

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

**Checksheets for Technology Majors**  
**Building Sciences**  
**Construction Management**

**I. GENERAL EDUCATION ..... 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 ..... 87**  
 (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)**

- 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 1728 \_\_\_\_\_ (3) Architectural Graphics & Computer Modeling (Pre/Corequisite: TEC 2708)
- TEC 2708 \_\_\_\_\_ (3) Construction Technology & 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 Advanced Coursework.**

- TEC 2718 \_\_\_\_\_ (3) Building Mechanical Systems
- TEC 2758 \_\_\_\_\_ (3) Surveying, Soils and Foundations (Prerequisite: MAT 1025)
- TEC 3038 \_\_\_\_\_ (3) Commercial Construction Technology (**WID Pending approval**) (Prerequisite: MAT 1025, TEC 2708, TEC 2758)
- TEC 3039 \_\_\_\_\_ (3) Materials Science (Prerequisites: PHY 1104 and TEC 2708)

**Advanced Coursework (30 sh) Minimum grade of “C” in each course is required**

- TEC 3718 \_\_\_\_\_ (3) Construction Estimating (Prerequisite: MAT 1025 or higher, TEC 2708, 3038, knowledge of word processing & spreadsheets)
- TEC 3728 \_\_\_\_\_ (3) Residential Architecture (Prerequisites: TEC 1728, 2708 or permission of the instructor)
- TEC 3738 \_\_\_\_\_ (3) Statics & Strength of Structures (Prerequisite: MAT 1025, PHY 1104, TEC 1728, 2708, 2758, 3039)
- TEC 4103 \_\_\_\_\_ (3) Leadership in Technical Settings
- TEC 4708 \_\_\_\_\_ (3) Building Science (Prerequisite: TEC 2708, 2718, MAT 1025 or higher, or permission of the instructor)
- TEC 4728 \_\_\_\_\_ (3) Commercial Building Design (Prerequisite: TEC 3728)
- TEC 4758 \_\_\_\_\_ (3) Planning and Scheduling (Prerequisite: MAT 1025 or higher, TEC 2708, 2718, 3038, 3718)
- TEC 4768 \_\_\_\_\_ (3) Construction Administration (Prerequisite: MAT 1025 or higher, TEC 2708, 2718, 3038, 3718 Co/Prerequisite 4758)
- TEC 4900 \_\_\_\_\_ (6) Internship (**CAP**)

**Major Electives (15 sh from the following)**

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| CIS 2050 _____ (3) Foundations of Information Systems  | TEC 3601 _____ (3) Intro to Energy Issues & Technology  |
| ECO 2030 _____ (3) Principles of Economic  | TEC 3807 _____ (1) Safety   |
| FIN 3010 _____ (3) Survey of Finance PLN   | TEC 4608 _____ (3) Photovoltaic System Design & Construction<br>(Pre: TEC 3601 or permission of the instructor) |
| IND 2120 _____ (3) Materials and Processes I   | TEC 4618 _____ (3) Sustainable Bldg. Design & Construction<br>(Preq: TEC 2708, or permission of the instructor) |
| IND 2201 _____ (3) Design Drawing I  | TEC 4628 _____ (3) Solar Thermal Energy Technology  |
| IND 3120 _____ (3) Materials and Processes II (Preq: IND 2120, 2901)   | TEC 4711 _____ (3) Computer Modeling of Renewable Energy<br>(Preq: TEC 3601)                                    |
| INT 2300 _____ (3) History of Int. Design & Architecture I   | SNH 1010 _____ (3) Beginning Spanish I ( <b>Recommended</b> )   |
| INT 2310 _____ (3) History of Int. Design & Architecture II  | SNH 1020 _____ (3) Beginning Spanish II ( <b>Recommended</b> )  |
| MGT 3010 _____ (3) Survey of Management  | Or  |
| MKT 3050 _____ (3) Principles of Marketing (Preq: ECO 2030)  | SNH 1030 _____ (6) Accelerated Beginning Spanish ( <b>Recommended</b> )   |
| 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 Technology & Environmental Design related to sustainability, planning, business, or environmental 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

Major requirements that may count toward Gen. Ed:	
MAT 1025 (3)	Quantitative Literacy (fulfills)
PHY 1103 (4)	Science Perspective
PHY 1104 (4)	Science Perspective
TEC 2029 (3)	Local to Global Perspective
Total Major Hrs:	87
Gen Ed: up to	-15
Net Major Hrs:	72

**III. MIONR NOT REQUIRED – Recommended minors are General Business or Community and Regional Planning**

**IV. FREE ELECTIVES ..... 2 - 6**  
 2 sh of free electives outside the major discipline are required. **122**