## GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY - BS

## **Program Requirements**

GEOG 203 Planet Earth 48 GEOG 213 and Planet Earth Lab GEOG 215 Geospatial Cornerstone 1 MATH 140 Mathematics for Business and Social Sciences 1  Life and physical sciences 1  Select from the following:  ATMO 201 Weather and Climate 8 ATMO 202 and Weather and Climate Laboratory BIOL 101 Botany BIOL 111 Introductory Biology I CHEM 119 Fundamentals of Chemistry I GEOL 101 Principles of Geology A GEOL 102 and Principles of Geology Laboratory PHYS 201 College Physics Communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication  Semester Credit Hours 15  Spring GEOG 201 Introduction to Human Geography 3 MATH 142 Business Calculus 3 POLS 206 American National Government 3 Life and physical sciences 1 Select from the following: BIOL 107 Zoology BIOL 117 Introductory Biology II CHEM 120 Fundamentals of Chemistry II GEOL 106 Historical Geology PHYS 202 College Physics OCNG 251 The Blue Planet - Our Oceans Laboratory  Communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication)  Semester Credit Hours 16  Second Year Fall  GEOG 232 Cartography and Visualization 3  CSCE 110 Programming I or Introduction to Computer Science Concepts and Programming	First Year Fall		Semester	
& GEOG 215 Geospatial Cornerstone 1 MATH 140 Mathematics for Business and Social 3 Sciences  Life and physical sciences 1 4  Select from the following: ATMO 201 Weather and Climate & ATMO 202 and Weather and Climate Laboratory BIOL 101 Botany BIOL 111 Introductory Biology I CHEM 119 Fundamentals of Chemistry I GEOL 101 Principles of Geology & GEOL 102 and Principles of Geology & GEOL 102 and Principles of Geology Laboratory PHYS 201 College Physics  Communication (http://catalog.tamu.edu/undergraduate/ 3 general-information/university-core-curriculum/ #communication)  Semester Credit Hours 15  Spring GEOG 201 Introduction to Human Geography 3 MATH 142 Business Calculus 3 POLS 206 American National Government 3 Life and physical sciences 1 4 Select from the following: BIOL 107 Zoology BIOL 112 Introductory Biology II CHEM 120 Fundamentals of Chemistry II GEOL 106 Historical Geology PHYS 202 College Physics OCNG 251 The Blue Planet - Our Oceans & OCNG 252 and The Blue Planet - Our Oceans Laboratory  Communication (http://catalog.tamu.edu/undergraduate/ 3 general-information/university-core-curriculum/ #communication)  Semester Credit Hours 16  Second Year Fall GEOG 232 Cartography and Visualization 3 CSCE 110 Programming I 4 or CSCE 111 or Introduction to Computer Science			Credit Hours	
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CHEM 120 Fundamentals of Chemistry II  GEOL 106 Historical Geology PHYS 202 College Physics  OCNG 251 The Blue Planet - Our Oceans & OCNG 252 and The Blue Planet - Our Oceans Laboratory  Communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication)  Semester Credit Hours 16  Second Year Fall  GEOG 232 Cartography and Visualization 3  CSCE 110 Programming I 4 or CSCE 111 or Introduction to Computer Science		<b>3</b> ,		
GEOL 106 Historical Geology PHYS 202 College Physics  OCNG 251 The Blue Planet - Our Oceans & OCNG 252 and The Blue Planet - Our Oceans Laboratory  Communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication)  Semester Credit Hours 16  Second Year Fall  GEOG 232 Cartography and Visualization 3  CSCE 110 Programming I 4 or CSCE 111 or Introduction to Computer Science		* **		
PHYS 202 College Physics  OCNG 251 The Blue Planet - Our Oceans & OCNG 252 and The Blue Planet - Our Oceans Laboratory  Communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication)  Semester Credit Hours 16  Second Year Fall  GEOG 232 Cartography and Visualization 3  CSCE 110 Programming I 4 or CSCE 111 or Introduction to Computer Science		•		
OCNG 251 The Blue Planet - Our Oceans & OCNG 252 and The Blue Planet - Our Oceans Laboratory  Communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication)  Semester Credit Hours 16  Second Year Fall  GEOG 232 Cartography and Visualization 3  CSCE 110 Programming I 4 or CSCE 111 or Introduction to Computer Science				
& OCNG 252 and The Blue Planet - Our Oceans Laboratory  Communication (http://catalog.tamu.edu/undergraduate/ general-information/university-core-curriculum/ #communication)  Semester Credit Hours 16  Second Year Fall  GEOG 232 Cartography and Visualization 3  CSCE 110 Programming I 4 or CSCE 111 or Introduction to Computer Science				
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Fall  GEOG 232 Cartography and Visualization 3  CSCE 110 Programming I 4  or CSCE 111 or Introduction to Computer Science		Semester Credit Hours	16	
CSCE 110 Programming I 4 or CSCE 111 or Introduction to Computer Science				
or CSCE 111 or Introduction to Computer Science	GEOG 232	Cartography and Visualization	3	
		Programming I or Introduction to Computer Science	4	

POLS 207	State and Local Government	3
	y (http://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#american-	3
history)	,,	
	vioral sciences (http://catalog.tamu.edu/	3
	general-information/university-core-	
curriculum/#soc	cial-behavioral-sciences)	
	Semester Credit Hours	16
Spring	CNICC in the Constitution	2
GEOG 352/ GEOL 352	GNSS in the Geosciences	3
STAT 303	Statistical Methods	3
	y (http://catalog.tamu.edu/undergraduate/	3
	tion/university-core-curriculum/#american-	
Language, philos	sophy and culture (http://catalog.tamu.edu/	3
	general-information/university-core-	
	guage-philosophy-culture)	
Human or physic	cal geography elective <sup>2</sup>	3
TI: 137	Semester Credit Hours	15
Third Year Fall		
GEOG 361	Demote Consing in Consciences	4
GEOG 361	Remote Sensing in Geosciences Principles of Geographic Information	4
GEOG 390	Systems	4
	tp://catalog.tamu.edu/undergraduate/	3
arts)	tion/university-core-curriculum/#creative-	
General elective	3	3
Consissor	Semester Credit Hours	14
Spring	Data Anahais in Casamanhu	2
GEOG 312 GIST techniques	Data Analysis in Geography	3
General elective		8
General elective	Semester Credit Hours	°
Fourth Year	Semester Credit Hours	15
Fall		
GEOG 450	Field Geography	3
GIST techniques		4
General elective		7
Certeral elective	Semester Credit Hours	14
Spring	Commencer Great Floure	
GEOG 476	GIS Practicum	3
Advanced GIST		4
General elective		8
	Semester Credit Hours	15
	Total Semester Credit Hours	120
1 .		
	and Demonstrate and accomplisate above account of the contract	

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

Select from GEOG 301, GEOG 304, GEOG 305, GEOG 306, GEOG 309, GEOG 311, GEOG 320, GEOG 323, GEOG 324, GEOG 325, GEOG 327, GEOG 330, GEOG 331, GEOG 335, GEOG 355, GEOG 360, GEOG 370/ MARS 370, GEOG 380, GEOG 400, GEOG 401, GEOG 404, GEOG 406,

- GEOG 420, GEOG 430, GEOG 434, GEOG 435, GEOG 440, GEOG 442/ GEOS 442, GEOG 467.
- <sup>3</sup> 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; MATH 142, MATH 150, MATH 151, MATH 168, MATH 171; 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).
- Select from GEOG 391, GEOG 392, GEOG 398, GEOG 461, GEOG 475, GEOG 477, GEOG 478, GEOG 479.
- Select from GEOG 461, GEOG 475, GEOG 479. A course used to fulfill this requirement cannot also be counted as fulfilling a GIST techniques elective.

Two courses in the degree plan must be Writing Intensive courses designated by the department in the schedule of classes. Also, 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) and 3 hours of Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/) must be incorporated into the degree.