

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 GIS (ArcGIS), remote sensing (ERDAS IMAGINE), web-based mapping, model builder, programming, and spatial analysis. In particular, this program is designed to enhance an individual's knowledge in geographic information science and technology. Additionally, applications of the technology in the oil and gas industry, public health sector, parcel mapping, local government, national security, and market research are featured.

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 (international students must submit a third party evaluation of official transcripts for degrees from universities outside the United States).
4. Official GRE scores
5. TOEFL scores for international students
6. 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 5363	Internet GIS	3
GEOG 5364	Spatial Analysis	3
GEOG 5365	Digital Image Processing	3
GEOG 5366	Cartography And Visualization	3
GEOG 5367	GIS Programming	3
GEOG 5310	GIS Project Management	3
GEOG 5311	GIS in Law Enforcement	3
GEOG 5312	GIS ModelBuilder	3
GEOG 5373	Introduction to LiDAR & Radar	3
Elective Courses		
GEOG 5371 or GEOG 5369	Geographic Information Systems in Energy-Related Fields Internship in GIS	3
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 5310	GIS Project Management	3
GEOG 5312	GIS ModelBuilder	3
GEOG 5363	Internet GIS	3
GEOG 5373	Introduction to LiDAR & Radar	3
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.