Bachelor of Science (BS) 2010 - 2011
Checksheet for Technology Majors
Appropriate Technology

I. GENERAL EDUCATION

II. MAJOR REQUIREMENTS

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 1012____(3) Graphic Communications I
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 (Prerequisites: PHY 1104 and TEC 2708)
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 2620____(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