

GEOGRAPHIC INFORMATION SCIENCES (GRADUATE CERTIFICATE)

The Graduate Certificate in Geographic Information Sciences (GIS) equips students for careers that require the creation, use, and analysis of spatial data. It is pertinent to a variety of fields, including urban planners, public health experts, landscape biologists, geologists, environmental scientists, transportation planners, criminologists, etc.

Applicants must meet the admission standards of the Graduate School (<http://bulletins.wayne.edu/graduate/general-information/admission/>). In addition, applicants must submit a completed application form, evidence of a completed baccalaureate degree from an accredited college or university with a g.p.a of 3.0 or more, two letters of recommendation, and a personal statement on why the student would like to pursue the Graduate Certificate in GIS.

The Graduate Certificate in GIS requires a minimum of 12 credits. The actual number of credits completed for the certificate will depend on the combination of 3- and 4-credit classes that students take.

Code	Title	Credits
Core course		
UP 6700	Geographic Information Systems	4
Elective courses		
UP 7130	Advanced GIS Applications	4
ESG 5650	Applied Geologic Mapping	4
ESG 6160	Applied Remote Sensing	3
ESG 6170	Spatial Statistics and Analyses for Environmental Applications	3
INF 6050	Computer Programming	3
ET 5600	Python: Industrial Applications	3