

## B.A. IN GEOGRAPHY / APPLIED TRACK (Program # 23350, Version # 20123)

MAJOR PROGRAM: 60 S.H.		
<b>1. Core Requirements: 18 S.H.</b>	<u>SH</u>	<u>GR</u>
a. GEG 010 Elements of Physical Geog.		
b. GEG 020 Elements of Cultural Geog.		
c. GEG 274 Introduction to GIS		
d. GEG 330 Cartography		
e. GEG 375 Research Methods in Geog.		
f. GEG 380 Senior Seminar in Geog.†		
†Core courses a. through e. must be completed prior to enrolling in GEG 380, Senior Seminar.		

<b>2. Category Requirements: 9 S.H. One course in 3 of the following categories:</b>		
a. GEG (Cultural or Regional)		
b. GEG (Economic)		
c. GEG (Physical)		
d. GEG (Techniques)		

### **REGIONAL COURSES:**

GEG 101	World Regional Geography
GEG 110	Geography of United States and Canada
GEG 112	Geography of Pennsylvania
GEG 120	Geography of Sub-Saharan Africa
GEG 125	Geography of South America
GEG 127	Geography of Central America and the Caribbean
GEG 140	Geography of Europe

### **PHYSICAL GEOGRAPHY:**

GEG 040	Descriptive Oceanography
GEG 204/205	Meteorology Lecture / Lab
GEG 212	Geography of Natural Hazards
GEG 304/305	Weather Analysis Lecture / Lab
GEG 322	Climatology
GEG 323	Global Warming and the Science of Climate Change
GEG 324/325	Geomorphology Lecture / Lab

### **CULTURAL GEOGRAPHY:**

GEG 210	Environmental Conservation
GEG 225	Spaces of Globalization
GEG 264	Medical Geography
GEG 315	Geographical Influences in American History
GEG 335	Political Geography
GEG 338	Geography of Population

MAJOR PROGRAM (continued)		
<b>3. Applied Track: 18 S.H. Select 5 of the following and GEG 394:</b>	<u>SH</u>	<u>GR</u>
a. GEG 230 Map Reading and Interpretation		
b. GEG 232 Field Methods in Geography		
c. GEG 304/305 Weather Analysis Lecture/Lab		
d. GEG 333 Advanced GIS		
e. GEG 341 Environmental Planning		
f. GEG 343 Land Use Planning		
g. GEG 347/348 Remote Sensing Lecture/Lab		
h. GEG 394 Internship in Geography (required)†		
†Requires 2.5 GPA or better in Geography.		

<b>4. Electives*, 15 S.H. or Minor</b>		
a. MAT 140 or MAT 150 or SOC/PSY/POL 200		
b.		
c.		
d.		
e.		
*All electives must be at 100 level or higher unless used to satisfy a declared minor. Geography courses may <u>not</u> be counted here.		

### **ECONOMIC GEOGRAPHY:**

GEG 220	Economic Geography
GEG 223	Introduction to Transportation Geography
GEG 225	Spaces of Globalization
GEG 310	Urban Geography
GEG 311	Geography of Poverty in North America

### **TECHNIQUES:**

GEG 230	Map Reading and Interpretation
GEG 232	Field Methods in Geography
GEG 274/275	Introduction to GIS Lecture / Lab
GEG 330	Cartography
GEG 333	Advanced GIS
GEG 341	Environmental Planning
GEG 343	Land Use Planning
GEG 347/348	Remote Sensing of the Environment Lecture / Lab
GEG 375	Research Methods in Geography

<b>Approved:</b>
<b>Date:</b>
<b>Check Sheet Updated Feb 2011</b>
<b>Effective: Fall 2011</b>

**COLLEGE OF LIBERAL ARTS & SCIENCES • BA • GEOGRAPHY / APPLIED TRACK**



Program Number: 23350

Version Number: 20123

Effective Date: Fall 2011

**GENERAL EDUCATION**

I. UNIVERSITY CORE (12 credits)	RC	CR	GR	
A. Oral Communication: SPE 010 or above				
COURSE:	3			
B. Written Communication: ENG 023, 024, or 025				
COURSE:	3			
C. Mathematics: MAT 017 or above				
COURSE:	3			
D. Wellness: HEA 110 + activity; or 3-credit Wellness course				
COURSE:	3			
II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WST, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (WI) (9 credits)				
COURSE:	3			WI
COURSE:	3			WI
COURSE:	3			WI
B. Quantitative Literacy (QL) (3 credits) 				
Computer-Intensive (CP) (3 credits)				
COURSE:	3			
C. Visual Literacy (VL) (3 credits) 				
Communication-Intensive (CM) (3 credits)				
COURSE:	3			
D. Cultural Diversity (CD) (3 credits)				
COURSE:	3			CD
E. Critical Thinking (CT) (3 credits)				
COURSE:	3			CT

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits  
 CR = Credits earned (fill in number of credits)  
 GR = Grade earned (fill in letter grade)  
 CAC = Competency Across the Curriculum (fill in designation)

**NOTE:** GEG courses with a lab and 040, 322, and 323 may be used in II.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: MAT, CSC, AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, HIS, ECO, GEG (see note at right), PSY, POL, SOC, CRJ, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (6 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE:	3			
2. Elective: (MLS, GER, SPA, FRE, CHI, or ARA)* or PHI				
COURSE:	3			
D. Modern Languages (6 credits): Two courses at the intermediate level or higher				
COURSE:	3			
COURSE:	3			
E. Free Electives (6 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			

**NOTE:** GEG courses with a lab and 040, 322, and 323 may be used in IV.A. and GEG courses 040, 204, 274, 305, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

# Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 040, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

\* Excludes courses in language instruction, conversation, composition, linguistics, syntax, stylistics, and internship courses; contact the Modern Language Studies Department for clarification.