Bachelor of Science	(BS)	**Program of Study for Technology Majors**
Degree Code	577 *	**Building Sciences**
Concentration	577 B	**Architectural Technology & Design**
Non-Teaching		

I. **GENERAL EDUCATION** **44**
(PHY 1103 & 1104 for the major fulfills Science Perspective. MAT 1025 fulfills Quantitative Literacy. TEC 2029 may count toward Gen Ed. if completing a theme).

II. **MAJOR REQUIREMENTS** **88**
(An overall 2.0 GPA is required in the major. 18 semester hours must be completed at Appalachian. Laptop computers are required).

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

Foundation Coursework (15 sh)
MAT 1025 _____ (4) Algebra & Elementary Functions (or higher) (Prerequisite: pass math placement or MAT 0010)
TEC 2029 _____ (3) Society & Technology (Gen Ed: Local to Global Perspective)
PHY 1103 _____ (4) General Physics I (Corequisite: MAT 1025 or equivalent) (Gen Ed: Science Perspective)
PHY 1104 _____ (4) General Physics II (Prerequisite: PHY 1103 or equivalent) (Gen Ed: Science Perspective)

Introductory Coursework (27 sh) Minimum grade of "C" in each course required
TEC 1728 _____ (3) Architectural Graphics & Computer Modeling (Pre/Corequisite: TEC 2708)
TEC 2708 _____ (3) Construction Technology & 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 Advanced Coursework.
TEC 2718 _____ (3) Building Mechanical Systems
TEC 2758 _____ (3) Surveying, Soils and Foundations (Prerequisite: MAT 1025)
TEC 3038 _____ (3) Commercial Construction Technology **(WID)** (Prerequisite: MAT 1025, TEC 2708 and TEC 2758)
TEC 3039 _____ (3) Materials Science (Prerequisites: PHY 1104 and TEC 2708)
INT 1001 _____ (3) Visual Literacy I
INT 1002 _____ (3) Visual Literacy II
INT 2310 _____ (3) History of Interior Design & Architecture II (Prerequisite: completion of Portfolio Review or permission of instructor)

Advanced Coursework (35 sh) Minimum grade of "C" in each course required
INT 3001 _____ (1) Architecture and Design Internship Workshop (Prerequisite: completion of Freshman Portfolio Review or permission of the instructor)
INT 4320 _____ (2) Professional Practices in Design (Corequisite: INT 4110 or permission of the instructor)
TEC 3718 _____ (3) Construction Estimating (Prerequisite: MAT 1025 or higher, TEC 2708, 3038, knowledge of word processing & spreadsheets)
TEC 3728 _____ (3) Residential Architecture (Prerequisites: TEC 1728, 2708 or permission of the instructor)
TEC 3738 _____ (3) Statics & Strength of Structures (Prerequisite: MAT 1025, PHY 1104, TEC 1728, 2708, 2758, 3039)
TEC 3748 _____ (3) Building Science (Prerequisite: TEC 2708, 2718, MAT 1020 or higher, or permission of the instructor)
TEC 4728 _____ (3) Commercial Building Design (Prerequisite: TEC 3728)
TEC 4738 _____ (4) Senior Architectural Design Studio I (Prerequisites: TEC 3748, 4728)
TEC 4748 _____ (4) Senior Architectural Design Studio II (Prerequisites: TEC 3038, 3718, 3738, 4738)
TEC 4758 _____ (3) Planning and Scheduling (Prerequisite: MAT 1025 or higher, TEC 2708, 2718, 3038, 3718)
     OR
TEC 4768 _____ (3) Construction Administration (Prerequisite: MAT 1025 or higher, TEC 2708, 2718, 3038, 3718 Co/Prerequisite TEC 4758)
TEC 4900 _____ (6) Internship **(CAP)**

Major Electives (8 sh from the following)
IND 2012 _____ (3) Product Design
IND 2120 _____ (3) Materials and Processes I
IND 2201 _____ (3) Design Drawing I
INT 2300 _____ (3) History of Interior Design & Architecture I (Prerequisite: completion of Portfolio Review or permission of instructor)
PLN 2410 _____ (3) Town, City and Regional Planning
PLN 3432 _____ (4) Planning Techniques
PLN 3730 _____ (3) Land Use Regulations
TEC 4618 _____ (3) Sustainable Building Design & Construction (Prerequisite: TEC 2718)
___ ___ _____ (3) Other courses in the Dept. of Technology & Environmental Design related to sustainability, planning, business or environmental topics approved by the program coordinator

Major requirements that may count toward Gen Ed:			
MAT 1025	(4)	Quantitative Literacy (fulfills)	
PHY 1103	(4)	Science Perspective	
PHY 1104	(4)	Science Perspective	
TEC 2029	(3)	Local to Global Perspective	
Total Major Hrs:	88		
Gen Ed:	-15		
Net Major Hrs:	73		

Interdisciplinary Course (3 sh)
COM 2101 _____ (3) Public Speaking **("C" minimum required)**

III. **MINOR NOT REQUIRED**

IV. **FREE ELECTIVES (to total 122 sh for this major)** .... **2 - 5**
2 sh of free electives outside the major discipline are required **122**