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

	1020 taken for the n	ON		
MAJO An ove	OR REQUIREME erall 2.0 GPA is re-	required in the major. 18 semester hours must be completed at Appalachian. iscipline (WID) & Senior Capstone Experience (CAP) must be met.		
Gener	al Education cou	rses also "required" for the major		
MAT	1020 (4)		ss the math placement or MAT 0010) 1120 or PHY 1103 & PHY 1104 (8)	
		y & Environmental Design Coursework (28 sh)		
IND TEC	$\frac{2110}{1708}$ $\frac{(3)}{(3)}$	Introduction to Fabrication		
TEC	$\frac{1708}{1728}$ (3)	Construction Technology & Building Codes Architectural Graphics & Computer Modeling (Pre/Coreq. TEC 1708)		
TEC	2029 (3)	Society & Technology (Gen Ed: ILE: Sustainability and Global Resources and Society	ial 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	3638(3)	Foundations of Sustainable Technology (WID) (Prerequisites: RC 2001 or its	equivalent; TEC 2029 and TEC 2601 or permission of the instructor)	
	1022 (3)	From the following: Electronic Document Design I		
IND	2012(3)	Product Design (Gen Ed: Liberal Studies Experience and Fine Arts designation)		
IND	3004(3)	Welding (Prerequisite: IND 2004)		
TEC	1023(3)	Introduction to Electronics (Prerequisite: passing the math placement test or comple	etion of MAT 0010)	
PHO	1022(3)	Photographic Imaging I ((Prerequisite: passing the math placement test or completion	on of MAT 0010)	
		ework (12 - 14sh from any 4 courses. See the Sustainable Technology	y Program Coordinator for complete list)	
BIO	mended courses in 3312(3)	Environmental Studies		
ECO	2620 (3)	Environmental & Resource Economics (Gen Ed: LSE; Social Science Designation	ion)	
	2812(3)	Geospatial Data & Technology		
	3820 (3)	GIS for Environmental & Social Sciences	Major requirements that may count in Gen Ed:	
	3010(3)	Survey of Management	MAT 1020 (4) Quantitative Literacy 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 (Gen Ed: ILE: Sustainability & Global Resources)	ECO 2620 (3) LSE 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	
S D	2400(3)	Science Designation) Principles of Sustainable Development (ILE: Sustainability and Global Resources)	S D 2400 (3) ILE: Sustainability TEC 2029 (3) ILE: Sustainability; Social Science Designation	
SD	3100(3)	Principles of Agroecology	PHY 1830 (3) ILE: Sustainability	
S D	4100(4)	Agroecology Practices, Systems & Philosophies	Total Major Hrs: 89 - 93	
	. 16	(Prerequisite: S D 3100)	Gen Ed – up to:	
	ical Specialization	= \ _ /	Net Major Hrs: 62 - 66	
TEC	ollowing are requi 4607 (3)	Wind and Hydro Power Technology (Prerequisite: TEC 1708, 1728, 2029, 2601,	2718 & TEC 3638 or permission of the instructor)	
TEC	4608(3)	Photovoltaic System Design & Construction (Prerequisite: TEC 1708, 1728, 2027, 2007, 2007)		
TEC	4628 (3)	Solar Thermal Energy Technology (Prerequisite: TEC 1708, 1728, 2029, 2601, 2		
TEC	4711(3)	Computer Modeling of Renewable Energy Systems (Prerequisite: TEC 363	8 or permission of the instructor)	
	elect 15 sh from th			
TEC	$\frac{3604}{2605}$ (3)	Sustainable Transportation (Prerequisites: TEC 2601 & TEC 3638, or permission of		
TEC TEC	$\frac{3605}{3606}$ (3)	Sustainable Resource Management (Prerequisites: TEC 2029, or permission of th Sustainable Water and Wastewater Technology (Prerequisites: TEC 2029, or		
TEC	3748(3)	Building Science (Prerequisites: TEC 1708 and 2718 & MAT 1020 or higher, or permi		
TEC	4618 (3)	Sustainable Building Design & Construction (Prerequisite: TEC 1708 or perm		
TEC	4700(3)	Biofuels Technology (Prerequisite: TEC 3638 or permission of the instructor)		
	one (3 sh)			
	4638 (3)	Contemporary Problems in Sustainable Technology (CAP) ("C" minim	num required) (Prerequisite: TEC 4608 or permission of instructor)	
	OR	The state of the s		
TEC	4900(3)	Internship (CAP)		
Techni Any T		abroad experience, Instructional Assistantships (TEC 3520) or Inte		
Techni Any T	EC courses, study ere in the major.	vabroad experience, Instructional Assistantships (TEC 3520) or Inte See the Sustainable Technology Program Coordinator for complete I	list of approved electives)	
Techni Any T	EC courses, study ere in the major.	vabroad experience, Instructional Assistantships (TEC 3520) or Inte See the Sustainable Technology Program Coordinator for complete I	list of approved electives)	
Techni Any T elsewh	EC courses, study ere in the major.	vabroad experience, Instructional Assistantships (TEC 3520) or Inte See the Sustainable Technology Program Coordinator for complete I	list of approved electives)	