**Bachelor of Science** (BS) Degree Code 571A Non-Teaching

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

Program of Study for Dept. of Sustainable Tech & The Built Env. Sustainable Technology

2-16

	jor count in Gen Ed :	ajor fulfills Quantitative Literacy. Science sequence required for major fulfills as noted on this POS.)	
	IOR REQUIREMENTS		
		uired in the major. 18 semester hours must be completed at Appalachian ipline (WID) & Senior Capstone Experience (CAP) must l	
		ses also "required" for the major	
	1020 (4) 201 , BIO 1202	College Algebra with Applications (or higher) (Prerequisite: must pass 2 & BIO 1203 or CHE 1101 / 1110 & CHE 1102 / 1	s the math placement or MAT 0010) 120 or PHY 1103 & PHY 1104 (8)
Intuad	luotomy Toob volom	y & Environmental Design Coursework (28 ch)	
IND	2110 (3)	y & Environmental Design Coursework (28 sh) Introduction to Fabrication	
	1708(3)	Construction Technology & Building Codes	
TEC	1728(3)	Architectural Graphics & Computer Modeling (Pre/Coreq. TEC 1708)	
TEC	2029(3)	Society & Technology (Gen Ed: ILE: Sustainability and Global Resources and Society	al Science designation)
TEC	2601(3)	Energy Issues & Technology (Gen Ed: Liberal Studies Experience)	
TEC	2718(3)	Building Mechanical Systems	
TEC	3807(1)	Construction Safety	
TEC		Foundations of Sustainable Technology (WID) (Prerequisites: RC 2001 or its or rom the following:	equivalent; TEC 2029 and TEC 2601 or permission of the instructor)
GRA		Electronic Document Design I	
IND	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Product Design (Gen Ed: Liberal Studies Experience and Fine Arts designation)	
IND	3004(3)	Welding (Prerequisite: IND 2110 OR IND 2120)	
TEC	$\frac{1023}{1023}$ (3)	Introduction to Electronics (Prerequisite: passing the math placement test or complete	tion of MAT 0010)
РНО	1022(3)	Photographic Imaging I ((Prerequisite: passing the math placement test or completion of MAT 0010)	
Interd	isciplinary Course	ework (12 - 14sh from any 4 courses. See the Sustainable Technology	Program Coordinator for complete list)
	mended courses in		. ,
BIO	3312(3)	Environmental Studies	
ECO	2620(3)	Environmental & Resource Economics (Gen Ed: LSE; Social Science Designation	on)
GHY	2812(3)	Geospatial Data & Technology	M: : : : : : : C FI
	3820(3)	GIS for Environmental & Social Sciences	Major requirements that may count in Gen Ed: MAT 1020 (4) Quantitative Literacy
		Survey of Management	SCIENCE (8) Science Inquiry
PHL	2015(3)	Environmental Ethics	Up to 15 hours of ILE and LSE courses chosen from:
PHY	1830(3)	(Gen Ed: ILE: Sustainability and Global Resources) The Physical Principles of Energy & Sustainability	ECO 2620 (3) LSE
1111	1030(3)	(Gen Ed: ILE: Sustainability & Global Resources)	IND 2012 (3) LSE; Fine Arts Designation
PHY	3140(3)	Environmental Physics (Prerequisite: PHY 1104 or PHY 1151)	PLN 2410 (3) LSE; SSD TEC 2601 (3) LSE
PLN	2410(3)	Town, City and Regional Planning (Liberal Studies Experience and Social	PHL 2015 (3) ILE: Sustainability
a B		Science Designation)	S D 2400 (3) ILE: Sustainability
S D	2400(3)	Principles of Sustainable Development (ILE: Sustainability and Global Resources)	TEC 2029 (3) ILE: Sustainability; Social Science Designa
SD	3100(3)	Principles of Agroecology	PHY 1830 (3) ILE: Sustainability
SD	4100(4)	Agroecology Practices, Systems & Philosophies	Total Major Hrs: 89 - 93
		(Prerequisite: S D 3100 or permission of the instructor)	Gen Ed – up to:
	ical Specialization		Net Major Hrs: 62 - 66
	llowing are requir		
TEC	$\frac{4607}{4608}$ (3)	Wind and Hydro Power Technology (Prerequisite: TEC 1708, 1728, 2029, 2601,	
TEC	4608(3)	Photovoltaic System Design & Construction (Prerequisite: TEC 1708, 1728, 20	
TEC TEC	$\frac{4628}{4711}$ (3)	Solar Thermal Energy Technology (Prerequisite: TEC 1708, 1728, 2029, 2601, 27 Computer Modeling of Renewable Energy Systems (Prerequisite: TEC 2601	
	4711 (3) elect 15 sh from th		and the 5050 of permission of the instructor)
TEC	3604 (3)	Sustainable Transportation (Prerequisites: TEC 2601 & TEC 3638, or permission of	the instructor)
TEC	3605 (3)	Sustainable Resource Management (Prerequisites: TEC 2029, or permission of the	
TEC	3606(3)	Sustainable Water and Wastewater Technology (Prerequisites: TEC 2029, or	
TEC	3748 (3)	Building Science (Prerequisites: TEC 1708 and 2718 & MAT 1020 or higher, or permis	,
TEC	4618 (3)	Sustainable Building Design & Construction (Prerequisite: TEC 1708 or permits	
TEC	4700(3)	Biofuels Technology (Prerequisite: TEC 2601 and TEC 3638 or permission of the instru	
	one ( 3 sh)		
	<b>4638</b> (3)	Contemporary Problems in Sustainable Technology (CAP) ("C" minim	um required) (Prerequisite: TEC 4608 or permission of instructor)
	OR 4000 (2)	Internation (CAD)	
1 EC	4900(3)	Internship (CAP)	
Techni		<u>sh)</u> abroad experience, Instructional Assistantships (TEC 3520) or Inter See the Sustainable Technology Program Coordinator for complete li	
Any T	ere in the major. S	oce one pastamable recombingy ringram confunition for complete in	se or approved electives)
Any T	·		(2)
Any T	(3)		
Any T	·		