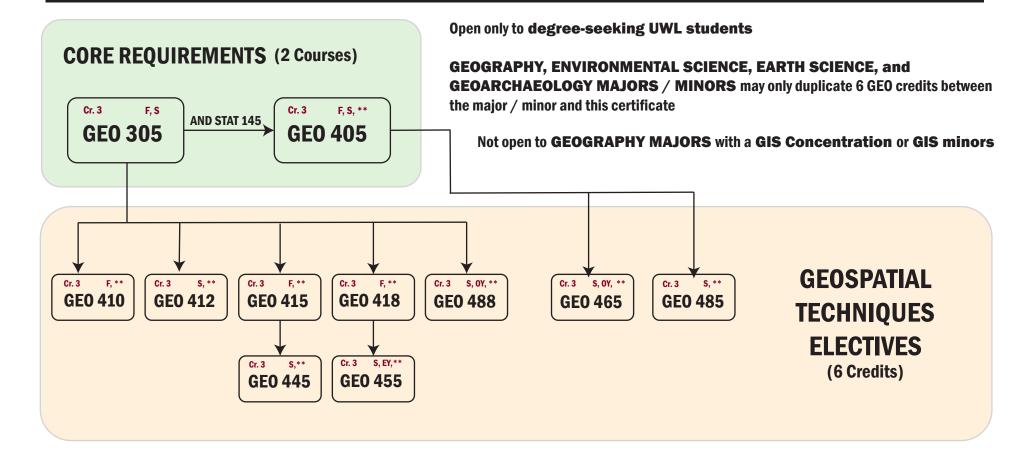
GEOGRAPHY CERTIFICATE: GEOGRAPHIC INFORMATION SCIENCE CONCENTRATION



PREREQUISITES: LEGEND:

REQUIRED

 F = FALL
 0 = OCCASIONALLY

 S = SPRING
 OY = ODD NUMBERED YEARS

 SU = SUMMER
 EY = EVEN NUMBERED YEARS

 ** = JR/SR STANDING

GEOGRAPHY & | UVVE

Open only to degree seeking UWL students

Geography GIS Concentration Majors or Minors are not able to obtain this certificate

Geography, Environmental Science, Earth Science and Geoarchaeology Majors may only duplicate 6 GEO credits between the major / minor and this certificate

Upon completion of this program, students must have a minimum cumulative GPA of 2.5 and submit a professional portfolio to the program advisor.

Core Requirements:

| Name | Credits | Description | Prerequisite | Offered |
|---------|---------|--|-------------------|---------|
| GEO 305 | 3 | Geographic Information Systems and Science I | - | F, S |
| GEO 405 | 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 410 | 3 | Geospatial Field Methods | GEO 305 | F |
| GEO 412 | 3 | Geospatial Applications of Unmanned Aerial Systems | GEO 305 | S |
| GEO 415 | 3 | Remote Sensing of the Environment I | GEO 305 | F |
| GEO 418 | 3 | Map Design and Geovisualization | GEO 305 | F |
| GEO 445 | 3 | Remote Sensing of the Environment II | GEO 415 | S |
| GEO 455 | 3 | Web Mapping | GEO 418 | S-Even |
| GEO 465 | 3 | Geospatial Automation | GEO 405 | S-Odd |
| GEO 485 | 3 | Geographic Information System and Science III | GEO 405 | S |
| GEO 488 | 3 | Quantitative Methods in Geography | Geo 305; STAT 145 | S-Odd |

* Students in this certificate are required to take STAT 145.

* 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