

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

Checksheet for Technology Majors  
 Building Sciences  
 Construction Management Concentration

I. GENERAL EDUCATION ..... 44

II. MAJOR REQUIREMENTS ..... 87

An overall 2.0 GPA is required in the major. 18 sh must be completed at Appalachian. A minimum grade of "C-" is required in all Introductory and Advanced Coursework. Laptop computers are required for students enrolled in Building Sciences Coursework.

Foundation Coursework (15 sh)

- \*MAT 1025\_\_\_\_(4) Algebra and Elementary Functions (or higher) (**Prerequisite: Pass math placement or MAT 0010**)
- \*TEC 2029\_\_\_\_(3) Society & Technology (**Gen Ed theme: LtoG: Sustainability and Global Change**)
- \*PHY 1103\_\_\_\_(4) General Physics I (**Corequisite: MAT 1025 or equivalent**) (**Gen Ed: Sci. Inq.**)
- \*PHY 1104\_\_\_\_(4) General Physics II (**Prerequisite: PHY 1103 or equivalent**) (**Gen Ed: Sci. Inq.**)

Introductory Coursework (18 sh)

Minimum grade of "C-" in each introductory course

- \*\*TEC 1728\_\_\_\_(3) Architectural Drafting (**Pre/Corequisite: TEC 2708**)
- \*\*TEC 2708\_\_\_\_(3) Construction Technology and Building Codes
- \*\*Upon completion of TEC 1728 and TEC 2708, students will take the Building Science Competency Exam (A minimum grade of 70 in each part is required before taking TEC 3000 & 4000 level courses)
- TEC 2718\_\_\_\_(3) Building Mechanical Systems
- TEC 2738\_\_\_\_(3) Commercial Construction Technology (**Pre: MAT 1025. Pre/Corequisites: TEC 2708, TEC 2758**)
- TEC 2758\_\_\_\_(3) Surveying and Foundations (**Prerequisite: MAT 1025**)
- TEC 3039\_\_\_\_(3) Materials Science (**Prerequisites: PHY 110 and TEC 2708**)

Advanced Coursework (30 sh)

Minimum grade of "C-" in each advanced course

- TEC 3718\_\_\_\_(3) Construction Estimating (**Prerequisites: MAT 1025 or higher, TEC 2708, 2738, basic knowledge of word processing, internet and spreadsheets**)
- TEC 3728\_\_\_\_(3) Residential Architecture (WID) (**Prerequisites: TEC 1728, TEC 2708, or instructor permission**)
- TEC 3738\_\_\_\_(3) Statics and Strength of Structures (**Prerequisites: MAT 1025, PHY 1104, TEC 1728, TEC 2708, TEC 2758, TEC 3039**)
- TEC 4103\_\_\_\_(3) Leadership in Technical Settings
- TEC 4708\_\_\_\_(3) Building Science (**Prerequisites: TEC 2708, MAT 1025 or higher, or instructor permission**)
- TEC 4728\_\_\_\_(3) Commercial Building Design (**Prerequisite: TEC 3728**)
- TEC 4758\_\_\_\_(3) Planning and Scheduling (**Prerequisites: MAT 1025 or higher, TEC 2708, TEC 2718, TEC 2738, TEC 3718**)
- TEC 4768\_\_\_\_(3) Construction Administration (**Prerequisites: MAT 1025 or higher, TEC 2708, TEC 2718, TEC 2738, TEC 3718. Pre/Corequisite: TEC 4758**)
- TEC 4900\_\_\_\_(6) Internship (CAP)

Major Electives (Choose 15 sh from the following:)

- |                                                                                                             |                                                                  |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| IND 2120____(3) Materials and Processes I                                                                   | INT 2310____(3) History of Interior Design and Architecture II   |
| IND 3120____(3) Materials and Processes II ( <b>Pre: IND 2120, 2901</b> )                                   | CIS 3050____(3) Fundament of Manage Info Systems                 |
| TEC 3601____(3) Intro to Energy Iss & Tec                                                                   | FIN 3010____(3) Survey of Finance                                |
| TEC 3807____(1) Safety                                                                                      | MGT 3010____(3) Survey of Management                             |
| TEC 4608____(3) Photovoltaic System Design & Const ( <b>Pre: TEC 3601 or instructor permission</b> )        | MKT 3050____(3) Principles of Marketing ( <b>Pre: ECO 2030</b> ) |
| TEC 4618____(3) Sustain Build Design &Construct (RECOMMENDED) ( <b>Pre: TEC 2708 or instr. permission</b> ) | PLN 2410____(3) Town, City and Regional Planning                 |
| TEC 4628____(3) Solar Thermal Energy Tec                                                                    | PLN 3431____(5) Planning Techniques                              |
| TEC 4711____(3) Comp. Model of Renew. Energy ( <b>Pre: TEC 3601</b> )                                       | PLN 3730____(3) Land Use Regulations                             |
| IND 2201____(3) Design Drawing I                                                                            | SNH 1010____(3) Beginning Spanish I (RECOMMENDED)                |
| IND 2901____(3) CADD II: Free Modeling ( <b>Pre: IND 1010</b> )                                             | SNH 1020____(3) Beginning Spanish II (RECOMMENDED)               |
| IND 3901____(3) CADD II: Parametric Model ( <b>Pre: IND 1010, 2901</b> )                                    | OR ( <b>Prerequisite: SNH 1010 or instructor permission</b> )    |
|                                                                                                             | SNH 1030____(6) Accelerated Beginning Spanish (RECOMMENDED)      |

Interdisciplinary Course (9 sh)

- COM 2101\_\_\_\_(3) Public Speaking ("C" minimum)
- LAW 2150\_\_\_\_(3) Legal Environment of Business
- ACC 1050\_\_\_\_(3) Survey of Accounting (**Must have successfully completed 24 sh of college credit**)

III. MINOR NOT REQUIRED, But the Minor in Business or Planning is recommended

IV. FREE ELECTIVES ..... 2-6  
*2 sh of free electives outside the major discipline are required.* 137

\*Note: MAT 1025, TEC 2029, PHY 1103, and PHY 1104 taken for the major may count toward General Education. up to 15