Bachelor of Science (BS) **Degree Code** 578 A Non-Teaching

Program of Study for Technology & Environmental Design Majors Appropriate Technology

		8		31		
I.	(MAT	1025 taken for the ma	ION	Local to Global: Susta	ainability & Global Change for a 9	
II.	MAJO An ov	OR REQUIREM	ENTSquired in the major. 18 semester hours must be completed at Appalachian.		90 - 92	
	Junio	r Writing in the	Discipline (WID) & Senior Capstone Experience (CAP)	must be met.		
	MAT	1025(4)	Algebra and Elementary Functions (or higher) (Prerequisite: must pass the	math placement or		
*	BIO 1	201, BIO 1202	& BIO 1203 or CHE 1101/ 1110 & CHE 1102/ 1120	or PHY 1103 &	& PHY 1104 (8)	
	Intro	ductory Technolo	ogy & Environmental Design Coursework (21 sh)			
			Construction Technology & Building Codes			
	TEC	1728(3)	Architectural Graphics & Computer Modeling (Pre/Coreq. TEC 1708)			
*	TEC	TEC 2029 (3) Society & Technology (Gen Ed: Local to Global Perspective; Sustainability & Global Change)				
*			Energy Issues & Technology (Gen Ed: Local to Global Perspective)			
		2718(3)		Major requirements	that may count in Gen Ed:	
	IND		Materials and Processes I	MAT 1025 (4)	Quantitative Literacy	
	GRA	1022(3)		SCIENCE (8)	Science Requirement	
	Intore	disainlinary Cau	instructor) rsework (12 - 14sh from any 4 courses)	TEC 2029 (3) S D 2400 (3)	L to G Perspective: Sustainability L to G Perspective: Sustainability	
		D 4570 (3)	Sustainable Development in the Modern World System	PHL 2015 (3)	L to G Perspective: Sustainability	
		3312 (3)	Environmental Studies	TEC 2601 (3)	L to G Perspective: Global Resource	
*		2620 (3)	Environmental & Resource Economics (Gen Ed: Local to Global	ECO 2620 (3)	L to G Perspective: Global Resource	
	200	(3)	Perspective: Global Resources)	Total Major Hrs:	90 - 92	
	GHY	2812 (3)	Geospatial Data & Technology	Gen Ed – up to:	- 21	
	GHY	3820 (3)		Net Major Hrs:	69 - 71	
	MGT	3010(3)				
*	PHL	2015(3)	Environmental Ethics (Gen Ed: Local to Global Perspective; Sustainability &			
		1830(3)	The Physical Principles of Energy & Sustainability (Gen Ed: Local to Glo	obal; Sustainability &	& Global Change)	
		3140(3)				
	PLN	2410(3)				
*	SD	2400 (3)	* ` `	ve; Sustainability &	Global Change)	
	SD	$\frac{3100}{4100}$ (3)				
	S D	4100(4)	Agroecology Practices, Systems & Philosophies (Prerequisite: S D 3100 or permission of the instructor) Other courses in Sustainability, geography & planning, business or environmental topics approved by an advisor			
	Technical Specialization (30 sh) The following are required courses: TEC 3638 (3) Foundations of Appropriate Technology (WID) (Prerequisites: ENG 2001 or its equivalent; TEC 2029 and TEC 2601 or permission of the instructor) TEC 4607 (3) Wind and Hydro Power Technology (Prerequisite: TEC 1708, TEC 1728, TEC 2029, TEC 2601, TEC 2718, & TEC 3638 or permission of the instructor)					
	TEC		Photovoltaic System Design & Construction (Prerequisite: TEC 1708, TEC 1728, TEC 2029, TEC 2601, TEC 2718, & TEC 3638 or permission of the instructor)			
	TEC	4628(3)	Solar Thermal Energy Technology (Prerequisite: TEC 1708, TEC 1728, TEC 2029, TEC 2601, TEC 2718, & TEC 3638 or permission of the instructor)			
	And s	select 18 sh from	1			
	TEC	EC 3604 (3) Sustainable Transportation (Prerequisites: TEC 2601 & TEC 3638, or permission of the instructor)				
	TEC	3605(3)				
	TEC		O6(3) Sustainable Water and Wastewater Technology (Prerequisites: TEC 2029, or permission of the instructor)			
	TEC	3748(3)	Building Science (Prerequisites: TEC 1708 and 2718 & MAT 1020 or higher			
	TEC		Sustainable Building Design & Construction (Prerequisite: TEC 1708 or p		ructor)	
	TEC		Biofuels Technology (Prerequisite: TEC 2601 and TEC 3638 or permission of			
	TEC	4711(3)	Computer Modeling of Renewable Energy Systems (Prerequisite: TEC 2	601 and TEC 3638 of	r permission of the instructor)	
	Capst	tone (3 sh)				
	TEC	4638(3)	Contemporary Problems in Appropriate Technology (CAP) ("C" minimum required) (Prerequisite: TEC 4608 or permission of the instructor)			
		OR 4900 (3)	Internship (CAP)			
	Electi	Electives (12 sh)				
			dy abroad experience, or Interdisciplinary courses listed above not a	lready used elsew	here in the major	
	-	(3)	(3)		· 	
		(3)	(3)			
III.	MINO	OR NOT REQUI	RED			
IV.			to total a minimum of 122 sh for this major)	• • • • • • • • • • • • • • • • • • • •	$\cdots \qquad \frac{7-9}{122}$	