

UW-LA CROSSE GEOGRAPHY & ENVIRONMENTAL SCIENCE

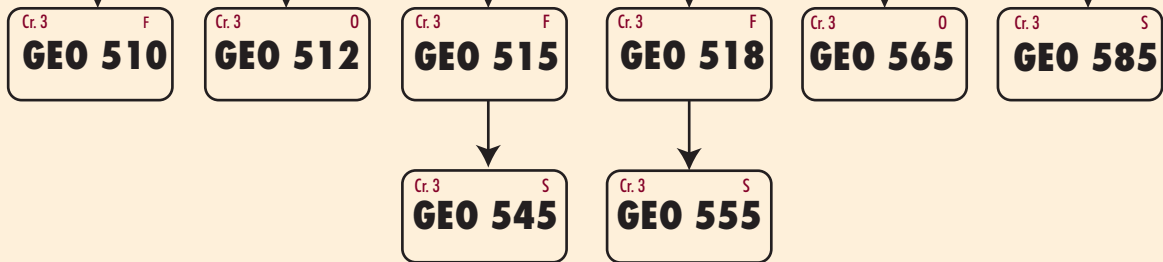
FUNDAMENTALS OF GIS GRADUATE CERTIFICATE (9 CREDITS)

CORE REQUIREMENT:

*GEO 305 and STAT 145 are prerequisites for GEO 505

Cr. 3 F,S
GEO 505

A foundation in GIS through prior coursework or professional work experience, approved by the department, is required for admission to the Fundamentals of GIS Program. Students without prior GIS experience can meet this requirement by completing GEO 590 Independent Study. This course will provide the foundational GIS knowledge taught in GEO 305 Geographic Information Systems and Science I and additional GIS graduate level applications and learning objectives. Credits earned in GEO 590 do not count towards the Fundamentals of GIS Program.



**GEOSPATIAL
TECHNIQUES
ELECTIVES
(6 CREDITS)**

PREREQUISITES:



LEGEND (WHEN OFFERED):

A = ANNUALLY S = SPRING SU = SUMMER
 O = OCCASIONALLY AY = ALTERNATE YEARS EY = EVEN NUMBERED YEARS
 F = FALL OY = ODD NUMBERED YEARS ** = JR/SR STANDING

Fundamentals of Geographic Information Science (GIS) Graduate Certificate**9 CREDITS**

A foundation in geographic information science (GIS) through prior coursework or professional work experience, approved by the department, is required for admission to the Fundamentals of GIS Program. Students without prior GIS experience can meet this requirement by completing GEO 590 Independent Study. This course will provide the foundational GIS knowledge taught in GEO 305 Geographic Information Systems and Science I and additional GIS graduate level applications and learning objectives. Credits earned in GEO 590 do not count towards the Fundamentals of GIS Program.

Core Requirement:

Name	Credits	Description	Prerequisite	Offered
GEO 505	3	Geographic Information System and Science II	GEO 305; STAT 145	F, S

Geospatial Techniques Electives (Choose 6 Credits)

Name	Credits	Description	Prerequisite	Offered
GEO 510	3	Geospatial Field Methods	GEO 505	F
GEO 512	3	Geospatial Applications of Unmanned Aerial Systems	GEO 505	O
GEO 515	3	Remote Sensing of the Environment I	GEO 505	F
GEO 518	3	Map Design and Geovisualization	GEO 505	F
GEO 545	3	Remote Sensing of the Environment II	GEO 515	S
GEO 555	3	Web Mapping	GEO 518	S
GEO 565	3	Scripting in GIS	GEO 505	O
GEO 585	3	Geographic Information System and Science III	GEO 505	S

* This certificate is not open to Geography majors and GIS minors.

* Students are required to develop a GIS portfolio and submit it to the program advisor to complete the Fundamentals of GIS Program.

* Offered Codes: F = Fall; W = Winter; S = Spring; Su = Summer; O = Occasionally; F-Odd = Fall, Odd Years; F-Even = Fall, Even Years; S-Odd = Spring, Odd Years; S-Even = Spring, Even Years