

GEOGRAPHY - BS

Being fundamentally interdisciplinary, the Department of Geography offers exciting opportunities to explore the physical and human environment in the field, laboratory, and classroom. Students engage with faculty to examine the physical, environmental, cultural, economic, political, and social processes that drive our world.

This Bachelor of Science degree requires coursework taken in Geography, including a set of foundational courses followed by upper-level courses in Human Geography, Geography of the Natural Environment, Human-Environment Interactions, or Geographic Information Science and Technology. The degree offers the flexibility to explore double majors and minors in complementary fields.

Using geospatial methods, geography graduates are uniquely skilled to draw connections between human and physical processes, providing them career options in government agencies, industries, and businesses aimed at social services, research, natural resources, and spatial analysis. Geographers also often work in education, development, and private consulting.

Program Requirements

First Year

Fall		Semester Credit Hours
GEOG 201	Introduction to Human Geography	3
GEOG 215	Geospatial Cornerstone	1
Life and physical sciences ¹		4
Select one of the following:		
OCNG 251 & OCNG 252	The Blue Planet - Our Oceans and The Blue Planet - Our Oceans Laboratory	
GEOL 101 & GEOL 102	Principles of Geology and Principles of Geology Laboratory	
BIOL 111	Introductory Biology I	
CHEM 119	Fundamentals of Chemistry I	
PHYS 201	College Physics	
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Semester Credit Hours		14

Spring		
GEOG 203	Planet Earth	3
GEOG 213	Planet Earth Lab	1
MATH 140	Mathematics for Business and Social Sciences	3
Life and physical sciences ¹		4
Select one of the following:		
ATMO 201 & ATMO 202	Weather and Climate and Weather and Climate Laboratory	
GEOL 106	Historical Geology	
BIOL 112	Introductory Biology II	

CHEM 120	Fundamentals of Chemistry II	
PHYS 202	College Physics	
Human geography elective ²		3
Semester Credit Hours		14

Second Year

Fall		
GEOG 232	Cartography and Visualization	3
MATH 142	Business Calculus	3
POLS 206	American National Government	3
STAT 303	Statistical Methods	3
Physical geography elective ³		3
Semester Credit Hours		15

Spring

POLS 207	State and Local Government	3
Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)		3
Human geography elective ²		3
Physical geography elective ³		3
General elective ⁴		4
Semester Credit Hours		16

Third Year

Fall		
GEOG 390	Principles of Geographic Information Systems	4
American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history)		3
Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)		3
Geography elective ⁵		3
General elective ⁴		3
Semester Credit Hours		16

Spring

Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Geography elective ⁵		6
General elective ⁴		6
Semester Credit Hours		15

Fourth Year

Fall		
GEOG 450	Field Geography	3
General elective ⁴		12
Semester Credit Hours		15

Spring

GEOG 440	History and Nature of Geography	3
General elective ⁴		12
Semester Credit Hours		15
Total Semester Credit Hours		120

¹ 8 hours required. Department requires that you take two in the same discipline to meet this requirement.

² Select from GEOG 301, GEOG 304, GEOG 305, GEOG 306, GEOG 309, GEOG 311, GEOG 320, GEOG 323, GEOG 325, GEOG 327, GEOG 330, GEOG 401, GEOG 406, GEOG 420, GEOG 430.

³ Select from GEOG 324, GEOG 331, GEOG 335, GEOG 360, GEOG 370/MARS 370, GEOG 400, GEOG 434, GEOG 435, GEOG 442/GEOS 442.

⁴ Courses to be selected in consultation with advisor. Select any courses from 100-499 not used elsewhere. (Except AERS 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/aers/>); ASCC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/ascc/>); ENGL 103; KINE 198, KINE 199; MATH 102-104, 131, 141-142, 150-151, 166, 171 (<http://catalog.tamu.edu/undergraduate/course-descriptions/math/>); MLSC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/mlsc/>); NVSC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/nvsc/>); SOMS 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/soms/>); STAT 211, STAT 302, STAT 303;).

⁵ Choose from any 300 or 400-level geography course.

Two courses in the degree plan must be Writing Intensive courses designated by the department in the schedule of classes. Also, International and Cultural Diversity Elective (3 hours) and Cultural Discourse (3 hours) must be incorporated into the degree.