**Bachelor of Science** (BS) Program of Study for Technology Majors **Degree Code** 577 \* **Building Sciences** Concentration 577 C **Construction Management Non-Teaching** 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). (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) (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) (4) General Physics II (Prerequisite: PHY 1103 or equivalent) (Gen Ed: Science Perspective) PHY 1104 Introductory Coursework (18 sh) Minimum grade of "C" in each course is required (3) Architectural Graphics & Computer Modeling (Pre/Corequisite: TEC 2708) TEC 1728 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 Surveying, Soils and Foundations (Prerequisite: MAT 1025) (3) TEC 3038 Commercial Construction Technology (WID) (Prerequisite: MAT 1025, TEC 2708, TEC 2758) (3) TEC 3039 (3) Materials Science (Prerequisites: PHY 1104 and TEC 2708) Advanced Coursework (30 sh) Minimum grade of "C" in each course is required Construction Estimating (Prerequisite: MAT 1025 or higher, TEC 2708, 3038, knowledge of word processing & TEC 3718 (3) spreadsheets) TEC 3728 (3) Residential Architecture (Prerequisites: TEC 1728, 2708 or permission of the instructor) Statics & Strength of Structures (Prerequisite: MAT 1025, PHY 1104, TEC 1728, 2708, 2758, 3039) TEC 3738 (3) Building Science (Prerequisite: TEC 2708, 2718, MAT 1020 or higher, or permission of the instructor) TEC 3748 (3) TEC 4103 (3) Leadership in Technical Settings 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) Internship (CAP) TEC 4900 (6) Major Electives (15 sh from the following) 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 Photovoltaic System Design & Construction Materials and Processes I IND 2120 (3) (Pre: TEC 3601 or permission of the instructor) IND 2201 (3) Design Drawing I TEC 4618 Sustainable Bldg. Design & Construction IND 3120 (3) Materials and Processes II (Preq: IND 2120, 2901) (Preq: TEC 2708, or permission of the instructor) INT 2300 (3) History of Int. Design & Architecture I TEC 4628 Solar Thermal Energy Technology History of Int. Design & Architecture II INT 2310 (3) TEC 4711 Computer Modeling of Renewable Energy Survey of Management MGT 3010 (3) (Preg: TEC 3601) MKT 3050 (3) Principles of Marketing (Preq: ECO 2030) SNH 1010 (3) Beginning Spanish I (Recommended) Town, City & Regional Planning 2410 Beginning Spanish II (Recommended) PLN (3) SNH 1020 (3) Planning Techniques 3432 (4) PLN Or Land Use Regulations (3) SNH 1030 (6) Accelerated Beginning Spanish (Recommended) PLN 3730 Other courses in the Dept. of Technology & (3) Major requirements that may count toward Gen. Ed: Environmental Design related to sustainability, planning, business, MAT 1025 Quantitative Literacy (fulfills) (3) or environmental topics approved by the program coordinator PHY 1103 Science Perspective (4) PHY 1104 (4) Science Perspective **Interdisciplinary Course (9 sh)** TEC 2029 (3) Local to Global Perspective COM 2101 (3) Public Speaking ("C" minimum required) Legal Environment of Business LAW 2150 (3) Total Major Hrs: Gen Ed: up to (3) Survey of Accounting ACC 1050 Net Major Hrs: MIONR NOT REQUIRED - Recommended minors are General Business or **Community and Regional Planning** 

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2 sh of free electives outside the major discipline are required.