

Geography and Environmental Studies Programs – Effective Fall 2018

B.S. Geography and Environmental Studies Program [Major #675 – No Minor Required]

Environment and Sustainability Concentration (52 hours)

Common Core Requirements	(26 hours):
GEOG or GEOL 103 Our Dynamic Earth (Colonnade Science)	3 hours*
GEOG 110 World Regional Geography (Colonnade Social)	3 hours*
GEOG 300 Writing in the Geosciences (Colonnade Foundation)	3 hours*
GISC 316 Fundamentals of GIS	4 hours
GISC 317 GIS	4 hours
GEOG 391 Spatial Data Analysis	4 hours
GEOG 475 Mammoth Cave Summer Course/Practicum/Internship	4 hours
OR GEOG 452 Applied Geography Field Experiences	
OR GEOG 475 Independent Topics in Geography	
GEOG 499 Professional Development	1 hour
Required Concentration Courses:	(10 hours):
GEOG 210 Environmental and Ecological Policy	3 hours
GEOG 280 Environmental Science and Sustainability	4 hours*
GEOG 380 Global Sustainability	3 hours*
Elective Courses (Cultural Geography)	(16 hours):
Select from any appropriate GEOG, GISC, or METR 1xx-4xx course with your advisor (examples include 200, 210, 226, 227, 280, 344, 350, 352, 385, 471, 474, 487, etc.) to meet the 52 unduplicated hours required.	
Additional Program Requirements (not included in the 52-hour program)	(6 hours):
• MATH 116 Algebra	3 hours*
• MATH 183 Statistics (prerequisite for GEOG 391)	3 hours*

* Colonnade Courses – refer to the Colonnade requirements for descriptions.

Karst Geoscience and Water Resources Concentration (52 hours)

Common Core Requirements	(26 hours):
GEOG or GEOL 103 Our Dynamic Earth (Colonnade Science)	3 hours*
GEOG 110 World Regional Geography (Colonnade Social)	3 hours*
GEOG 300 Writing in the Geosciences (Colonnade Foundations)	3 hours*
GISC 316 Fundamentals of GIS	4 hours
GISC 317 GIS	4 hours
GEOG 391 Spatial Data Analysis	4 hours
GEOG 475 Mammoth Cave Summer Course/Practicum/Internship	4 hours
OR GEOG 452 Applied Geography Field Experiences	
OR GEOG 475 Independent Topics in Geography	
GEOG 499 Professional Development	1 hour

Required Concentration Courses:	(13 hours):
GEOG 280 Environmental Science and Sustainability	4 hours*
GEOG or GEOL 310 Global Hydrology	3 hours
GEOG 461 Karst Environments	3 hours
GEOG 475 Mammoth Cave Field Course	3 hours

Elective Courses:	(13 hours):
Select from any appropriate GEOG, GEOL, GISC, or METR 1xx-4xx course with your advisor (examples include 226, 227, 322, 328 344, 414, 459, 471, 474, 487, etc.) to meet the 52 unduplicated hours required.	

Additional Program Requirements (not included in the 52-hour program) (13-14 hours):

- **MATH 136 Calculus 1** **4 hours***
- **MATH 183 (Prerequisite for GEOG 391)** **3 hours***
- **PHYS 201 College Physics I** **4 hours***
 or BIOL 122 Biological Concepts **3 hours**
- **CHEM 120 College Chemistry I** **3 hours***

* Colonnade Courses – refer to the Colonnade requirements for descriptions.

Climate Systems Concentration (52 hours)

Common Core Requirements	(26 hours):
GEOG or GEOL 103 Our Dynamic Earth (Colonnade Science)	3 hours*
GEOG 110 World Regional Geography (Colonnade Social)	3 hours*
GEOG 300 Writing in the Geosciences (Colonnade Foundations)	3 hours*
GISC 316 Fundamentals of GIS	4 hours
GISC 317 GIS	4 hours
GEOG 391 Spatial Data Analysis	4 hours
GEOG 475 Mammoth Cave Summer Course/Practicum/Internship	4 hours
OR GEOG 452 Applied Geography Field Experiences	
OR GEOG 475 Independent Topics in Geography	

GEOG 499 Professional Development	1 hour
Required Concentration Courses:	(10 hours):
METR 121 Introduction to Meteorology	3 hours*
METR 322 Global Climate Systems	4 hours*
GEOG 455 Global Climate Change	3 hours
Elective Courses (Environment and Climate Area)	(16 hours):
Select from any appropriate GEOG, GISC, or METR 1xx-4xx course with your advisor (examples include 121, 226, 227, 322, 328 344, 414, 459, 471, 474, 487, etc.) to meet the 52 unduplicated hours required. At least 26 hours in the program must be at the upper division level.	
Additional Program Requirements (not included in the 52-hour program)	(6 hours):
<ul style="list-style-type: none"> • MATH 116 Algebra • MATH 183 Statistics (prerequisite for GEOG 391) 	<ul style="list-style-type: none"> 3 hours* 3 hours*

* Colonnade Courses – refer to the Colonnade requirements for descriptions.

Tourism and Development Concentration (52 hours)

Common Core Requirements	(26 hours):
GEOG or GEOL 103 Our Dynamic Earth (Colonnade Science)	3 hours*
GEOG 110 World Regional Geography (Colonnade Social)	3 hours*
GEOG 300 Writing in the Geosciences (Colonnade Foundation)	3 hours*
GISC 316 Fundamentals of GIS	4 hours
GISC 317 GIS	4 hours
GEOG 391 Spatial Data Analysis	4 hours
GEOG 475 Mammoth Cave Summer Course/Practicum/Internship	4 hours
OR GEOG 452 Applied Geography Field Experiences	
OR GEOG 475 Independent Topics in Geography	
GEOG 499 Professional Development	1 hour
Required Concentration Courses:	(6 hours):
GEOG 330 Introduction to Cultural Geography	3 hours*
GEOG 481 Tourism Geography	3 hours*
Elective Courses (Tourism and Development Area)	(20 hours):
Select from any appropriate GEOG, GISC, or METR 1xx-4xx course with your advisor (examples include 200, 210, 226, 227, 280, 344, 350, 352, 385, 471, 474, 487, etc.) to meet the 52 unduplicated hours required.	

Additional Program Requirements (not included in the 52-hour program) (6 hours):

- MATH 116 Algebra 3 hours*
- MATH 183 Statistics (prerequisite for GEOG 391) 3 hours*

* Colonnade Courses – refer to the Colonnade requirements for descriptions.

Geography Concentration (52 hours)

Common Core Requirements	(26 hours):
GEOG or GEOL 103 Our Dynamic Earth (Colonnade Science)	3 hours*
GEOG 110 World Regional Geography (Colonnade Social)	3 hours*
GEOG 300 Writing in the Geosciences (Colonnade Foundation)	3 hours*
GISC 316 Fundamentals of GIS	4 hours
GISC 317 GIS	4 hours
GEOG 391 Spatial Data Analysis	4 hours
GEOG 475 Mammoth Cave Summer Course/Practicum/Internship OR GEOG 452 Applied Geography Field Experiences OR GEOG 475 Independent Topics in Geography	4 hours
GEOG 499 Professional Development	1 hour

Required Concentration Courses:	(6 hours):
GEOG 330 Introduction to Cultural Geography	3 hours*
GEOG 430 Topics in Cultural Geography	3 hours

Elective Courses (Cultural Geography) (20 hours):
Select from any appropriate GEOG, GISC, or METR 1xx-4xx course with your advisor (examples include 200, 210, 226, 227, 280, 344, 350, 352, 385, 471, 474, 487, etc.) to meet the 52 unduplicated hours required.

Additional Program Requirements (not included in the 52-hour program) (6 hours):

- MATH 116 Algebra 3 hours*
- MATH 183 Statistics (prerequisite for GEOG 391) 3 hours*

* Colonnade Courses – refer to the Colonnade requirements for descriptions.

HONORS IN GEOGRAPHY Concentration

- Program Requirements 52 hours
- 26 hours of Common Core courses taken as Honors approved or HEEC.
- Program Electives 26 hours: HONS 403 Thesis for 6 hours, or 475 or 495, plus electives

Additional requirements: MATH 116 and MATH 183, and one Ethics course: PHIL 320 or GEOG 444

**Effective for Students declaring the Geography and Environmental Studies Major in Fall 2018 or thereafter.
Updated 1/14/2019**