

GEOSPATIAL INFORMATION SCIENCE-BASIC, GRADUATE CERTIFICATE

Admission Requirements

Students may pursue the graduate certificate while enrolled in the any master's program **or** as a certificate-only student.

- Students already enrolled in the master's degree program should submit to the Graduate College a Secondary Program Request form at <https://www.marshall.edu/graduate> (<http://www.marshall.edu/graduate/>).
- Applicants interested in the certificate-only program should apply for admission to Marshall University as a Certificate/Professional Development student and select on the application form the Certificate in Geospatial Information Science-Basic.

Program Requirements

A graduate certificate in Geospatial Information Science-Basic consists of a minimum of 12 graduate hours in courses designated as GIScience Courses, including regularly offered courses as well as special topics courses. Students must have a *B* (3.0) average in their GIScience courses and no grade below a *C* (2.0) in their GIScience courses to earn the certificate. The program is designed to:

- offer GIS study in a variety of disciplines with a variety of applications;
- teach students GIS techniques;
- teach students to apply GIS to solve scientific research problems;
- encourage students to gain experience in the GIS field by means of internships;
- integrate GIS applications with computer science concepts;
- prepare students for GIS employment, or additional work at the doctoral level.

Plan of Study

Code	Title	Credit Hours
GIScience Required Course		
GEO 526	Principles of GIS ¹	4
GIScience Electives		
Select at least two of the following:		8
BSC/PS 510	Remote Sensing/GIS Appl	
BSC/PS 511	Dgtl Image Proc/GIS Model	
GEO 529	Location Analysis and GIS	
GEO 530	GIS-Raster Analysis	
GEO 531	Remote Sensing & Photogram	
GEO 532	Enterprise GIS	
GEO 533	GPS & Mobile Geospatial T	
GEO 540	Spatial Statistics and GIS	

GEO 631	Applied GIS Projects	
GEO 690	Internship in Geography (must be GIScience approved by advisor in advance)	
IS 645	Geographic Information Systems	
PS 670	Advanced Practicum (must be GIScience approved by advisor in advance)	
Special Topics courses as approved by advisor in advance		
Total Credit Hours		12

¹ Requirement waived if GEO 426 Principles of GIS or its equivalent taken as an undergraduate