Bachelor of Science (BS)                      Program of Study
Degree Code  577 *                               Dept. of Sustainable Tech & the Built Env
Concentration  577 B                              Building Sciences
Non-Teaching

I. GENERAL EDUCATION ................................................................. 44
(PHY 1103 & 1104 for the major fulfills Gen Ed: Science Inquiry. MAT 1020 for the major fulfills Quantitative Literacy. TEC 2029 may count in Gen Ed: ILE; IND 2012 and PLN 2410 may count in Gen Ed: LSE).

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) Minimum grade of “C-” in each course required
MAT 1020 _____ (College Algebra with Applications (or higher) (Prerequisite: pass math placement or MAT 0010)
TEC 2029 _____ (Society & Technology (Gen Ed: ILE: Sustainability & Global Resources; Social Sciences Designation)
PHY 1103 _____ (General Physics I (Corequisite: MAT 1020 or MAT 1025 or equivalent) (Gen Ed: Science Inquiry)
PHY 1104 _____ (General Physics II (Prerequisite: PHY 1103 or equivalent) (Gen Ed: Science Inquiry)

Introductory Coursework (27 sh) Minimum grade of “C” in each course required
TEC 1708 _____ (Construction Technology & Building Codes
TEC 1728 _____ (Architectural Graphics & Computer Modeling (Pre/Corequisite: TEC 1708)
TEC 2718 _____ (Building Mechanical Systems
TEC 2758 _____ (Surveying, Soils and Foundations (Prerequisite: MAT 1020)
TEC 3038 _____ (Commercial Construction Technology (Prerequisite: MAT 1020, TEC 1708 and TEC 2758)
TEC 3039 _____ (Materials Science
INT 1001 _____ (Visual Literacy I
INT 1002 _____ (Visual Literacy II (Prerequisite: INT 1001)
INT 2310 _____ (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 _____ (Architecture and Design Internship Workshop (Prerequisite: completion of Freshman Portfolio Review or permission of the instructor)
INT 4320 _____ (Professional Practices in Design (Corequisite: INT 4110 or permission of the instructor)
TEC 3718 _____ (Construction Estimating (Prerequisite: MAT 1020 or higher, TEC 1708, 3038, knowledge of word processing & spreadsheets)
TEC 3728 _____ (Architectural Design Studio I (Prerequisites: TEC 1708, 1728 or permission of the instructor)
TEC 3738 _____ (Statics & Strength of Structures (Prerequisite: MAT 1020, PHY 1104, TEC 1708, 1728, 2758, 3039)
TEC 3748 _____ (Building Science (WID) (Prerequisite: TEC 1708, 2718, MAT 1020 or higher, or permission of the instructor; RC 2001 or its equivalent)
TEC 3758 _____ (Architectural Design Studio II (Prerequisite: TEC 3728)
TEC 4738 _____ (Architectural Design Studio III (Prerequisites: TEC 3748, 3758)
TEC 4748 _____ (Architectural Design Studio IV (Prerequisites: TEC 3038, 3718, 3738, 4738)
TEC 4758 _____ (Planning and Scheduling (Prerequisite: TEC 1020 or higher, TEC 1708, 2718, 3038, 3718)
OR
TEC 4768 _____ (Construction Administration (Prerequisite: MAT 1020 or higher, TEC 1708, 2718, 3038, 3718)
TEC 4900 _____ (Internship (CAP)

Major Electives (11 sh from the following)
IND 2012 _____ (Product Design (Gen Ed: LSE; Fine Art Designation)
IND 2110 _____ (Introduction to Fabrication
IND 2201 _____ (Design Drawing I
INT 2300 _____ (History of Interior Design & Architecture I (Prerequisite: completion of Portfolio Review or permission of instructor)
PLN 2410 _____ (Town, City and Regional Planning (Gen Ed: LSE; Social Science Designation)
PLN 3432 _____ (Planning Techniques
PLN 3730 _____ (Land Use Regulations
TEC 3035 _____ (Architectural Field Study
TEC 3036 _____ (Construction Management Field Study
TEC 3037 _____ (Sustainable Building Systems Field Study
TEC 3520 _____ (Instructional Assistant
TEC 3807 _____ (Construction Safety
TEC 4618 _____ (Sustainable Building Design & Construction (Prerequisite: TEC 1708 and TEC 2718)

Other courses in the Dept. of Sustainable Tech & the Built Environ. related to sustainability, planning, business or environmental topics approved by the program coordinator

Major requirements that may count toward Gen Ed:
MAT 1020 (4) Quantitative Literacy (fulfills)
PHY 1103 (4) Science Perspective
PHY 1104 (4) Science Perspective
TEC 2029 (3) Integrative Learning Exp
IND 2012 (3) Liberal Studies Exp; FA
PLN 2410 (3) Liberal Studies Exp, SS

Total Major Hrs: 88
Gen Ed: 62
Net Major Hrs: 67

III. MINOR NOT REQUIRED – Recommended minor in Community and Regional Planning

IV. FREE ELECTIVES (to total 122 sh for this major) ...................................................... 2 - 11
2 sh of free electives outside the major discipline are required

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