

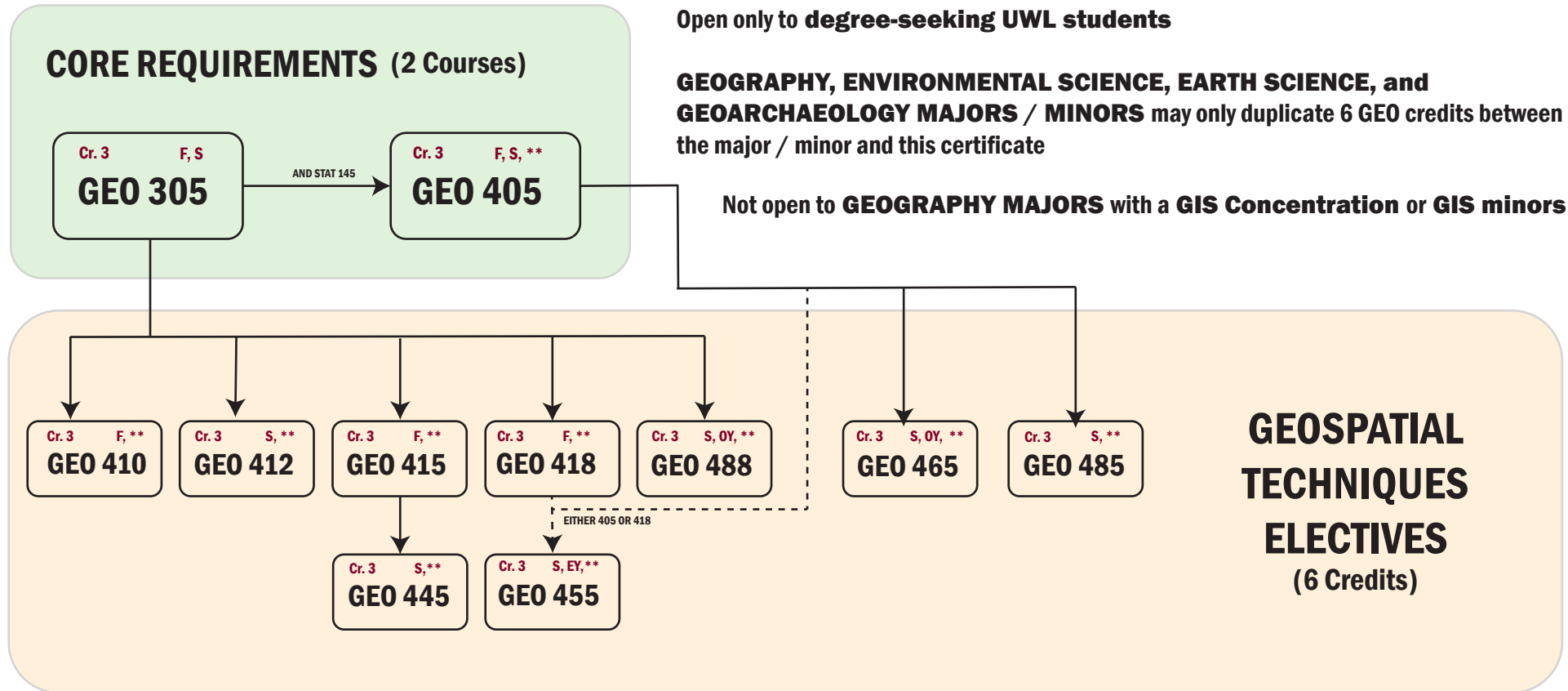
GEOGRAPHY CERTIFICATE: GEOGRAPHIC INFORMATION SCIENCE CONCENTRATION

CORE REQUIREMENTS (2 Courses)

Open only to **degree-seeking UWL students**

GEOGRAPHY, ENVIRONMENTAL SCIENCE, EARTH SCIENCE, and GEOARCHAEOLOGY MAJORS / MINORS may only duplicate 6 GEO credits between the major / minor and this certificate

Not open to **GEOGRAPHY MAJORS** with a **GIS Concentration** or **GIS minors**



PREREQUISITES:

LEGEND:



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

GEOGRAPHY &
ENVIRONMENTAL SCIENCE



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 405 or 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