

# UNIVERSITY STUDIES - BS, GEOGRAPHY CONCENTRATION

The discipline of Geography examines and describes the human environment: Earth. Understanding Earth requires a consideration of both natural and social processes, hence Geography is by nature interdisciplinary. Human-Environment interactions are of particular interest in Geography. The area of concentration in Geography offers students a broad perspective of Earth as a human habitat, while permitting them to complete two supporting minors in other disciplines. The area of concentration is flexible in that numerous courses are included to permit students to build a course of study in Geography that is tailored to their interests. Ideally, the minors would be in related fields to build depth and breadth around themes that are of most interest to the student.

## Program Requirements

Code	Title	Semester	Credit Hours
GEOG 201	Introduction to Human Geography		3
GEOG 202	Geography of the Global Village		3
GEOG 203	Planet Earth		3
Select one of the following: 3			
GEOG 232	Cartography and Visualization		
GEOG 304	Economic Geography		
GEOG 306	Introduction to Urban Geography		
GEOG 309	Geography of Energy		
GEOG 311	Cultural Geography		
GEOG 312	Data Analysis in Geography		
GEOG 324	Global Climatic Regions		
GEOG 330	Resources and the Environment		
GEOG 331	Geomorphology		
GEOG 335	Pattern and Process in Biogeography		
GEOG 352/ GEOL 352	GNSS in the Geosciences		
GEOG 355	Concepts in Geographic Education		
GEOG 360	Natural Hazards		
GEOG 361	Remote Sensing in Geosciences		
GEOG 370/ MARS 370	Coastal Processes		
GEOG 380	Workshop in Environmental Studies		
GEOG 390	Principles of Geographic Information Systems		
GEOG 398	Interpretation of Aerial Photographs		
GEOG 400	Arid Lands Geomorphology		
GEOG 401	Political Geography		
GEOG 404	Spatial Thinking, Perception and Behavior		
GEOG 406	Geographic Perspectives on Contemporary Urban Issues		
GEOG 420	Geography of Terrorism		

GEOG 430	Environmental Justice		
GEOG 434	Hydrology and Environment		
GEOG 435	Principles of Plant Geography		
GEOG 440	History and Nature of Geography		
GEOG 442/ GEOS 442	Past Climates		
GEOG 450	Field Geography		
GEOG 462/ ECCB 406	Advanced GIS Analysis for Natural Resources Management		
GEOG 467	Dynamic Modeling of Earth and Environmental Systems		
GEOG 475	Advanced Topics in GIS (Geographic Information Systems)		
GEOG 476	GIS Practicum		
GEOG 485	Directed Studies		
GEOG 489	Special Topics in...		
GEOG 491	Research		
Select two of the following: 6			
GEOG 400	Arid Lands Geomorphology		
GEOG 401	Political Geography		
GEOG 404	Spatial Thinking, Perception and Behavior		
GEOG 406	Geographic Perspectives on Contemporary Urban Issues		
GEOG 420	Geography of Terrorism		
GEOG 430	Environmental Justice		
GEOG 434	Hydrology and Environment		
GEOG 435	Principles of Plant Geography		
GEOG 440	History and Nature of Geography		
GEOG 442/ GEOS 442	Past Climates		
GEOG 450	Field Geography		
GEOG 462/ ECCB 406	Advanced GIS Analysis for Natural Resources Management		
GEOG 467	Dynamic Modeling of Earth and Environmental Systems		
GEOG 475	Advanced Topics in GIS (Geographic Information Systems)		
GEOG 476	GIS Practicum		
GEOG 485	Directed Studies		
GEOG 489	Special Topics in...		
GEOG 491	Research		
Select two of the following: 6			
GEOG 301	Geography of the United States <sup>1</sup>		
GEOG 304	Economic Geography		
GEOG 305	Geography of Texas <sup>1</sup>		
GEOG 306	Introduction to Urban Geography		
GEOG 309	Geography of Energy		
GEOG 311	Cultural Geography		
GEOG 312	Data Analysis in Geography		
GEOG 320	The Middle East		
GEOG 323	Geography of Latin America		
GEOG 324	Global Climatic Regions		
GEOG 325	Geography of Europe		

GEOG 327	Geography of South Asia	
GEOG 330	Resources and the Environment	
GEOG 331	Geomorphology	
GEOG 335	Pattern and Process in Biogeography	
GEOG 352/ GEOL 352	GNSS in the Geosciences	
GEOG 355	Concepts in Geographic Education	
GEOG 360	Natural Hazards	
GEOG 361	Remote Sensing in Geosciences	
GEOG 370/ MARS 370	Coastal Processes	
GEOG 380	Workshop in Environmental Studies	
GEOG 390	Principles of Geographic Information Systems	
GEOG 398	Interpretation of Aerial Photographs	
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GEOG 476	GIS Practicum	
GEOG 485	Directed Studies	
GEOG 489	Special Topics in...	
GEOG 491	Research	

**University and College Requirements**

GEOG 213	Planet Earth Lab	1
MATH 140	Mathematics for Business and Social Sciences	3
MATH 142	Business Calculus	3
POLS 206	American National Government	3
POLS 207	State and Local Government	3
Life and Physical Science electives <sup>2</sup>		8

Select one of the following:

ATMO 201	Weather and Climate & ATMO 201 and Weather and Climate & OCNG 251 Laboratory & OCNG 252 and Oceanography and Oceanography Laboratory	
BIOL 101	Botany	

& BIOL 107 and Zoology		
BIOL 111	Introductory Biology I	
& BIOL 112 and Introductory Biology II		
CHEM 119	Fundamentals of Chemistry I	
& CHEM 120 and Fundamentals of Chemistry II		
GEOL 101	Principles of Geology	
& GEOL 102 and Principles of Geology & GEOL 106 Laboratory and Historical Geology		
PHYS 201	College Physics	
& PHYS 202 and College Physics		
American History ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a> )		6
Communication ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication</a> )		6
Creative Arts ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a> )		3
Language, Philosophy and Culture ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a> )		3
Social and Behavioral Sciences ( <a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences</a> )		3
Minor 1		15-18
Minor 2		15-18
General Electives <sup>3</sup>		18-24
<b>Total Semester Credit Hours</b>		<b>120</b>

<sup>1</sup> GEOG 301 and GEOG 305 cannot be used in combination to meet this requirement.  
<sup>2</sup> Department requires that you take 8 hours Life & Physical Sciences in the same discipline to meet this requirement.  
<sup>3</sup> Any 100-499 course not used elsewhere.

Two courses that meet the writing requirement are required.

A graduation requirement includes 3 hours of international and cultural diversity (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/>) course and 3 hours of cultural discourse (<http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/>). A course satisfying a University Core category, a college/department requirement, or a free elective may be used to satisfy this requirement.