

I. GENERAL EDUCATION ..... 44

II. MAJOR REQUIREMENTS ..... 74-78

*An overall 2.0 GPA is required in the major. 18 sh must be completed at Appalachian.*

\* MAT 1025\_\_\_\_(4) Algebra and Elementary Functions (or higher) **(Prerequisite: pass math placement or MAT 0010)**  
Introductory Technology Coursework (27 sh)

\* TEC 2029\_\_\_\_(3) Society & Technology **(Gen Ed theme: LtoG: Sustainability and Global Change)**

\* TEC 3601\_\_\_\_(3) Energy Issues and Technology **(Gen Ed theme: LtoG: Global Resources)**

And select 7 courses from the following:

GRA 2102\_\_\_\_(3) Electronic Prepress **(Prerequisite: GRA 1012)**

IND 2012\_\_\_\_(3) Product Design

IND 2120\_\_\_\_(3) Materials and Processes I

IND 2201\_\_\_\_(3) Design Drawing I

IND 3120\_\_\_\_(3) Materials and Processes II **(Prerequisites: IND 2120, IND 2901)**

TEC 1023\_\_\_\_(3) Introduction to Electronics **(Prerequisite: MAT 0010 or placement test)**

TEC 1728\_\_\_\_(3) Architectural Drafting **(Prerequisite or Corequisite: TEC 2708)**

TEC 2708\_\_\_\_(3) Construction Technology & Building Codes

TEC 2718\_\_\_\_(3) Building Mechanical Systems

TEC 3039\_\_\_\_(3) Materials Science

TEC 3728\_\_\_\_(3) Residential Architecture **(Prerequisites: TEC 1728, TEC 2708 or instructor permission)**

Interdisciplinary Coursework (select any 3 courses: 9-11 sh)

ANT/SD 4570\_\_\_\_(3) Sustainable Development in the Modern World System

BIO 3312\_\_\_\_(3) Environmental Studies

\* ECO 3620\_\_\_\_(3) Environmental and Resource Economics **(Gen Ed theme: LtoG: Global Resources)**

\* S D 2400\_\_\_\_(3) Principles of Sustainable Development **(Gen Ed theme: LtoG: Sustainability and Global Change)**

S D 3100\_\_\_\_(4) Principles of Agroecology

S D 4100\_\_\_\_(4) Agroecology Practices, Systems & Philosophies **(Prerequisite: S D 3100 or instructor permission)**

MGT 3010\_\_\_\_(3) Survey of Management

\* PHL 2015\_\_\_\_(3) Environmental Ethics **(Gen Ed theme: LtoG: Sustainability and Global Change)**

PHY 3140\_\_\_\_(3) Environmental Physics **(Prerequisite: PHY 1104 or PHY 1151)**

PLN 2410\_\_\_\_(3) Town, City and Regional Planning

\_\_\_\_\_ Other courses in sustainability, geography and planning, business, or environmental topics approved by the advisor; memo must be sent to Dean's Office.

Technical Specialization (select any 7 courses: 19-21 sh)

TEC 3520\_\_\_\_(1) Instructional Assistance **(Prerequisite: Jr or Sr Standing, Approved Contract Required)**

TEC 4604\_\_\_\_(3) Sustainable Transportation

TEC 4605\_\_\_\_(3) Sustainable Resource Management

TEC 4606\_\_\_\_(3) Sustainable Water and Wastewater Technology

TEC 4607\_\_\_\_(3) Wind and Hydro Power Technology **(Prerequisite: TEC 3601 or instructor permission)**

TEC 4608\_\_\_\_(3) Photovoltaic System Design and Construction **(Prerequisite: TEC 3601 or instructor permission)**

TEC 4618\_\_\_\_(3) Sustainable Bldg Design & Construction **(Prerequisite: TEC 2708 or instructor permission)**

TEC 4628\_\_\_\_(3) Solar Thermal Energy Technology

TEC 4700\_\_\_\_(3) Biofuels Technology

TEC 4708\_\_\_\_(3) Building Science **(Prerequisites: TEC 2708, MAT 1020 or higher, or instructor permission)**

TEC 4711\_\_\_\_(3) Computer Modeling of Renewable Energy Systems **(Prerequisite: TEC 3601)**

Senior Project/Thesis (3 sh)

TEC 4638\_\_\_\_(3) Contemporary Problems in Appropriate Technology (CAP) (a minimum grade of "C" is required) **(Prerequisite: TEC 4608 or instructor permission)**

Electives/Internship (12 sh)

TEC 4900\_\_\_\_(3-6) Internship

AND/ OR

TEC Electives or courses from interdisciplinary courses above not already used in the major

III. MINOR NOT REQUIRED

IV. FREE ELECTIVES (to total a minimum of 122 sh) ..... 2-11

2 sh of free electives outside the major discipline are required. 124-129

\*Note: MAT 1025 and TEC 2029 or TEC 3601 taken for the major may count toward General Education. -up to 7  
122-124