Program of Study for

Bachelor of Science

(BS)

Technology & Environmental Design Majors **Degree Code** 577 * **Building Sciences** Concentration 577 C **Construction Management Non-Teaching** I. (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) Minimum grade of "C-" in each course is required (4) Algebra & Elementary Functions (or higher) (Prerequisite: pass math placement or MAT 0010) Society & Technology (Gen Ed: Local to Global Perspective) TEC 2029 (3) PHY 1103 (4) General Physics I (Corequisite: MAT 1025 or equivalent) (Gen Ed: Science Perspective) General Physics II (Prerequisite: PHY 1103 or equivalent) (Gen Ed: Science Perspective) PHY 1104 (4) Introductory Coursework (18 sh) Minimum grade of "C" in each course is required TEC 1708 (3) Construction Technology & Building Codes TEC 1728 Architectural Graphics & Computer Modeling (Pre/Corequisite: TEC 1708) (3) **Building Mechanical Systems** TEC 2718 (3) Surveying, Soils and Foundations (Prerequisite: MAT 1025) TEC 2758 (3) TEC 3038 (3) Commercial Construction Technology (WID) (Prerequisite: MAT 1025, TEC 1708, TEC 2758; ENG 2001 or its equivalent) Materials Science TEC 3039 (3) 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 Architectural Design Studio I (Prerequisites: TEC 1708, 1728 or permission of the instructor) (3) TEC 3738 (3) Statics & Strength of Structures (Prerequisite: MAT 1025, PHY 1103, TEC 1708, 1728, 2758, 3039) Building Science (Prerequisite: TEC 1708, 2718, MAT 1020 or higher, or permission of the instructor) TEC 3748 (3) TEC 3807 (1) Construction Safety TEC 4103 Leadership in Technical Settings (3)4758 Planning and Scheduling (Prerequisites: MAT 1025 or higher, TEC 1708, 2718, 3038, 3718) TEC (3)Construction Administration (Prerequisite: MAT 1025 or higher, TEC 1708, 2718, 3038, 3718 Co/Prerequisite TEC 4758) TEC 4768 (3) 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) Foundations of Information Systems CIS 2050 (3) TEC 2601 (3) Energy Issues & Technology ECO 2030 (3) Principles of Economic TEC 3035 (1-3 Architectural Field Study 3010 Survey of Finance PLN TEC (1-3) Construction Management Field Study FIN (3) 3036 (1-3) Sustainable Building Systems Field Study IND 2120 (3) Materials and Processes I TEC 3037 History of Int. Design & Architecture I INT 2300 (3) TEC 3520 (1-3) Instructional Assistant 2310 History of Int. Design & Architecture II Photovoltaic System Design & Construction INT (3) TEC 4608 (3) MGT 3010 (3) Survey of Management (Pre: TEC 3601 or permission of the instructor) MKT 3050 (3) Principles of Marketing (Preq: ECO 2030) TEC 4618 (3) Sustainable Bldg. Design & Construction (Preq: TEC 1708, or permission of the instructor) PLN 2410 (3) Town, City & Regional Planning (3) TEC 4628 Solar Thermal Energy Technology 3432 (4) Planning Techniques TEC 4711 (3) Comp. Model of Renew. Energy (Preq: TEC 3601) PLN Land Use Regulations 1010 Beginning Spanish I (Recommended) PLN 3730 (3) SNH (3) Other courses in the Dept. of Tech. & SNH 1020 (3) Beginning Spanish II (Recommended) (3) Envirn. Design related to sustainability, Or planning, business, or environ, topics SNH 1030 (6) Accelerated Beginning Spanish (Recommended) approved by the program coordinator Major requirements that may count toward Gen Ed: (4) MAT 1025 Ouantitative Literacy (fulfills) Interdisciplinary Course (9 sh) PHY 1103 (4) Science Perspective Public Speaking ("C" minimum required) Science Perspective COM 2101 (3) PHY 1104 TEC 2029 (3) Local to Global Perspective LAW 2150 (3) Legal Environment of Business __(3) Survey of Accounting Total Major Hrs: 88 ACC 1050 Gen Ed: Net Major Hrs: III. MINOR NOT REQUIRED - Recommended minors are General Business or **Community and Regional Planning**