Bachelor of Science (BS)  
Non-Teaching  577*  
Degree Code  577B  

Building Sciences  
Architectural Technology and Design Concentration  

I. GENERAL EDUCATION  

II. MAJOR REQUIREMENTS  

An overall 2.0 GPA is required in the major. 18 sh must be completed at Appalachian. A minimum grade of “C” is required in all Introductory and Advanced Coursework. Laptop computers are required for students enrolled in Building Sciences Coursework.

Foundation Coursework (15 sh)

*MAT 1025_______(4)  Algebra and Elementary Functions (or higher) (Pre: Pass Math Placement or MAT 0010)
*TEC 2029_______(3)  Society & Technology (Gen Ed theme: LtoG: Sustainability and Global Change)
*PHY 1103_______(4)  General Physics I (Corequisite: MAT 1025 or equivalent) (Gen Ed: Sci. Inq.)
*PHY 1104_______(4)  General Physics II (Prerequisite: PHY 1103 or equivalent) (Gen Ed: Sci. Inq.)

Introductory Coursework (24 sh)

Minimum grade of “C” in each introductory course

** TEC 1728_______ (3)  Architectural Drafting (Pre/Corequisite: TEC 2708)
** TEC 2708_______ (3)  Construction Technology and Building Codes

**Upon completion of TEC 1728 and TEC 2708, students will take the Building Science Competency Exam (A minimum grade of 70 in each part is required before taking TEC 3000 & 4000 level courses)

TEC 2718_______ (3)  Building Mechanical Systems
TEC 2738_______ (3)  Commercial Construction Technology (Pre: MAT 1025. Prerequisites or Corequisites: TEC 2708, TEC 2758)
TEC 2758_______ (3)  Surveying and Foundations (Prerequisite: MAT 1025)
TEC 3039_______ (3)  Materials Science
IND 2201_______ (3)  Design Drawing I
INT 2310_______ (3)  History of Interior Design & Architecture II

Advanced Coursework (35 sh)

INT 3001_______(1)  Interior Design Internship Workshop (Prerequisite: INT 3100 or instructor permission)
INT 4320_______(2)  Professional Practices in Design (Corequisite: INT 4110 or instructor permission)
TEC 3718_______(3)  Construction Estimating (Pre: MAT 1025 or higher, TEC 2708, TEC 2738, Basic knowledge of word processing, internet and spreadsheets)
TEC 3728_______(3)  Residential Architecture (WID) (Prerequisites: TEC 2708, or instructor permission)
TEC 3738_______(3)  Statics and Strength of Structures (Pre: MAT 1025, PHY 1104, TEC 1728, 2708, 2758, 3039)
TEC 4708_______(3)  Building Science (Prerequisite: TEC 2708, MAT 1025 or higher, or instructor permission)
TEC 4728_______(3)  Commercial Building Design (Prerequisite: TEC 3728)
TEC 4738_______(4)  Senior Architectural Design Studio I (Prerequisites: TEC 4708, TEC 4728)
TEC 4748_______(4)  Senior Architectural Design Studio II (Prerequisites: TEC 2738, 3718, 3738, 4738)
TEC 4758_______(3)  Planning and Scheduling (Pre: MAT 1025 or higher, TEC 2708, TEC 2718, TEC 2738, TEC 3718)

OR

TEC 4768_______(3)  Construction Administration (Prerequisites: MAT 1025 or higher, TEC 2708, 2718, TEC 2738, TEC 3718. Prerequisite or Corequisite: TEC 4758 or instructor permission)

TEC 4900_______(6)  Internship (CAP)

Interdisciplinary Courses (14 sh)
COM 2101_______(3)  Public Speaking (“C” minimum)
PLN 2410_______(3)  Town, City and Regional Planning
PLN 3431_______(5)  Planning Techniques
PLN 3730_______(3)  Land Use Regulations

III. MINOR Not Required

IV. FREE ELECTIVES  

2 sh of free electives outside the major discipline are required.  

*Note: MAT 1025, TEC 2029, PHY 1103 and 1104 taken for the major may count toward General Education  

- up to 15