

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*
<b>Academic Foundations</b>					
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) <sup>1</sup>	3				
Interdisciplinary (INT) <sup>1</sup>	3				
Science Distributives (2 different prefixes) <sup>2</sup>	3				
	3				
Behavioral & Social Science (2 different prefixes) <sup>3</sup>	3				
	3				
Humanities (2 different prefixes)	3				
	3				
The Arts	3				
Writing Emphasis <sup>4</sup>	3				
	3				
	GEO 400 - fulfilled in major				
Speaking Emphasis <sup>5</sup>	3				
	3				
	GEO 400 - fulfilled in major				
Ethics <sup>6</sup>	3				
<b>Geography Core (24 credits)</b>					
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				
<b>GIScience Concentration Requirements (12 credits)</b>					
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					
<b>GIScience Elective Courses (24 credits)</b>					
Elective 1	3				
Elective 2	3				
Elective 3	3				
Elective 4	3				
Elective 5	3				
Elective 6	3				
Elective 7	3				
Elective 8	3				
<b>Capstone (3 credits)</b>					
GEO 404 Senior Project	3				
<b>Other Electives to reach 120 credits (required for all baccalaureate degrees) <sup>7</sup></b>	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