certificate 716A	LES	MCL
15	Library Science, MLS 465A	LES	MCL
16	Library Science, MLS and Media, Technology and Learning Design - Instructional Technology K-12 Facilitation Concentration, MA 465A & 400C	LES	MCL
17	Media Studies Minor 467	CI	MCL
18	Media, Technology, & Learning Design - Instructional Technology K-12 Facilitation Concentration, MA 400C	LES	MCL
19	Media, Technology, & Learning Design - Instructional Technology Specialist Concentration, MA 400D	LES	MCL
20	Media, Technology, & Learning Design - Online Design, Communication and Engagement Concentration, MA 400D	LES	MCL
21	Online Design, Communication and Engagement Graduate Certificate 944A	LES	MCL
22	School Administration, MSA 433A	LES	MCL
23	School Leadership Graduate Certificate 473A	LES	MCL
24	Workforce Leadership and Development Minor 411	CI	MCL

Reich College of Education
Course Prefixes by Departments

Course Prefixes by Department: Effective Fall 2023						Current Prefixes by Department						
CLSE	**CTH**	**LES**	**LTC**	**MCL**	**College-Level**	**CI**	**FCS**	**HPC**	**LES**	**RESE**	**EDL**	**College-level**
FCS	H E	EDL	C I	CTE	EDU	CI	FCS	HPC	FDN	R E	EDL	EDU
LIT: Effective Fall 2023	SAA: Effective Fall 2023	RES		LSA		CTE			H E	SPE		
SPE	MFT: Effective Fall 2023	FDN		LIB					ITC			
R E: Delete Fall 2023	LDS: Effective Fall 2023			MTL					LES			
	CED: Effictive Fall 2023			LES					LSA			
	HPC: Delete Fall 2023			ITC: Delete Fall 2023					RES			
									LIB			
									MTL			

Future Department Structure: Effective July, 1 2023
Child Development, Literacy, and Special Education: CLSE (CLE)
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Learning, Teaching, and Curriculum: LTC (LTC)
Media, Career Studies, and Leadership Development: MCL (MCL)

Current Department Structure
Curriculum and Instruction: CI (C I)
Family and Child Studies: FCS (FCS)
Human Development and Psychological Counseling: HPC (HPC)
Leadership and Educational Studies: LES (LES)
Reading Education and Special Education: RESE (LRE)

Nursing, BSN

Program Code: 809A
CIP Code: 51.3801
Non-Teaching

Department Chair: Dr. Kathleen Rayman
828-262-8039 **raymankm@appstate.edu**
Program Director: Dr. Jean Bernard
828-262-8468 **bernardjs@appstate.edu**

General Education Requirements (44 Hours)

- **General Education Requirements**

The following major requirements may also count in General Education:

- **CHE 1101 - Introductory Chemistry I (3)**
- **CHE 1102 - Introductory Chemistry II (3)**
- **CHE 1110 - Introductory Chemistry Laboratory I (1)**
- **CHE 1120 - Introductory Chemistry Laboratory II (1)**
- **PSY 1200 - Psychological Foundations (3) [GenEd: SS]**
- **NUT 2202 - Nutrition and Health (3)**
- (Note: 2 hours of NUT 2202 may be counted in General Education)
- **SOC 1000 - The Sociological Perspective (3) [GenEd: SS]**
-
- **PHL 2000 - Philosophy, Society, and Ethics (3)**
- or
- **PHL 3015 - Medical Ethics (3)**

Major Requirements (101 Hours)

BSN GPA requirements: 3.0 cumulative GPA required for admission*, 2.5 cumulative and 2.5 major GPA (NUR courses) required for retention, and 2.5 cumulative and 2.5 major GPA (NUR courses) required for graduation.

*Note that admission is competitive and requires an application process. Declaration of major happens after a student has been provisionally accepted into the BSN program. Please see nursing.appstate.edu for more information.

BSN grade requirements: All BSN majors must earn a minimum grade of "C" (2.0) in each required course on the major program of study. Students must earn a minimum grade of "B-" (2.7) in **CHE 1101**, **CHE 1102**, **CHE 1110**, **CHE 1120**, **ES 2040**, **ES 2050**, and **BIO 2200**.
Students may be allowed to repeat one nursing (NUR) course one time if they earn a grade below "C." (2.0) Failure to achieve a grade of at least a "C" (2.0) in a nursing (NUR) course results in dismissal from the nursing program. Students should refer to **nursing.appstate.edu** for complete policies and procedures regarding progression in the BSN program, dismissal from the BSN program and possible readmission to the BSN program following dismissal.

Foundation Courses that may also satisfy general education requirements (20 Hours)

- **CHE 1101 - Introductory Chemistry I (3)**
- **CHE 1102 - Introductory Chemistry II (3)**
- **CHE 1110 - Introductory Chemistry Laboratory I (1)**
- **CHE 1120 - Introductory Chemistry Laboratory II (1)**
- **PSY 1200 - Psychological Foundations (3) [GenEd: SS]**
- **NUT 2202 - Nutrition and Health (3)** (Note: 2 hours of **NUT 2202** may be counted in General Education)
- **SOC 1000 - The Sociological Perspective (3) [GenEd: SS]**
-
- **PHL 2000 - Philosophy, Society, and Ethics (3)**
- or
- **PHL 3015 - Medical Ethics (3)**

Major Requirements (81 Hours)

- **BIO 2200 - Human Microbiology (4)**
- **ES 2040 - Human Anatomy (4)**
- **ES 2050 - Human Physiology (4)**
- **NUR 3040 - Pharmacology I (2)**

- **NUR 3050 - Pharmacology II (2)**
- **NUR 3100 - Adult Health Nursing I (3)**
- **NUR 3102 - Adult Health Nursing II (3)**
- **NUR 3110 - Adult Health Nursing I Clinical (3)**
- **NUR 3112 - Adult Health Nursing II Clinical (3)**
- **NUR 3115 - Pathophysiology in Nursing (3)**
- **NUR 3121 - Health Assessment Across the Lifespan (3)**
- **NUR 3123 - Health Assessment Across the Lifespan Lab/Clinical (1)**
- **NUR 3300 - Fundamentals of Nursing Practice (3)**
- **NUR 3302 - Fundamentals of Nursing Practice Lab/Clinical (3)**
- **NUR 3400 - Socialization to Professional Nursing (2) [WID]** [WID]
- **NUR 3450 - Mental Health and Nursing Care of Communities (5)**
- **NUR 3452 - Mental Health and Nursing Care of Communities Clinical (3)**
- **NUR 4110 - Adult Health Nursing III (3)**
- **NUR 4112 - Adult Health Nursing III Clinical (3)**
- **NUR 4124 - Nursing Care of Childbearing Families, Women, and Children (5)**
- **NUR 4127 - Nursing Care of Childbearing Families, Women, and Children Clinical (3)**
- **NUR 4128 - Leadership and Management in Nursing (3)**
- **NUR 4130 - Professional Nursing Capstone (3) [CAP]** [CAP]
- **NUR 4145 - Nursing Synthesis (1)**
- **NUR 4200 - Introduction to Nursing Research (2)**
- **NUR 4210 - Nursing Research Application (1)**
- **PSY 2210 - Psychology of Human Growth and Development (3)**
- **STT 1810 - Basic Statistics (3)**

General Education courses taken for the major (-19 Hours)

Total Required (126 Hours)

Department of Nursing

Bachelor of Science in Nursing (BSN) (809A/51.3801)

[This program is for students who have the educational goal of obtaining the Bachelor of Science in Nursing degree in order to be eligible to sit for the National Council Licensing Examination (NCLEX) to become a registered nurse (RN).]

The Appalachian State University Bachelor of Science in Nursing (BSN) degree program is accredited by the Commission on Collegiate Nursing Education (CCNE). The BSN program is designed to provide an undergraduate student the opportunity to earn a Bachelor of Science in Nursing (BSN) degree, leading to licensure as a Registered Nurse.

BSN GPA requirements: 3.0 cumulative GPA required for admission*, 2.5 cumulative and 2.5 major GPA (NUR courses) required for retention, and 2.5 cumulative and 2.5 major GPA (NUR courses) required for graduation.

*Note that admission is competitive and requires an application process. Declaration of major happens after a student has been provisionally accepted into the BSN program. Please see **nursing.appstate.edu** for more information.
BSN grade requirements: All BSN majors must earn a minimum grade of "C" (2.0) in each required course on the major program of study. Students must earn a minimum grade of "B-" (2.7) in **CHE 1101**, **CHE 1102**, **CHE 1110**, **CHE 1120**, **ES 2040**, **ES 2050**, and **BIO 2200**.

Admission Criteria

The application deadline for admission is the first day of the spring semester. Acceptance into the prelicensure BSN program is based on the student's application, earned GPA, and academic performance on selected preliminary course work. Scores from standardized tests and other methods of evaluation may also be considered when evaluating applicants.

Beginning with the January 2022 admissions cycle, students will be required to be a certified nursing assistant (CNA) before applying to the program. Specific guidelines on admission requirements and application forms are available on the Department of Nursing website at **nursing.appstate.edu/students/admissions**.

Students must apply for admission to Appalachian State University prior to admission to the BSN degree nursing program. Acceptance to the University, completion of

preliminary course work, GPA, and standardized tests do not guarantee admission to the BSN program. Admission of students is a competitive process. Not all applicants who meet the requirements can be accommodated; therefore, applicants whose credentials present the best qualifications of those meeting requirements will be selected.

Academic Standards for Retention in the BSN Program

To progress from one semester to the next in the BSN program, a student must earn a minimum grade of "C" (2.0) or higher in each required course counted towards the program of study (81 credit hours), and achieve a grade of "Satisfactory" in each clinical nursing course. If a student receives a grade of "Incomplete" for a nursing course, the "Incomplete" must be satisfied with a grade of "C" (2.0) or higher before a student may progress to the next semester of nursing courses. Students must also maintain a cumulative GPA and a major GPA (NUR courses) of at least 2.5 at the end of the junior spring semester and each semester thereafter; maintain current CPR certification at the healthcare provider level; maintain yearly tuberculosis screening; meet all current health and immunization requirements of the Department of Nursing; and adhere to all policies of the University, the Nursing Department, and the clinical agencies where assigned for clinical experiences. Failure to meet these standards may result in dismissal from the program.

Students may be allowed to repeat one nursing (NUR) course one time if they earn a grade below "C." (2.0) Failure to achieve a grade of at least a "C" (2.0) in a nursing (NUR) course results in dismissal from the nursing program. Students should refer to **nursing.appstate.edu** for complete policies and procedures regarding progression in the BSN program, dismissal from the BSN program and possible readmission to the BSN program following dismissal.

Beaver College of Health Sciences

Bachelor of Science in Nursing

To earn the Bachelor of Science in Nursing in the Beaver College of Health Sciences, the student must meet the following requirements:

1. Completion of at least 126 semester hours (120 for the RN to BSN program) with a minimum cumulative GPA of 2.5 and a minimum major GPA (NUR courses) of 2.5
2. Completion of general education requirements (or the RN to BSN required core)
3. Completion of major requirements for the Nursing major (See the Department of Nursing.)
4. Students must earn a minimum grade of "C" (2.0) in EACH each required course counted towards the program of study (81 credit hours for the BSN, and NUR courses for the RN to BSN).
5. Electives to complete 126 semester hours (120 for the RN to BSN program).
6. Compliance with regulations concerning the settlement of all expense accounts

Meeting graduation requirements is the responsibility of the student.

Veterinary Technology, BS

Program Code: 923A
CIP Code: 01.8301

General Education Requirements (44 Hours)

General Education Requirements
CHE 1101-**CHE 1110** and **CHE 1102**-**CHE 1120** or **CHE 1051-CHE 1053 and CHE 1052-CHE 1054** fulfill the Science Inquiry. **MAT 1020** fulfills the Quantitative Literacy requirement. **PH 2000** will count in the General Education, Liberal Studies Experience.

Major Requirements (76 Hours)

Not including 15 semester hours already counted in General Education Requirements, above

Successful completion of VTN 1030 [with a minimum grade of "C" (2.0)] and VTN 1040 required for major declaration.
~~**In order to remain in the Veterinary Technology program, students must maintain a minimum 2.5 cumulative grade-point average (GPA) and earn a minimum grade of "C" (2.0) in VTN 1030.**~~

2.5 major GPA is required for graduation. 2.0 ~~major~~ cumulative GPA is required for graduation. Major GPA calculation will include all courses taken in the major discipline plus any other courses under Major Requirements. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.

Veterinary Technology Core Requirements (53 Hours)

VTN 1030 - Introduction to Veterinary Nursing (3)
VTN 1040 - Animal Behavior and Handling (3)
VTN 2010 - Animal Anatomy (3)
VTN 2020 - Animal Physiology (3)
VTN 2030 - Small Companion Animal Nursing (3)
VTN 2050 - Veterinary Surgical Nursing (3)
VTN 2060 - Veterinary Clinical Pathology I (3)
VTN 2090 - Large, Laboratory, and Exotic Animal Nursing (3)
VTN 2998 - Clinical Externship (1-3) **Students must complete a minimum of six semester hours of **VTN 2998**. Externship registration is to be planned and approved in consultation with the Externship Coordinator.
VTN 3010 - Introduction to Veterinary Practice Management (2)
VTN 3020 - Introduction to Veterinary Dentistry (2)
VTN 3030 - Principles of Veterinary Pharmacology (2)
VTN 3040 - Veterinary Clinical Pathology II (3)
VTN 3060 - Veterinary Diagnostic Imaging (2)
VTN 3070 - Veterinary Anesthesia and Analgesia (3)
VTN 3080 - Professional Communication Skills in Veterinary Medicine (2) [WID]
VTN 3100 - Introduction to Veterinary Emergency Medicine (3)
VTN 4300 - Compassionate End of Life Care (1)
VTN 4800 - Professional Veterinary Technology Capstone (3) [CAP]

Veterinary Studies Focus Area (15 Hours)

In consultation with your advisor, choose 15 hours from one of the following Focus Areas provided below (Students must complete 45 hours of VTN coursework AND receive permission of program advisor to register for focus area coursework):

Companion Animal Focus Area (Choose 15 hours from course options below)

VTN 4010 - Veterinary Nursing Care Plan Design: Evidence Based Practices (2)

VTN 4020 - Physical Rehabilitation and Complementary Medicine for the Veterinary Technician/Veterinary Nurse (2)
VTN 4030 - Advanced Emergency and Critical Care for the Veterinary Technician/Veterinary Nurse (2)
VTN 4040 - Advanced Veterinary Dentistry for the Veterinary Technician/Veterinary Nurse (2)
VTN 4060 - Advanced Companion Animal Preventive Care for the Veterinary Technician/Veterinary Nurse (2)
VTN 4070 - Ultrasound Skills for the Veterinary Technician/Veterinary Nurse (2)
VTN 4080 - Animal Hospice and Palliative Care for the Veterinary Technician/Veterinary Nurse (2)
VTN 4090 - Advanced Clinical Nutrition for the Veterinary Technician/Veterinary Nurse (2)
VTN 4100 - Advanced Internal Medicine Topics for the Veterinary Technician/Veterinary Nurse (2)
VTN 4250 - Leadership and Empowered Teams in Veterinary Medicine (2)
VTN 4998 - Track Specific Clinical Externship (1-3) (Strongly recommended)

Practice Management Focus Area (Choose 15 hours from course options below)

MGT 3620 - Human Resource Management (3)
MGT 3660 - Negotiation and Conflict Resolution (3)
VTN 4110 - Veterinary Medical Ethics and Legal Issues (3)
VTN 4120 - Principles of Veterinary Practice Management (3)
VTN 4130 - Finance for Veterinary Practice Managers (3)
VTN 4140 - Veterinary Client Relationship Management (3)
VTN 4150 - Veterinary Entrepreneurship and Innovation (3)
VTN 4250 - Leadership and Empowered Teams in Veterinary Medicine (2)
VTN 4998 - Track Specific Clinical Externship (1-3) (Strongly recommended)

One Health Focus Area (Choose 15 hours from course options below)

PH 3130 - Environmental Health (3)

PH 3600 - Global Public Health (3)
PH 4650 - Seminar in Rural Public Health (3)
VTN 4210 - Advanced Laboratory Animal Nursing Topics for the Veterinary Technician/Veterinary Nurse (3)
VTN 4220 - Advanced Large Animal Nursing Topics for the Veterinary Technician/Veterinary Nurse (3)
VTN 4230 - Advanced Exotic Animal and Wildlife Nursing Topics for the Veterinary Technician/Veterinary Nurse (3)
VTN 4240 - Veterinary Public Health (3)
VTN 4250 - Leadership and Empowered Teams in Veterinary Medicine (2)
VTN 4998 - Track Specific Clinical Externship (1-3) (Strongly recommended)

Required Cognate Courses (23 Hours)

Biology (Choose one 8 Hour sequence)

BIO 1201 - Biology in Society I (3)
BIO 1202 - Biology in Society II (3)
BIO 1203 - Biology in Society Laboratory (2)
or
BIO 1801 - Biological Concepts I (4)
BIO 1802 - Biological Concepts II (4)

Chemistry (8 Hours)

CHE 1101 - Introductory Chemistry I (3)
CHE 1110 - Introductory Chemistry Laboratory I (1)
CHE 1102 - Introductory Chemistry II (3)
CHE 1120 - Introductory Chemistry Laboratory II (1)

- or

CHE 1051 – Chemistry of Life I (3)
CHE 1053 – Chemistry of Life Laboratory I (1)
CHE 1052 – Chemistry of Life II (3)
CHE 1054 – Chemistry of Life Laboratory II (1)

Mathematics (4 Hours)

MAT 1020 - College Algebra with Applications (4)

Public Health (3 Hours)

PH 2000 - Introduction to Public Health (3) [GenEd: SS]

Total Required (120 Hours)

Proposed Program of Study 2023-2024

Building Sciences - Architectural Technology and Design Concentration, BS

Return to: **Programs of Study**

Program Code: 577*/577B

CIP Code: 52.2001

General Education (44 hours)

- **General Education Requirements**

Fifteen hours of major requirements fulfill General Education requirements:

- **MAT 1020** fulfills Quantitative Literacy.
- **PHY 1103** and **PHY 1104** fulfills Science Inquiry.
- **TEC 2029** (Integrative Learning Experience: Sustainability and Global Resources and the Social Science)

Elective courses in the major may fulfill up to an additional six hours of General Education requirements:

- **PLN 2410** (Liberal Studies Experience)
- **IND 1401** (LSE and Fine Arts designation)

Major Requirements (91 hours)

18 semester hours must be completed at Appalachian. A laptop computer is required.

A 2.5 cumulative GPA is required for admission into courses from the Intermediate Coursework Sequence.

- Junior Writing in the Discipline (WID) and
- Senior Capstone Experience (CAP) must be met.

Foundation Coursework (15 hours)

Minimum grade of "B" (3.0) in MAT 1020 or higher and "C" (2.0) in other listed courses is required.

- **MAT 1020 - College Algebra with Applications (4)** (or higher). Note: MAT 1025 does not fulfill Gen Ed Quantitative Literacy.
- **TEC 2029 - Society and Technology (3) [GenEd: SS]**
- **PHY 1103 - General Physics I (4)**

- **PHY 1104 - General Physics II (4)**

Introductory Coursework (21 hours)

Minimum grade of "C" (2.0) in each course required

- **TEC 1708 - Construction Methods I (3)** Note: MAT 1020 or higher is required for Building Science majo
- **TEC 1728 - Architectural Graphics and Modeling I (3)** Note: MAT 1020 or higher is required for Buil Science majors
- **TEC 2718 - Building Services (3)** Note: MAT 1020 or higher is required for Building Science majors
- **TEC 2739 - Materials and Structures I (3)** Note: MAT 1020 or higher is required for Building Science m
- **INT 1001 - Visual Literacy I (3)**
- **INT 1002 - Visual Literacy II (3)**
- **INT 2310 - History of Interior Design and Architecture II (3)**

Intermediate Coursework Sequence (9 Hours)

Admission to Intermediate Coursework Sequence (or permission of the Building Sciences Program Director) required for all courses. Minimum grade of "C" (2.0) in each course is required

- **TEC 3038 – Construction Methods II (3)**
- **TEC 3738 – Materials and Structures II (3)**
- **TEC 3748 – Building Science (3)**

Advanced Coursework (~~41 hours~~ 32 Hours)

Minimum grade of "C" (2.0) in each course required

- ~~**INT 3001 - Architecture and Design Internship Workshop (1)**~~
- **INT 4320 - Professional Practices in Design (2)**
- ~~**TEC 3038 - Construction Methods II (3)**~~
- **TEC 3718 - Construction Estimating (3)**
- **TEC 2719 - Surveying Methods (1)**
- **TEC 3728 - Architectural Design Studio I (3)**
- ~~**TEC 3738 - Materials and Structures II (3)**~~
- **TEC 3739 - Materials and Structures III (3)**
- ~~**TEC 3748 - Building Science (3)**~~
- **TEC 3758 - Architectural Design Studio II (3)**
- **TEC 4738 - Architectural Design Studio III (4)**
- **TEC 4748 - Architectural Design Studio IV (4)**
- **TEC 4758 - Planning and Scheduling (3)**
- ~~**TEC**~~ **BSC 4900 - Internship (3-12) [CAP]** (3 sh required for major)
- ~~**TEC**~~ **BSC 4901 - Internship Portfolio (3) [WID]**

Major Electives (14 hours)

Choose from the following:

- **IND 1401 - Product Design (3) [GenEd: FA]**
- **IND 2110 - Introduction to Fabrication (3)**
- **IND 1201 - Design Drawing I (3)**
- **INT 2200 - Interior Design Systems I (3)**
- **INT 2300 - History of Interior Design and Architecture I (3)**
- **INT 3001 - Architecture and Design Internship Workshop (1)**
- **PLN 2410 - Town, City and Regional Planning (3) [GenEd: SS]**
- **PLN 3432 - Planning Techniques (4) [WID]**
- **PLN 3730 - Land, Property, and Law (3)**
- **TEC 2601 - Energy Issues and Technology (3)**
- **TEC 3035 - Architectural Field Study (1-3)**
- **TEC 3036 - Construction Management Field Study (1-3)**
- **TEC 3037 - Sustainable Building Systems Field Study (1-3)**
- **TEC 3520 - Instructional Assistance (1)**
- **TEC 3530-3549 - Selected Topics (1-4)**
- **TEC 3604 - Sustainable Transportation (3)**
- **TEC 3605 - Sustainable Resource Management (3)**
- **TEC 3606 - Sustainable Water and Wastewater Technology (3)**
- **TEC 3609 - Introduction to PV Technology (3)**
- **TEC 3610 - Computer Applications for Renewable Energy Systems (3)**
- **TEC 3807 - Construction Safety (2)**
- **TEC 3900 - Internship: Field Experience (3)**
- **TEC 4530-4549 - Selected Topics (1-4)**
- **TEC 4618 - Sustainable Building Design and Construction (3)**
- **TEC 4628 - Solar Thermal Energy Technology (3)**
- **TEC 4700 - Bioenergy Technology (3)**
- **TEC 4729 - Healthy Buildings (3)**
- **TEC 4768 - Construction Administration (3)**

Minor Not Required

Recommended minors are Community and Regional Planning or Sustainable Technology

Free Electives (0 - 6 hours)

To total a minimum of 120 hours for the degree

Total Hours Required: 120

Proposes Program of Study 2023-2024

Building Sciences - Construction Management Concentration, BS

Return to: **The College of Fine and Applied Arts**

Program Code: 577*/577C

CIP Code: 52.2001

Non-Teaching

General Education Requirements (44 Hours)

- **General Education Requirements**

Fifteen hours of major requirements fulfill General Education requirements:

- **MAT 1020** fulfills Quantitative Literacy.
- **PHY 1103** and **PHY 1104** fulfills Science Inquiry.
- **TEC 2029** (Integrative Learning Experience: Sustainability and Global Resources and the Social Science designation)

Elective courses in the major may fulfill up to an additional three hours of General Education requirements:

- **ECO 2030**, **PLN 2410**, and **TEC 2601** (Liberal Studies Experience)

Major Requirements (91 hours)

18 semester hours must be completed at Appalachian. A laptop computer is required.

A 2.5 cumulative GPA is required for admission into courses from the Intermediate Coursework Sequence.

- Junior Writing in the Discipline (WID) and
- Senior Capstone Experience (CAP) must be met

Foundation Coursework (15 Hours)

Minimum grade of "B" (3.0) in MAT 1020 or higher and "C" (2.0) in all other listed courses is required.

- **MAT 1020 - College Algebra with Applications (4)** (or higher) Note: MAT 1025 does not count for Ge
  Quantitative Literacy.

- **TEC 2029 - Society and Technology (3) [GenEd: SS]**
- **PHY 1103 - General Physics I (4)**
- **PHY 1104 - General Physics II (4)**

Introductory Coursework (12 Hours)

Minimum grade of "C" (2.0) in each course is required

- **TEC 1708 - Construction Methods I (3)** Note: MAT 1020 or higher is required for Building Science majo
- **TEC 1728 - Architectural Graphics and Modeling I (3)** Note: MAT 1020 or higher is required for Buil Science majors
- **TEC 2718 - Building Services (3)** Note: MAT 1020 or higher is required for Building Science majors
- **TEC 2739 - Materials and Structures I (3)** Note: MAT 1020 or higher is required for Building Science m

Intermediate Coursework Sequence (9 Hours)

Admission to Intermediate Coursework Sequence (or permission of the Building Sciences Program Director) required for all courses. Minimum grade of "C" (2.0) in each course is required

- **TEC 3038 – Construction Methods II (3)**
- **TEC 3738 – Materials and Structures II (3)**
- **TEC 3748 – Building Science (3)**

Advanced Coursework (~~35~~ 26 Hours)

Minimum grade of "C" in each course is required

- ~~**TEC 3038 - Construction Methods II (3)**~~
- **TEC 3718 - Construction Estimating (3)**
- **TEC 2719 - Surveying Methods (1)**
- **TEC 3728 - Architectural Design Studio I (3)**
- ~~**TEC 3738 - Materials and Structures II (3)**~~
- **TEC 3739 - Materials and Structures III (3)**
- ~~**TEC 3748 - Building Science (3)**~~
- **TEC 4758 - Planning and Scheduling (3)**
- **TEC 4768 - Construction Administration (3)**
- **TEC 4778 - Integrated Project Design and Delivery (4)**
- ~~**TEC**~~ **BSC 4900 - Internship (3-12) [CAP]** (3 sh required for major)
- ~~**TEC**~~ **BSC 4901 - Internship Portfolio (3) [WID]**

Major Electives (20 Hours)

- **CIS 2050 - Information Technology in the Organization (3)**
- **ECO 2030 - Principles of Microeconomics (3) [GenEd: SS]**
- **FIN 3010 - Survey of Finance (3)**
- **MGT 3010 - Survey of Management (3)**
- **MKT 3050 - Principles of Marketing (3)**
- **PLN 2410 - Town, City and Regional Planning (3) [GenEd: SS]**
- **PLN 3432 - Planning Techniques (4) [WID]**
- **PLN 3730 - Land, Property, and Law (3)**
- **TEC 2601 - Energy Issues and Technology (3)**
- **TEC 3035 - Architectural Field Study (1-3)**
- **TEC 3036 - Construction Management Field Study (1-3)**
- **TEC 3037 - Sustainable Building Systems Field Study (1-3)**
- **TEC 3520 - Instructional Assistance (1)**
- **TEC 3530-3549 - Selected Topics (1-4)**
- **TEC 3604 - Sustainable Transportation (3)**
- **TEC 3605 - Sustainable Resource Management (3)**
- **TEC 3606 - Sustainable Water and Wastewater Technology (3)**
- **TEC 3609 - Introduction to PV Technology (3)**
- **TEC 3610 - Computer Applications for Renewable Energy Systems (3)**
- **TEC 3807 - Construction Safety (2)**
- **TEC 3900 - Internship: Field Experience (3)**
- **TEC 4103 - Leadership in Technical Settings (3)**
- **TEC 4530-4549 - Selected Topics (1-4)**
- **TEC 4618 - Sustainable Building Design and Construction (3)**
- **TEC 4628 - Solar Thermal Energy Technology (3)**
- **TEC 4700 - Bioenergy Technology (3)**
- **TEC 4729 - Healthy Buildings (3)**
-
- **SNH 1010 - Beginning Spanish I (3)**
- **SNH 1020 - Beginning Spanish II (3)**
- or
- **SNH 1030 - Accelerated Beginning Spanish (6)**
-

Interdisciplinary Coursework (9 Hours)

Minimum grade of "C" (2.0) in each course is required

- **COM 2101 - Public Speaking (3)**

- or
- **COM 2105 - Public Speaking in the Disciplines (3)**
-
- **ACC 1050 - Survey of Accounting (3)**
- **LAW 2150 - Legal Environment of Business (3)**

Minor Not Required

Recommended minors are General Business, Community and Regional Planning, or Sustainable Technology

Free Electives (0-3 Hours)

To total a minimum of 120 hours for the degree

Total Required (120 Hours)

Proposed Program of Study 2023-2024

Building Sciences - Sustainable Building Systems Concentration, BS

Return to: **The College of Fine and Applied Arts**

Program Code: 577*/577D

CIP Code: 52.2001

Non-Teaching

General Education Requirements (44 hours)

- **General Education Requirements**

Eighteen (18) hours of major requirements fulfill General Education requirements:

- **MAT 1020** fulfills Quantitative Literacy.
- **PHY 1103** and **PHY 1104** fulfills Science Inquiry.
- **TEC 2029** (Integrative Learning Experience: Sustainability and Global Resources and the Social Science)
- **TEC 2601** (Liberal Studies Experience)

Elective courses in the major may fulfill up to an additional six (6) hours of General Education requirements:

- **PHY 1830** and **PHL 2015** (ILE: Sustainability and Global Resources)
- **ECO 2620** (Liberal Studies Experience)

Major Requirements (~~91~~ 94 Hours)

18 semester hours must be completed at Appalachian. A laptop computer is required).

A 2.5 cumulative GPA is required for admission into courses from the Intermediate Coursework Sequence.

- Junior Writing in the Discipline (WID)
  and
- Senior Capstone Experience (CAP) must be met.

Foundation Coursework (15 Hours)

Minimum grade of "B" (3.0) in MAT 1020 or higher and "C" (2.0) in all other listed courses is required.

- **MAT 1020 - College Algebra with Applications (4)** (or higher) Note: MAT 1025 does not count for Ge
  Qualitative Literacy.
- **TEC 2029 - Society and Technology (3) [GenEd: SS]**
- **PHY 1103 - General Physics I (4)**
- **PHY 1104 - General Physics II (4)**

Introductory Coursework (18 Hours)

Minimum grade of "C" in each course is required

- **TEC 1708 - Construction Methods I (3)** Note: MAT 1020 or higher is required for Building Science majo
- **TEC 1728 - Architectural Graphics and Modeling I (3)** Note: MAT 1020 or higher is required for Buil
  Science majors
- **TEC 2024 - Introduction to Electronics (3)**
- **TEC 2601 - Energy Issues and Technology (3)**
- **TEC 2718 - Building Services (3)** Note: MAT 1020 or higher is required for Building Science majors
- **TEC 2739 - Materials and Structures I (3)** Note: MAT 1020 or higher is required for Building Science m

Intermediate Coursework Sequence (9 Hours)

Admission to Intermediate Coursework Sequence (or permission of the Building Sciences Program Director) required for all courses. Minimum grade of "C" (2.0) in each course is required

- **TEC 3038 – Construction Methods II (3)**
- **TEC 3738 – Materials and Structures II (3)**
- **TEC 3748 – Building Science (3)**

Advanced Coursework (~~41~~ 35 Hours)

Minimum grade of "C" (2.0) in each course is required

- ~~**TEC 3038 - Construction Methods II (3)**~~
- **TEC 3612 - Instrumentation for Renewable Energy Systems (3)**
- **TEC 3718 - Construction Estimating (3)**
- **TEC 2719 - Surveying Methods (1)**
- **TEC 3728 - Architectural Design Studio I (3)**
- ~~**TEC 3738 - Materials and Structures II (3)**~~
- **TEC 3739 - Materials and Structures III (3)**
- ~~**TEC 3748 - Building Science (3)**~~
- **TEC 4618 - Sustainable Building Design and Construction (3)**
- **BSC 3430 – HVAC Systems and Performance (3)**

- **TEC 4729 - Healthy Buildings (3)**
- **TEC 4758 - Planning and Scheduling (3)**
- **TEC 4788 - Integrated Energy and Building Systems (4)**
- ~~**TEC**~~ **BSC 4900 - Internship (3-12) [CAP]** (3 sh required for major)
- ~~**TEC**~~ **BSC 4901 - Internship Portfolio (3) [WID]**

Major Electives (17 Hours)

Minimum grade of "C" (2.0) in each course is required

Choose from the following:

- **ACC 1050 - Survey of Accounting (3)**
- **ECO 2620 - Environmental and Resource Economics (3) [GenEd: SS]**
- **LAW 2150 - Legal Environment of Business (3)**
- **PHL 2015 - Environmental Ethics (3)**
- **PHY 1830 - The Physical Principles of Energy and Sustainability (3)**
- **PHY 3140 - Environmental Physics (3)**
- **TEC 3035 - Architectural Field Study (1-3)**
- **TEC 3036 - Construction Management Field Study (1-3)**
- **TEC 3037 - Sustainable Building Systems Field Study (1-3)**
- **TEC 3520 - Instructional Assistance (1)**
- **TEC 3530-3549 - Selected Topics (1-4)**
- **TEC 3604 - Sustainable Transportation (3)**
- **TEC 3605 - Sustainable Resource Management (3)**
- **TEC 3606 - Sustainable Water and Wastewater Technology (3)**
- **TEC 3609 - Introduction to PV Technology (3)**
- **TEC 3610 - Computer Applications for Renewable Energy Systems (3)**
- **TEC 3807 - Construction Safety (2)**
- **TEC 4103 - Leadership in Technical Settings (3)**
- **TEC 4530-4549 - Selected Topics (1-4)**
- **TEC 4628 - Solar Thermal Energy Technology (3)**
- **TEC 4700 - Bioenergy Technology (3)**
- **TEC 4729 – Healthy Buildings (3)**
- **TEC 4768 - Construction Administration (3)**
- **TEC 3900 - Internship: Field Experience (3)**

Minor Not Required

Recommended minors are General Business, Community and Regional Planning, or Sustainable Technology

Free Electives (0 -~~9~~ 6 Hours)

To total a minimum of 120 hours for the degree

Total Required (120 Hours)

Proposed Certificate Fall 2023
Electric Vehicle Certificate

Certificate Code: UCERT_616A
CIP Code: 15.0507

A certificate in Electric Vehicles requires 18 hours
Minimum 2.5 GPA overall required in EV certificate courses

Required (12 hours)

- **TEC 3604 - Sustainable Transportation (3)**
- **TEC 3610 - Computer Applications for Renewable Energy Systems (3)**
- **TEC 3704 - E-bike (3)**
- **TEC 4613- EV Design (3)**

Electives (6 hours)

- **TEC 3530-3549 - Selected Topics (1-4) (Director approval of a course with vehicle design focus)**
- **TEC 4616 - Solar Vehicle Design (3)**
- **TEC 4633 - Battery based PV (3)**
- **PLN 4240 - Sustainable Transportation Planning (3)**

Advisor Approved Electives (Program Director)

Proposed Program of Study 2023-2024

Sustainable Technology, BS

Return to: **Programs of Study**

Program Code: 571A

CIP Code: 15.0507

Non-Teaching

General Education (44 Hours)

- **General Education Requirements**

Eighteen hours of major requirements fulfill General Education requirements:

- **MAT 1020** or higher fulfills Quantitative Literacy. Minimum grade of "C" (2.0) is required for the major.
- **PHY 1103** and **PHY 1104** fulfills Science Inquiry.
- **TEC 2029** ILE: Sustainability and Global Resources and the Social Sciences
- **TEC 2601** Liberal Studies Experience

Elective courses in the major may fulfill up to an additional nine hours of General Education requirements:

- **ECO 2620**, and **PLN 2410** Liberal Studies Experience
- **IND 1401** Liberal Studies Experience and Fine Arts designation
- **PHY 1830**, **PHL 2015**, and **SD 2400** ILE: Sustainability and Global Resources

Major Requirements (~~93 -~~ 95 Hours)

An overall 2.0 GPA is required in the major. 18 semester hours must be completed at Appalachian.

- Junior Writing in the Discipline (WID)

  and
- Senior Capstone Experience (CAP) must be met

General Education courses also required for the major (12 Hours)

- **MAT 1020 - College Algebra with Applications (4)** (or higher) Note: MAT 1025 will NOT count for Gen Quantitative Literacy. Minimum grade of "C" (2.0) is required for the major.
- **PHY 1103 - General Physics I (4)**
- **PHY 1104 - General Physics II (4)**

Introductory Sustainable Technology & the Built Environment Coursewo (23 Hours)

- **TEC 1708 - Construction Methods I (3)**
- **TEC 1728 - Architectural Graphics and Modeling I (3)**
- **TEC 2024 - Introduction to Electronics (3)**
- **TEC 2029 - Society and Technology (3) [GenEd: SS]**
- **TEC 2601 - Energy Issues and Technology (3)**
- **TEC 2718 - Building Services (3)**
- **TEC 3807 - Construction Safety (2)**
- **TEC 3638 - Foundations of Sustainable Technology (3) [WID]** [WID]

Interdisciplinary Coursework (18 Hours)

Select 6 courses. See the Sustainable Technology Program Director for complete list.

Recommended courses include:

- **BIO 3312 - Environmental Studies (3) [WID]**
- **ECO 2620 - Environmental and Resource Economics (3) [GenEd: SS]**
- **GHY 2812 - Geospatial Technology in a Changing World (3)**
- **GHY 3820 - GIS for the Environmental and Social Sciences (3)**
- **IND 1401 - Product Design (3) [GenEd: FA]**
- **IND 2110 - Introduction to Fabrication (3)**
- **IND 3004 - Welding (3)**
- **MGT 3010 - Survey of Management (3)**
- **PHL 2015 - Environmental Ethics (3)**
- **PHY 1830 - The Physical Principles of Energy and Sustainability (3)**
- **PHY 3140 - Environmental Physics (3)**
- **PLN 2410 - Town, City and Regional Planning (3) [GenEd: SS]**
- **PLN 4240 - Sustainable Transportation Planning (3)**
- **SD 2400 - Principles of Sustainable Development (3)**
- **SD 3100 - Principles of Agroecology (3)**
- **SD 4100 - Agroecology Practices, Systems, and Philosophies (3)**

Technical Specialization (~~40 -~~ 42 Hours)

The following are required courses. (~~15~~ 12 Hours)

- **TEC 3609 - Introduction to PV Technology (3)**

- **TEC 3610 - Computer Applications for Renewable Energy Systems (3)**
- **TEC 4607 - Wind and Hydro Power Technology (3)**
- ~~**TEC 4628 - Solar Thermal Energy Technology (3)**~~
- **TEC 4638 - Contemporary Problems in Sustainable Technology (3) [CAP]** "C" (2.0) minimum required

Select ~~9~~ 10 courses from the following (~~25 - 27~~ 30 Hours)

- **TEC 3520 - Instructional Assistance (1)**
- **TEC 3530-3549 - Selected Topics (1-4)**
- **TEC 3604 - Sustainable Transportation (3)**
- **TEC 3605 - Sustainable Resource Management (3)**
- **TEC 3606 - Sustainable Water and Wastewater Technology (3)**
- **TEC 3612 - Instrumentation for Renewable Energy Systems (3)**
- **TEC 3704 - E-bike Technology (3)**
- **TEC 3748 - Building Science (3)**
- **TEC 4515 - PV Operations and Maintenance (3)**
- **TEC 4520 - PV Business (3)**
- **TEC 4523 - Energy Policy (3)**
- **TEC 4530-4549 - Selected Topics (1-4)**
- **TEC 4613 - EV Design (3)**
- **TEC 4615 - Renewable Energy Project Development (3)**
- **TEC 4616 - Solar Vehicle Design (3)**
- **TEC 4618 - Sustainable Building Design and Construction (3)**
- **TEC 4628 - Solar Thermal Energy Technology (3)**
- **TEC 4633 - Battery-Based PV Systems (3)**
- **TEC 4700 - Bioenergy Technology (3)**
- **TEC 4900 - Internship (3-12) [CAP]**

Minor Not Required

Free Electives (8 ~~- 10~~ Hours)

To total a minimum of 120 hours for the degree.

Total Required (120 Hours)