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

I. GENERAL EDUCATION  
(PHY 1103 & 1104 for the major fulfills Gen Ed: Science Inquiry. MAT 1025 for the major fulfills Quantitative Literacy. TEC 2029 may count in Gen Ed: ILE).  

II. MAJOR REQUIREMENTS  
(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 1025 ____ (4) Algebra & Elementary Functions (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 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 1025)  
TEC 3038 ____ (3) Commercial Construction Technology (WID) (Prerequisite: MAT 1025, TEC 1708, TEC 2758; RC 2001 or its equivalent)  
TEC 3039 ____ (3) Materials Science  

Advanced Coursework (31 sh) Minimum grade of “C” in each course is required  
TEC 3718 ____ (3) Construction Estimating (Prerequisite: TEC 1025 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 1025, PHY 1103, TEC 1708, 1728, 2758, 3039)  
TEC 3748 ____ (3) Building Science (Prerequisite: TEC 1708, 2718, MAT 1020 or higher, or permission of the instructor)  
TEC 3807 ____ (1) Construction Safety  
TEC 4103 ____ (3) Leadership in Technical Settings  
TEC 4758 ____ (3) Planning and Scheduling (Prerequisites: TEC 1025 or higher, TEC 1708, 2718, 3038, 3718)  
TEC 4768 ____ (3) Construction Administration (Prerequisite: TEC 1025 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  
FIN 3010 ____ (3) Survey of Finance PLN  
IND 2120 ____ (3) Materials and Processes I  
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  
PLN 3432 ____ (4) Planning Techniques  
PLN 3730 ____ (3) Land Use Regulations  
___ ____ ____ (3) Other courses in the Dept. of Tech. & Envrn. Design related to sustainability, planning, business, or environ. topics approved by the program coordinator  
TEC 2601 ____ (3) Energy Issues & Technology  
TEC 3036 ____ (1-3) Construction Management Field Study  
TEC 3037 ____ (1-3) Sustainable Building Systems Field Study  
TEC 3520 ____ (1-3) Instructional Assistant  
TEC 4608 ____ (3) Photovoltaic System Design & Construction (Pre TEC 3601 or permission of the instructor)  
TEC 4618 ____ (3) Sustainable Bldg. Design & Construction  
SNH 1010 ____ (3) Beginning Spanish I (Recommended)  
SNH 1020 ____ (3) Beginning Spanish II (Recommended)  
SNH 1030 ____ (6) Accelerated Beginning Spanish (Recommended)  

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 sh of free electives outside the major discipline are required.  

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<th>Major requirements that may count toward Gen Ed:</th>
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<tbody>
<tr>
<td>MAT 1025 ____ (4) Quantitative Literacy (fulfills)</td>
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<td>PHY 1103 ____ (4) Science Perspective</td>
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<tr>
<td>PHY 1104 ____ (4) Science Perspective</td>
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<td>TEC 2029 ____ (3) Integrative Learning Experience</td>
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Total Major Hrs: 88  
Gen Ed: 15  
Net Major Hrs: 73