GEOENVIRONMENTAL STUDIES PROGRAM – B.S.

All courses are three credits unless noted in parentheses

A 200-400 course listed to the left, not previously taken, may be used in this category			
FEE 212 Historical Conference			
Required Geoenvironmental Studies Core (13 cr.) When? Grade ESS 214 Geology of National Parks Fluency in Writing (3 credits) ENG 101, ENG 106 or ENG 110	Fluency in Writing (3 credits) ENG 101, ENG 106 or ENG 110		
ESS 355 Meteoroloay (If ESS111, sub a course t) ESS 220 Oceanography			
ESS 210 Physical Geology (If ESS110, sub a course) GEO 203 Climatology Fluency in Speaking (3 credits) HCS 100			
GEO 224 Soils GEO 306 Geomorphology			
GEO 226 Hydrology GEO 397 Introduction to Research Mathematical Competency (3 credita)			
GEO 391 Geography Seminar (1)			
Geography Electives (6 cr.)			
GEO 230 Economic Geography Marine Science Consortium Course			
GEO 244 Land Use			
GEO 305 Geography of Europe			
GEO 308 Geography of Latin America	Category A: (1 Course)		
GEO 310 Transportation Geography Logic and Numbers for Rational Thinking			
GEO 313 Geography of S. and SE Asia			
GEO 314 Industrial Geography Category B: (3 Courses)	Category B: (3 Courses)		
GEO 317 Geography of East Asia	Linguistic Literory Artistic and Cultural Inaditions		
GEO 320 Historical Geography BIO 210 Field Zoology (Prereg: BIO 115)			
GEO 322 Urban Geography			
GEO 415 Regional Geographic Studies			
GEO 450 Geography-Geology Field Study*			
Geoenvironmental Complex Systems (9cr)			
ESS 404 Applied Meteorology and Climatology Chemistry (Chemistry Chemistry) Biological and Physical Sciences			
ESS 413 Mineral and Rock Resources			
ES5 442 Environmental Geology CHINE2CONTINUE CONTINUE CON			
ESS 490 Selected lopics			
GEO 301 Intro to Diogeography Geo 30			
GE0 306 Geomorphology Category D: (2 Courses)			
GE0 402 Environmental realth Political, Economic, and Geographic Sciences			
GEO 444 Environmental Lage Planning MAT 140 Finite Math			
GEO 446 Water Resources Management MAT 165 Prob With Statistical Reasoning (prerea)			
Diversity Geography-Geology Field Study* MAT 175 Pre-Calculus Category E: (2 Courses)	sity		
GEO 490 Selected Topics Social and Behavioral Sciences	ą.		
Geoenvironmental Field Experience (3+ Cr) MAT 211 Calculus I (4)	'N		
GE0 360 Internații (-2.0 overall & maior. Jr. atatua) MAT 212 Calculua II (4)			
Technique Course Electives (6+ Cr)			
GEO 202 GIS I: Introduction to GIS CSC 103 Overview of Computer Science			
GEO 339 Remote Sensing CSC 180 Microcomputer Basic			
GEO 352 Cartography CSC 110 Computer Science I (4)			
GEO 363 GIS II: Intermediate GIS CSC 111 Computer Science II (4)			
GEO 420 GIS III: Advanced GIS ISM 142 Intro to Business Computer Systems GPA 1st Semester 2nd Semester Cu	71		
GEO 425 Image Processing			
GEO 440 Field Techniques Geographic Information Systems (GIS) Certificate (12cr)			
GEO 441 Quantitative Methods GPA 3 rd Semester 4 th Semester Cl	m		
GEO 450 Geography-Geology Field Study* Required:			
◆If Intro to Geology has been taken, substitute: GEO 202 GIS I: Introduction to GIS GEO 363 GIS II: Intermediate GIS			
Historical Geology, Geomorphology, or Geology of National Parks <u>Select Two of the Following Courses:</u> GPA 5 th Semester 6 th Semester Cl	IM		
‡ If ESS111 has been taken, substitute GEO 203 or ESS 404 GEU 339 Kemote Sensing GEU 352 Cartography			
Tony 5 creats or a riela Stuay Course may count per category. Unly 6 creats of held study GEU 420 GIS III: Advancea GIS GEU 425 Image Processing may count toward the major. A third course will count as an elective only GEO 440 Field Techniques GEO 441 Quantitative Matheda GPA 7 th Gemeater 8 th Gemeater 9 th			

Name:

Address:

Phone:

General Education								
Required Skills and Competencies	Category A—Logic and Numbers for Rational Thinking	Category B—Linguistic, Literary, Artistic, and Cultural Traditions	Category C—Biological & Physical Sciences	Category D—Political, Economic, and Geographic Sciences	Category E—Social and Behavioral Sciences	University Diversity Requirement		
At Shippensburg the study and	The courses in this category	The courses are designed to	The courses in this category have	Institutions are formal ways	An awareness and recognition of	To complete the University		
investigation begins with the	emphasize the use of symbols as	acquaint the student with the	two comprehensive objectives-1)	which societies and cultures	the disciplines which examine and	diversity requirement		
completion of courses, usually	a means of expressing complex	richness & diversity of aspects of	to make clear what kinds of	create over time to pursue	analyze aroup and individual	undergraduates are required to		
taken during a student's first or	thoughts and information lucidly	culture, especially in literary and	problems in the physical world are	activities important to them. Two	behavior is of increasing	take one approved diversity		
second year, in four required	and accurately.	artistic excellence.	susceptible to scientific	of the most basic institutions in	importance for all who seek to	course for a total of 3 credit		
basic skills. These skills are	°	One CourseLiterature	investigation and what kinds of	any large, collective society are	understand and to predict the	hours. The following courses are		
fluency in writing, fluency in	One course must be taken from	Two Courses Humanities.	solutions such investigation can	its governmental structure and	patterns and processes of human	the currently approved diversity		
speaking, competency in math,	any of the following, with the	<i>Literature</i> (one course)	produce and 2) to provide an	its economic system—that is,	activity. These disciplines	courses.		
and cultural awareness through	exception the mathematics	ENG243 The Art of the Film	appreciation of the practice of	the ways which a society has	examine the causes of human			
historical perspective.	course selected under Basic	ENG248 Intro to Culturally	scientific research and	chosen to regulate the	action and the diversity of its	ART101 Art Appreciation		
	Skills and Competencies may not	Diverse Literature of the U.S.	methodology, with its interaction	interaction between individuals	organization and structure.			
To achieve these basic skills, undergraduates are required to	be used for this requirement.	ENG250 Intro to Literature FRN330 M. of French Lit.	of experiment and hypothesis.	and groups and the ways which it has chosen to satisfy and	One course must be taken from	CRJ361 Race, Ethnicity, & Crime		
take five courses for a total of 15	CPS103 Overview Computer Science	FRN331 M. of Francophone Lit.	One course must be taken from	organize its material needs.	those listed in <i>two</i> of the	ECH460 Family, School, & Comm.		
credit hours:	CPS180 Microcomputer Basic	GER151 German Cinema	those listed in <i>three</i> of the		following disciplines.	Partnerships in Early		
		GER321 Berlin	following disciplines.*	One course must be taken from		Childhood Education		
Fluency in Writing. Students	MAT105 Math for Liberal Studies	GER322 Readings in 19th 20th		those listed in two of the	ANT111 Cultural Anthropology			
must take one of the following for	MAT108 Finite Math	Century German Literature	ANT121 Physical Anthropology	following disciplines.		EEC411 Intro to Exceptionality		
3 credit hours: ENG101 College	MAT110 Fundamentals of Math I	SPN260 Intro to Lit. Studies			GE0140 Cultural Geography			
Writing, or ENG110 Advanced	MAT 117 Applied Statistics	SPN360 M. of Spanish Lit.	BI0100 Basic Biology	ECN101 Prin. of Macroeconomics		ENG242 Intro to Multicul. Lit.		
Placement Writing.	MATI20 Dasic Math Models	SPN361 M. of Spanish-Amer Lit	BIUIUS Biological Sciences: A	ECNIU2 Prin. of Microeconomics	PSYIUI General Psychology	ENG248 Intro to Culturally		
Elemente Granking Chudanta	MATIZE Precalculus	Humanities (2 courses-airt. aisc.)	Laboratory Approach	ECNITS Principles of Economics		Diverse Lit of the U.S.		
Fluency in Speaking. Studerits	MAT 105 Frod W/Stats Reasoning	ARTIOLARI Appreciation	BIO115 Principles of Diology I BIO145 Problems of the	GE0101 World Goography	SUCION INTROduction to Sociology:	ETHIOZ Intro to Culturally		
Communication for 3 credit	MAT211 Calculus I	APT232 Art History I	Environment	GEOTOT World Geography	Society and Diversity	Diverse Lit		
hours	MATZIT CALCULUS T	ART274 Intro to Cultural Studio	BI0150 Human Biology	OLUIUU Ucog U.J. and Canada	WGT100 Intro to Women's St.	DIVEISE LIL.		
nouro.	PHL101 Intro to Philosophy	ART339 History of American Art	BIO208 Field Biology	PLS100 U.S. Govt & Politics		GE0103 Cultural Geography		
Mathematical Competency.	PHL102 Critical Thinking	FRN101 Beainning French I	BIO248 Field Natural History	PLS141 Intro to Intl. Relations		GE0140 Geog of U.S. & Canada		
Students must take one	PHL103 Intro. to Phil. of Mind	FRN102 Beginning French II						
mathematics course listed in	PHL104 Intro. to Religious Stud.	FRN103 Intermediate French	CHM103 Chemistry: A Cultural			MGT447 Business and Society		
Category A, Logic and Numbers	PHL105 Introduction to Ethical	FRN150 French Civilization	Approach			Ů		
for Rational Thinking, for 3 credit	Theories and Problems	FRN200 Introduction to Reading	CHM105 Chemistry: An			SOC101 Intro to Sociology:		
hours, or must place in the		FRN202 Inter. French Conver.	Observational Approach			Society and Diversity		
Advanced College Level through		FRN320 Commercial French I	CHM121 Chemical Bonding			SWK265 Underst. Human Diver.		
the university Mathematics		GER101 Beginning German I				for Social Work Practice		
Examination.		GER102 Beginning German II	ESS108 Conservation of Natural					
		GER103 Intermediate German	Resources			WST100 Intro to Women's		
Historical Perspectives. Students		GER150 German Civ and Culture	ESS110 Introduction to Geology			Studies		
must take the following two		GER200 Introduction to Reading	ESSIII Intro to the Atmosphere					
COURSES FOR A LOLAL OF SIX CREAL		GER203 Inter. German Conver.	ESSZIU Physical Geology					
HIG105 World History		MU6121 Introduction to Music	PHY108 Astronomy					
HIS106 World History II		MUS228 Opera & Music Theatre	PHY110 Physics for Society					
There e we have the terry in		MUS261 World Music	PHY115 Physical Science: A					
Library/Information Skills		SOC370 Sociology of the Arts	Laboratory Approach					
An integral aspect of the gen edu		SPE121 Introduction to Theater	PHY121 Introduction to Physics I					
program is the development of		SPE240 Dramatic Narrative Film	PHY205 Intermediate Physics I					
library and information skills.		SPN101 Beginning Spanish I						
This requirement is fulfilled		SPN102 Beginning Spanish II	*Note: Students majoring in the					
through the completion of a self-		SPN103 Intermediate Spanish	biological or physical sciences are					
paced, on-line tutorial which		SPN150 Spanish Civ and Culture	their major department toward					
provides hands-on experience in		SPN200 Introduction to Reading	satisfying this requirement. Natural			1		
finding information. All students		SPN202 Inter Spanish Conver.	science courses which carry one of the			1		
enrolled in ENG101 (College		SPN330 Commercial Spanish	above courses as a prerequisite and			1		
Writing) or ENG110 Advanced		57N385 Asp. de la Civiliz. Hisp.	elementary education maiors may also			1		
writing must complete this		ouner language courses as offered may be taken in this category	be counted toward this requirement.					
rurofiai.						1		