

Geography: GIScience Concentration

Name:	Semester Admitted to WCU: Major Declared Date:	FOR STUDENTS ADMITTED STARTING AY 2025-2026
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Requirement	Credits	Course	Semester	Grade	Rep/W*
Academic Foundations					
First-Year Experience (FYE 100)	4				
WRT 120 or WRT 123	3				
WRT 200, or 204, or 205, or 206, or 208, or 220	3				
MAT > 103	3				
Diverse Communities (DIV) ¹	3				
Interdisciplinary (INT) ¹	3				
Science Distributives (2 different prefixes) ²	3				
	3				
Behavioral & Social Science (2 different prefixes) ³	3				
	3				
Humanities (2 different prefixes)	3				
	3				
The Arts	3				
Writing Emphasis ⁴	3				
	3				
	GEO 400 - fulfilled in major				
Speaking Emphasis ⁵	3				
	3				
	GEO 400 - fulfilled in major				
Ethics ⁶	3				
Geography Core (24 credits)					
GEO 102 Physical Geography	3				
GEO 103 Human Geography	3				
GEO 225 Maps & Remote Sensing	3				
GEO 230 Environmental Conservation and Sustainability	3				
GEO 324 Introduction to GIS	3				
GEO 326 Geographic Analysis	3				
GEO 385 Field Methods	3				
GEO 400 Senior Seminar in Geography	3				
GIScience Concentration Requirements (12 credits)					
GEO 328 Computer Cartography	3				
GEO 424 GIS Applications	3				
GEO 427 Geodatabase Systems	3				
GIS 316 GIS for Climate Monitoring, Hazards, and Emergency Management	3				
or GEO 401 Internet Mapping					
or GEO 403 Geodesign for Smart Cities					
GIScience Elective Courses (24 credits)					
Elective 1	3				
Elective 2	3				
Elective 3	3				
Elective 4	3				
Elective 5	3				
Elective 6	3				
Elective 7	3				
Elective 8	3				
Capstone (3 credits)					
GEO 404 Senior Project	3				
Other Electives to reach 120 credits (required for all baccalaureate degrees) ⁷	8				

- 1 GEO 204 Recommended
- 2 BIO110, ESS125 or SCI100 Recommended
- 3 PLN 214 Recommended
- 4 GEO 310 Recommended (also PLN 301, ENG 368/ENG 371)
- 5 GEO 332 or GEO 333 Recommended
- 6 GEO 213 Recommended
- 7 Note: The number of available, general electives will depend on the use of "Recommended" General Education GEO/PLN courses. Strategic use of GenEd courses allows for the addition of Minors and/or Sub-Baccalaureate Certificates.

GIScience Elective Course Options (Electives should be selected from the list below; others may be approved by your advisor):

GEO 200 Global Cities
GEO 204 Introduction to Urban Studies
GEO 213 GIS for Social Justice
GEO 235 Geography of Agriculture, Food, and Sustainability
GEO 307 Fundamentals of UAS and Image Analysis
GEO 310 Population Geography
GEO 312 Urban Geography
GEO 316 GIS for Climate Monitoring, Hazards, and Emergency Management
GEO 318 Economic Geography
GEO 325 Introduction to Business GIS
GEO 332 Environmental Crises
GEO 333 Sustainable Cities
GEO 334 Sustainable Living
GEO 338 Environmental Application of GIS
GEO 341 Landscape Ecology
GEO 352 Environmental Geopolitics
GEO 401 Internet Mapping
GEO 403 GeoDesign for Smart Cities
GEO 415 Internship in Geography
GEO 425 Business GIS Applications

PLN 214 Introduction to Planning
PLN 316 Planning for Resilient Communities and Natural Disasters
PLN 320 Land Use Planning
PLN 322 Land Development Controls
PLN 331 Transportation Planning
PLN 336 Environmental Planning
PLN 337: Land Conservation
PLN 354 Geography & Planning of Housing