

MASTER OF SCIENCE IN GEOGRAPHIC INFORMATION SYSTEMS

The applied Geographic Information System (GIS) program will give students the critical knowledge to succeed in the challenging world of geospatial technologies. This includes advanced classes and labs in global positioning systems (Trimble), remote sensing (ERDAS IMAGINE), GIS (ArcGIS) and web-based mapping and spatial analysis. In particular, applications of these technologies in the oil and gas industry, public health sector, parcel mapping, local government, national security and market research are featured. Additionally, this program is designed to enhance an individual's knowledge in geographic information science and technology as well as the applications in resource management, asset management, environmental impact assessment, and urban planning.

Applicants seeking admission to the Master of Science in Geographic Information Systems must submit the following directly to the Office of Graduate Admissions:

1. Graduate Application (<http://www.shsu.edu/admissions/apply-texas.html>)
2. Application fee (<http://www.shsu.edu/dept/graduate-studies/application-fee.html>)
3. Official transcript(s) of all previous college work
4. Official GRE scores
5. Two letters of recommendation from faculty in the student's major at the undergraduate degree-granting institution

The degree requires thirty-six hours of graduate credit. A written comprehensive examination is administered by the comprehensive exam advisory committee for each degree candidate. The written examination must be scheduled with the GIS Graduate Program Coordinator at least four weeks in advance. Students must be enrolled the semester in which they take the comprehensive examination. Requirements specified in the degree plan are subject to minor modification. All graduate coursework must be approved by the GIS Graduate Program Coordinator

Plan 1 - MS in Geographic Information Systems (Non-Thesis Option)

Code	Title	Hours
Master of Science in Geographic Information Systems (Non-thesis option)		
Specified Courses		
GEOG 5361	Geographic Information	3
GEOG 5362	GIS Principles And Application	3
GEOG 5364	Spatial Analysis	3
GEOG 5365	Digital Image Processing	3
GEOG 5366	Cartography And Visualization	3
GEOG 5367	GIS Programming	3
Electives		
Select six of the following:		18
GEOG 5310	GIS Project Management	
GEOG 5311	GIS in Law Enforcement	
GEOG 5312	GIS ModelBuilder	
GEOG 5363	Internet Gis	
GEOG 5368	Gis Program Use And Applicatns	
GEOG 5369	Internship In Gis	
GEOG 5371	Geographic Information Systems in Enenergy-Related Fields	
GEOG 5373	Introduction to LiDAR & Radar	
GEOG 5374	Advanced GIS Analysis	
GEOG 6061	Graduate Seminar In GIS	
Total Hours		36

Plan 2 - MS in Geographic Information Systems (Thesis Option)

Code	Title	Hours
Master of Science in Geographic Information Systems (Thesis option)		
Specified Courses		
GEOG 5361	Geographic Information	3

GEOG 5362	GIS Principles And Application	3
GEOG 5364	Spatial Analysis	3
GEOG 5365	Digital Image Processing	3
GEOG 5366	Cartography And Visualization	3
GEOG 5367	GIS Programming	3
GEOG 6061	Graduate Seminar In GIS	3
Electives		
Select three of the following:		9
GEOG 5310	GIS Project Management	
GEOG 5311	GIS in Law Enforcement	
GEOG 5312	GIS ModelBuilder	
GEOG 5363	Internet Gis	
GEOG 5368	Gis Program Use And Applicatns	
GEOG 5369	Internship In Gis	
GEOG 5371	Geographic Information Systems in Enenergy-Related Fields	
GEOG 5373	Introduction to LiDAR & Radar	
GEOG 5374	Advanced GIS Analysis	
Thesis		
GEOG 6099	Thesis II ¹	3
GEOG 6398	Thesis I	3
Total Hours		36

¹ Once enrolled in GEOG 6099, students must continuously enroll in this course until graduation.