Bachelor of Science (BS)  
Degree Code: 577  
Concentration: 577 C  
Non-Teaching  

Program of Study for  
Dept. of Sustainable Tech & the Built Env  
Building Sciences  
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 _____ (3) 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 Co/Prerequisite TEC 4758)  
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 (Pre/req: 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 Community and Regional Planning

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 1104 (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: -14 |