Program of Study for

**Bachelor of Science** 

(BS)

Dept. of Sustainable Tech & the Built Env **Degree Code** 577 \* **Building Sciences** Concentration 577 C **Construction Management Non-Teaching** I. (PHY 1103 & 1104 for the major fulfills Gen Ed: Science Inquiry. MAT 1020 for the major fulfills Quantitative Literacy. TEC 2029 may count in Gen Ed: ILE; ECO 2030, PLN 2410 and TEC 2601 may count in Gen Ed: LSE). (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 1020 (4) College Algebra with Applications (or higher) (Prerequisite: pass math placement or MAT 0010) TEC 2029 (3) Society & Technology (Gen Ed: ILE: Sustainability & Global Resources; Social Sciences Designation ) PHY 1103 General Physics I (Corequisite: MAT 1020 or MAT 1025 or equivalent) (Gen Ed: Science Inquiry) (4) PHY 1104 (4) General Physics II (Prerequisite: PHY 1103 or equivalent) (Gen Ed: Science Inquiry) Introductory Coursework (18 sh) Minimum grade of "C" in each course is required Construction Technology & Building Codes TEC 1708 (3) TEC 1728 Architectural Graphics & Computer Modeling (Pre/Corequisite: TEC 1708) (3) \_\_(3) **Building Mechanical Systems** TEC 2718 TEC 2758 (3) Surveying, Soils and Foundations (Prerequisite: MAT 1020) TEC 3038 (3) Commercial Construction Technology (Prerequisite: MAT 1020, TEC 1708, TEC 2758;) TEC 3039 (3) Materials Science Advanced Coursework (31 sh) Minimum grade of "C" in each course is required Construction Estimating (Prerequisite: MAT 1020 or higher, TEC 1708, 3038, knowledge of word processing & spreadsheets) TEC 3718 (3) TEC 3728 (3)Architectural Design Studio I (Prerequisites: TEC 1708, 1728 or permission of the instructor) TEC 3738 Statics & Strength of Structures (Prerequisite: MAT 1020, PHY 1103, TEC 1708, 1728, 2758, 3039) (3) **TEC 3748** Building Science (WID) (Prerequisite: TEC 1708, 2718, MAT 1020 or higher, or permission of the instructor; RC 2001 or its equivalent) (3) 3807 Construction Safety TEC (1) TEC 4103 (3) Leadership in Technical Settings TEC 4758 Planning and Scheduling (Prerequisites: MAT 1020 or higher, TEC 1708, 2718, 3038, 3718) (3) TEC 4768 (3) Construction Administration (Prerequisite: MAT 1020 or higher, TEC 1708, 2718, 3038, 3718) Integration of Building Design & Construction Management (Prerequisite: TEC 3718, 3728, 3738, Co/Prereq:TEC 4758) TEC 4778 (3) TEC 4900 (6) Internship (CAP) Major Electives (15 sh from the following) \_\_\_ (3) Energy Issues & Technology (Gen Ed: LSE) CIS 2050 (3) Information Technology in the Organization TEC 2601 3035 \_\_\_\_\_ (1-3 Architectural Field Study ECO 2030 (3) Principles of Microeconomics (Gen Ed: LSE;SS) TEC 3036 \_\_\_\_\_ (1-3) Construction Management Field Study FIN 3010 (3) Survey of Finance PLN TEC 3037 \_\_\_\_\_ (1-3) Sustainable Building Systems Field Study Introduction to Fabrication IND 2110 (3) TEC \_\_\_\_(1-3) Instructional Assistant INT 2300 History of Int. Design & Architecture I TEC (3)3520 (3) Photovoltaic System Design & Construction INT 2310 (3) History of Int. Design & Architecture II TEC 4608 (3) Survey of Management (Prerequisites: TEC 1708, TEC 1728, TEC 2029, TEC 2601, TEC MGT 3010 2718, and TEC 3638 or permission of the instructor.) MKT 3050 (3) Principles of Marketing (Preq: ECO 2030) TEC 4618 Sustainable Bldg. Design & Construction (3) (Preq: TEC 1708, or permission of the instructor) Solar Thermal Energy Technology 2410 (3) Town, City & Regional Planning(Gen Ed: LSE;SS) TEC \_\_(3) PLN 4628 Prerequisites: TEC 1708, TEC 1728, TEC 2029, TEC 2601, TEC 2718, and TEC 3638 or permission of the instructor.) PLN 3432 (4) Planning Techniques TEC 4711 Comp. Model of Renew. Energy Prerequisite: TEC 3638 or permission of the instructor Land Use Regulations SNH 1010 (3) Beginning Spanish I (Recommended) (3) \_(3) Beginning Spanish II (Recommended) Other courses in the Dept. of STBE SNH 1020 related to sustainability, planning, Or business, or environ. Topics approved SNH 1030 Accelerated Beginning Spanish (Recommended) by the program coordinator Major requirements that may count toward Gen Ed: ECO 2030 Liberal Studies Exp; SS MAT 1020 (4) Quantitative Literacy PHY 1103 (4) Science Perspective Science Perspective **Interdisciplinary Course (9 sh)** PHY 1104 PLN 2410 (3) Liberal Studies Exp: SS Public Speaking ("C" minimum required) COM 2101 (3) Integrative Learning Experience LAW 2150 (3) Legal Environment of Business TEC 2601 Liberal Studies Exp (3) Survey of Accounting ACC 1050 Total Major Hrs: 88 Gen Ed: Net Major Hrs: III. MINOR NOT REQUIRED - Recommended minors are General Business or

**Community and Regional Planning**