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

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; ECO 2030, PLN 2410 and TEC 2601 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 is required
MAT 1020__ (4) College Algebra with Applications (or higher) (Prerequisite: pass math placement or MAT 0010)
TEC 2029__ (3) Society & Technology (Gen Ed: ILE; Sustainability & Global Resources; Social Sciences Designation)
PHY 1103__ (4) General Physics I (Corequisite: MAT 1020 or MAT 1025 or equivalent) (Gen Ed: Science Inquiry)
PHY 1104__ (4) General Physics II (Prerequisite: PHY 1103 or equivalent) (Gen Ed: Science Inquiry)

Introductory Coursework (18 sh) Minimum grade of “C” in each course is required
TEC 1708__ (3) Construction Technology & Building Codes
TEC 1728__ (3) Architectural Graphics & Computer Modeling (Pre/Corequisite: TEC 1708)
TEC 2718__ (3) Building Mechanical Systems
TEC 2758__ (3) Surveying, Soils and Foundations (Prerequisite: MAT 1020)
TEC 3038__ (3) Commercial Construction Technology (Prerequisite: MAT 1020, TEC 1708, TEC 2758)
TEC 3039__ (3) Materials Science

Advanced Coursework (31 sh) Minimum grade of “C” in each course is required
TEC 3718__ (3) Construction Estimating (Prerequisite: MAT 1020 or higher, TEC 1708, 3038, knowledge of word processing & spreadsheets)
TEC 3728__ (3) Architectural Design Studio I (Prerequisites: TEC 1708, 1728 or permission of the instructor)
TEC 3738__ (3) Statics & Strength of Structures (Prerequisite: MAT 1020, PHY 1103, TEC 1708, 1728, 2758, 3039)
TEC 3748__ (3) Building Science (WID) (Prerequisite: TEC 1708, 2718, MAT 1020 or higher, or permission of the instructor; RC 2001 or its equivalent)
TEC 3807__ (1) Construction Safety
TEC 4103__ (3) Leadership in Technical Settings
TEC 4758__ (3) Planning and Scheduling (Prerequisites: MAT 1020 or higher, TEC 1708, 2718, 3038, 3718)
TEC 4768__ (3) Construction Administration (Prerequisite: MAT 1020 or higher, TEC 1708, 2718, 3038, 3718)
TEC 4778__ (3) Integration of Building Design & Construction Management (Prerequisite: TEC 3718, 3728, 3738, Co/Prereq:TEC 4758)
TEC 4900__ (6) Internship (CAP)

Major Electives (15 sh from the following)
CIS 2050__ (3) Information Technology in the Organization
ECO 2030__ (3) Principles of Microeconomics (Gen Ed: LSE/SS)
FIN 3010__ (3) Survey of Finance PLN
IND 2110__ (3) Introduction to Fabrication
INT 2300__ (3) History of Int. Design & Architecture I
INT 2310__ (3) History of Int. Design & Architecture II
MGT 3010__ (3) Survey of Management
MKT 3050__ (3) Principles of Marketing (Preq: ECO 2030)
PLN 2410__ (3) Town, City & Regional Planning (Gen Ed: LSE/SS)
PLN 3432__ (4) Planning Techniques
PLN 3730__ (3) Land Use Regulations
__ __ __ (3) Other courses in the Dept. of STBE related to sustainability, planning, business, or environ. Topics approved by the program coordinator

Interdisciplinary Course (9 sh)
COM 2101__ (3) Public Speaking (“C” minimum required)
LAW 2150__ (3) Legal Environment of Business
ACC 1050__ (3) Survey of Accounting

III. MINOR NOT REQUIRED – Recommended minors are General Business or Construction Management

IV. FREE ELECTIVES .............................................................................................................. 2 - 8
2 sh of free electives outside the major discipline are required.

Major requirements that may count toward Gen Ed: ECO 2030 (3) Liberal Studies Exp: SS
MAT 1020 (4) Quantitative Literacy
PHY 1103 (4) Science Perspective
PLN 2410 (3) Liberal Studies Exp: SS
TEC 2029 (3) Integrative Learning Experience
TEC 2601 (3) Liberal Studies Exp

Total Major Hrs: 88
Gen Ed: __24__
Net Major Hrs: __64__