Bachelor of Science (BS)  \hspace{1cm} Program of Study for Technology & Environmental Design Majors
Degree Code \hspace{0.5cm} 577  \hspace{0.5cm} 577  \hspace{0.5cm} 577  \hspace{0.5cm} 577
Concentration \hspace{0.5cm} 577 C  \hspace{0.5cm} Teaching  \hspace{0.5cm} Building Sciences
Non-Teaching \hspace{0.5cm}  \hspace{0.5cm} Construction Management

I. GENERAL EDUCATION  \hspace{2.5cm} 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  \hspace{2.5cm} 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 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 (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; ENG 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: MAT 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: MAT 1025 or higher, TEC 1708, 2718, 3038, 3718)
TEC 4768 _____ (3) Construction Administration (Prerequisite: MAT 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) Foundations of Information Systems
ECO 2030 _____ (3) Principles of Economic
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 envirn. topics approved by the program coordinator

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Note</th>
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<tbody>
<tr>
<td>TEC 2601</td>
<td>Energy Issues &amp; Technology</td>
<td>(Pre: TEC 3601 or permission of the instructor)</td>
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<tr>
<td>TEC 3035</td>
<td>Architectural Field Study</td>
<td>(1-3)</td>
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<tr>
<td>TEC 3036</td>
<td>Construction Management Field Study</td>
<td>(1-3)</td>
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<tr>
<td>TEC 3037</td>
<td>Sustainable Building Systems Field Study</td>
<td>(1-3)</td>
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<tr>
<td>TEC 3520</td>
<td>Instructional Assistant</td>
<td>(1-3)</td>
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<tr>
<td>TEC 4608</td>
<td>Photovoltaic System Design &amp; Construction</td>
<td>(3)</td>
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<tr>
<td>TEC 4618</td>
<td>Sustainable Bldg. Design &amp; Construction</td>
<td>(3)</td>
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<tr>
<td>TEC 4628</td>
<td>Solar Thermal Energy Technology</td>
<td>(3)</td>
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<td>TEC 4711</td>
<td>Comp. Model of Renew. Energy</td>
<td>(3)</td>
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<tr>
<td>SNH 1010</td>
<td>Beginning Spanish I (Recommended)</td>
<td>(Co/Prerequisite)</td>
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<tr>
<td>SNH 1020</td>
<td>Beginning Spanish II (Recommended)</td>
<td>(Co/Prerequisite)</td>
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<tr>
<td>SNH 1030</td>
<td>Accelerated Beginning Spanish (Recommended)</td>
<td>(6)</td>
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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  \hspace{2.5cm} 2 - 5
2 sh of free electives outside the major discipline are required.