NAME:_____

GEOGRAPHY, GEOGRAPHIC INFORMATION SYSTEMS MAJOR – B.S.

Geography-Earth Science (39+ Cr)	Allied Sciences (18 Cr)		General Education Requirements (45 CR)			
Required Geography Core (15 Cr)	Social Sciences (6 Cr)		Courses filled-in below are DIRECTED general education			
GEO 105 Physical Geography	(select 2)		classes that MUST be taken for the m	asses that MUST be taken for the major. All		
GEO 202 GIS I: Intro to GIS	PHL 332 Ethical Issues and Comp Tech		education courses can be chosen from the list on the			
GEO 230 Economic Geography	PLS 231 State and Local Government		back of this page.			
GEO 244 Land Use or 322 Urban Geography	PLS 271 Introduction to Public Administration					
GEO 391 Geography Seminar	PLS 331 City Politics and Administration		Foundations ^a			
GIS Core Courses (12 Cr)	PLS 431 Pennsylvania Local Government		(15 cr total)	Cr	Course(s)	
(all are required)	SOC 220 Social Stratification		U	3		
GEO 339 Remote Sensing	SOC 346 City and Community		W	3		
GEO 352 Cartography	SOC 363 Population Problems		0	3		
GEO 363 GIS II: Intermediate GIS			Н	3		
GEO 420 GIS III: Advanced GIS	Art/Computer Science/IMS (9+ Cr)		Q	3	MAT 117	
GIS Technical Electives (6 Cr)	ART 217 Computer Design I		^a One course in each area are required.			
(select 2)	CSC 110 Computer Science I (3) + CSC 106 Lab (1)					
GEO 425 Image Processing	CSC 111 Computer Science II (4)		Interconnections			
GEO 440 Field Techniques I	CSC by advisement		(9 cr total)	Cr	Course(s)	
GEO 441 Quantitative Methods	MIS 142 Business Computer Systems		D^b	3+		
GEO 463 Applied Geophysical Imaging	MIS 240 Intro to Programming Concepts		G ^b	3+		
GEO 4 Geography 400 Level Elective	MIS 300 Info Tech and Business Operations		F	е		
Geography Content Electives (3cr)	MIS 355 Database Applications		^b At least 1 course each from D and G.			
(Select 1)	_					
GEO 244 Land Use	Math (3+ Cr)		Citizenship ^c			
GEO 301 Biogeography	(select 1)		(6 cr total)	Cr	Course(s)	
GEO 310 Transportation Geography	MAT 140A College Algebra (4)*		S	е	PLS 100	
GEO 322 Urban Geography	MAT 140B College Algebra (3)*		E	е		
GEO 427 Environmental Sustainability	MAT 175 Precaculus		R	е	SOC 101	
GEO 444 Env Land Use Planning	MAT 211 Calculus		^c PLS 100 and Soc 101 required.			
Internship (3+ Cr)	MAT 225 Discrete Mathematics					
GEO 360 Internship			Natural World			
Must have 2.0 overall and major GPA,	Technical Writing (3 Cr)		(9cr total)	Cr	Course(s)	
and Junior status.	(required)		N ^d	6+		
	ENG 238 Technical/Professional Writing		T	е	CSC 104	
			^d At least 2 courses from N. CSC 104 re	equirea	l.	
			Creativity			
			(6 cr total)	Cr	Course	
	* MAT 140B is for students with a math placement level		L ^e	3		
	of 4 or higher and is the standard algebra course. MAT		A	е		
	140A is for students with a math placement level 3.		С	е		
	140/13 for students with a math placement level 5.		^e At least 1 L course.			