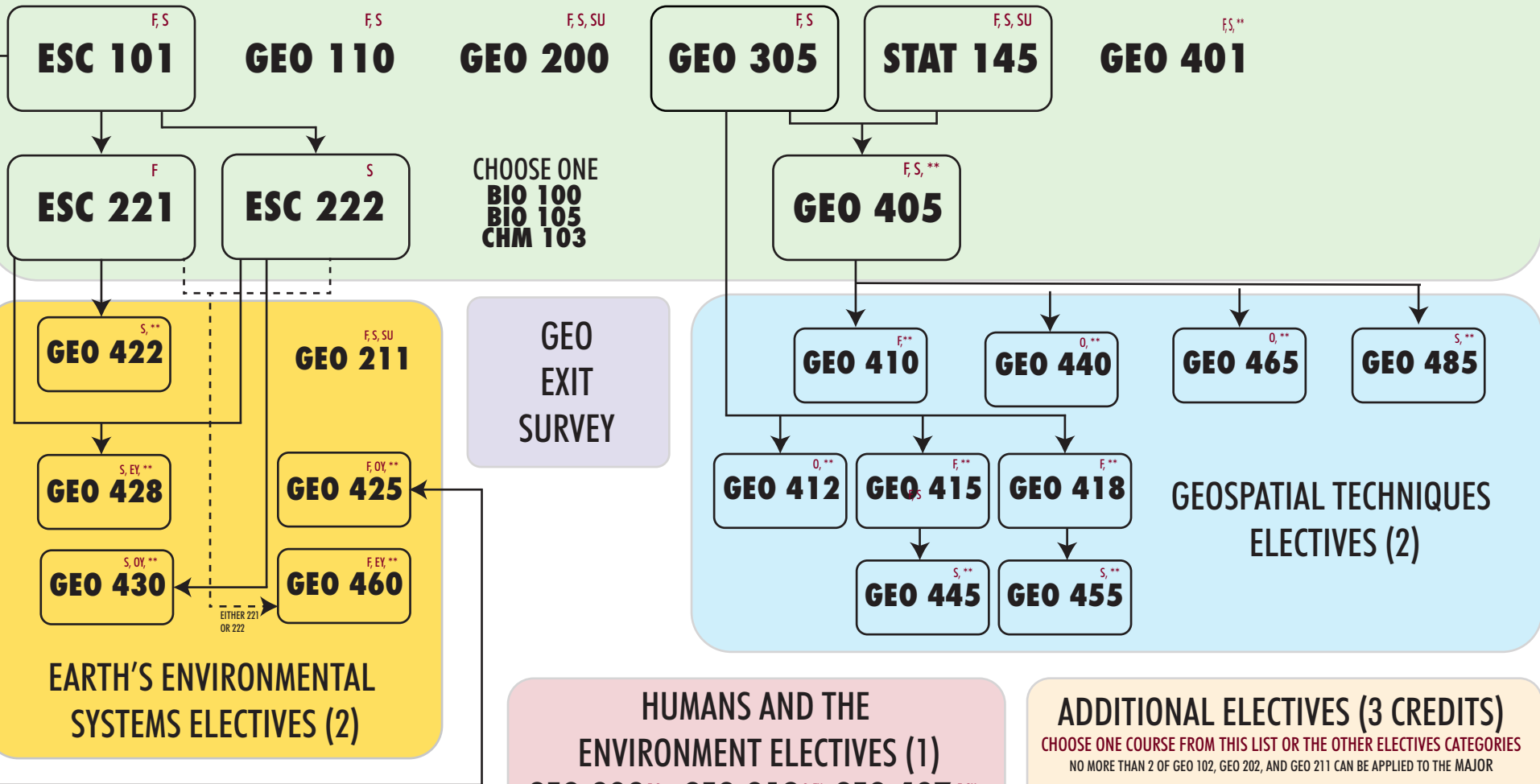


# UW-LA CROSSE GEOGRAPHY & EARTH SCIENCE

## ENVIRONMENTAL SCIENCE CONCENTRATION (B.S./B.A.)

### CORE REQUIREMENTS:



**PREREQUISITES:** → REQUIRED  
 - - - - - MULTIPLE PREREQ OPTIONS

**LEGEND (WHEN OFFERED):**

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

**HUMANS AND THE ENVIRONMENT ELECTIVES (1)**

GEO 202<sup>F,S</sup>   GEO 318<sup>S,EY</sup>   GEO 427<sup>F,OY</sup>  
 GEO 307<sup>F</sup>   GEO 321<sup>S</sup>  
 GEO 309<sup>F,OY</sup>   GEO 335<sup>S,OY</sup>  
 GEO 310<sup>F,EY</sup>   GEO 340<sup>F,EY</sup>

**ADDITIONAL ELECTIVES (3 CREDITS)**

CHOOSE ONE COURSE FROM THIS LIST OR THE OTHER ELECTIVES CATEGORIES  
 NO MORE THAN 2 OF GEO 102, GEO 202, AND GEO 211 CAN BE APPLIED TO THE MAJOR

GEO 102   GEO 470   GEO 495  
 GEO 450   GEO 490   GEO 499

**Geography Major: Environmental Science Concentration (B.S./B.A.)****43 CREDITS****Core Requirements:**

Name	Credits	Description	Prerequisite	Offered
ESC 101	4	Earth Environments	-	F, S
GEO 110	3	World Cultural Regions	-	F, S
GEO 200	3	Conservation of Global Environments	-	F, S, Su
ESC 221	4	Weather and Climate	ESC 101	F
ESC 222	4	Earth Surface Processes and Landforms	ESC 101	S
GEO 305	3	Geographic Information Systems and Science I	-	F, S
STAT 145	4	Elementary Statistics	-	
GEO 401	1	Focus on Geography: A Capstone Course	Senior Standing	F, S
GEO 405	3	Geographic Information System and Science II	GEO 305; STAT 145	F, S
<sup>4</sup> BIO 100 OR	4	Biology for the Informed Citizen	-(for BIO 100)	
<sup>3,4</sup> BIO 105 OR	4	General Biology	-(for BIO 105)	
CHM 103	5	General Chemistry I	"C" or better in MTH 150 (for CHM103)	

**Earth's Environmental Systems Electives (Choose 2 courses)**

Name	Credits	Description	Prerequisite	Offered
<sup>1</sup> GEO 211	3	Global Climate Change	-	F, S, Su
GEO 422	3	Meteorology	ESC 221	S
GEO 425	3	Biogeography	ESC 101	F-Odd
GEO 428	3	Past Environmental Change	ESC 221 and ESC 222	S-Even
GEO 430	3	River Systems	ESC 222	S-Odd
GEO 460	3	Environmental Hazards	ESC 221 or ESC 222	F-Even

**Geospatial Techniques Electives (Choose 2 courses)**

Name	Credits	Description	Prerequisite	Offered
GEO 410	3	Geospatial Field Methods	GEO 405 or concurrent enrollment	F
GEO 412	3	Geospatial Applications of Unmanned Aerial Systems	GEO 305	O
GEO 415	3	Remote Sensing of the Environment	GEO 305	F
GEO 418	3	Map Design and Geovisualization	GEO 305	F
GEO 440	3	Geographic Interpretation of Aerial Photographs	GEO 405	O
GEO 445	3	Remote Sensing of the Environment II	GEO 415	S
GEO 455	3	Web Mapping	GEO 418	S
GEO 465	3	Scripting in GIS	GEO 405	O
GEO 485	3	Geographic Information System and Science III	GEO 405	S

**Humans and the Environment Electives (Choose 1 course)**

Name	Credits	Description	Prerequisite	Offered
<sup>1</sup> GEO 202	3	Contemporary Global Issues	-	F, S
GEO 307	3	Power, Space, and Global Change	-	F
GEO 309	3	Urban Geography	-	F-Odd
GEO 310	3	Transportation Geography	-	F-Even
GEO 318	3	The Geography of Latin America and the Caribbean	-	S-Even
GEO 321	3	Sustainable Development and Conservation	-	S
GEO 335	3	Islamic Asia: Cradle of Civilizations, Geographies of Conflict	-	S-Odd
GEO 340	3	Earth's Polar Regions	-	F-Even
GEO 427	3	Sustainable Water Resource Management	-	F-Odd

**Additional Electives (Choose 3 credits from a category above or from the following)**

Name	Credits	Description	Prerequisite	Offered
<sup>1</sup> GEO 102	3	Maps and Society	-	F, S
<sup>2</sup> GEO 450	1-12	Geography Internship	-	F, S, Su
<sup>2</sup> GEO 470	1-3	Special Topics in Geography/Earth Science	-	O
<sup>2</sup> GEO 490	1-3	Independent Study	-	F, W, S, Su
<sup>2</sup> GEO 495	1-3	Seminar in Geography/Earth Science	-	O
<sup>2</sup> GEO 499	1-3	Undergraduate Research	-	F, W, S, Su

<sup>1</sup> No more than 2 courses from GEO 102, GEO 202, and GEO 211 can be applied to the major.<sup>2</sup> A maximum of 3 credits of GEO 450, GEO 470, GEO 490, GEO 495, and/or GEO 499 may apply to the major.<sup>3</sup> Students cannot earn credit in both BIO 103 and BIO 105<sup>4</sup> Students with credit in BIO 103 or BIO 105 cannot earn credit in BIO 100.

\* During the student's last semester of enrollment, completion of the Department of Geography and Earth Science exit survey is required in order to graduate.

\* 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; A=Annually; AY=Alternate Years.