

B.S. IN GEOGRAPHY - ENVIRONMENTAL GEOGRAPHY CONCENTRATION

Curriculum

Code	Title	Credits
GENERAL EDUCATION REQUIREMENTS (https://catalog.wcupa.edu/undergraduate/general-education-requirements/)		
Academic Foundations		
First Year Experience requirement		4
English Composition requirement		6-7
Mathematics requirement		3-4
Interdisciplinary requirement ¹		3
Diverse Communities requirement ¹		3
Ethics requirement ²		3
Distributed Disciplinary Foundations		
Science requirement ³		6-8
Behavioral & Social Science requirement ⁴		6
Humanities requirement		6
Arts requirement		3
ADDITIONAL BACCALAUREATE REQUIREMENTS (https://catalog.wcupa.edu/undergraduate/general-education-requirements/)		
University Requirements		
Writing Emphasis requirement ⁵		9
GEO 400	Senior Seminar In Geography	
Speaking Emphasis requirement ⁶		9
GEO 400	Senior Seminar In Geography	
Degree Requirements		
Capstone requirement		1-15
MAJOR REQUIREMENTS (https://www.wcupa.edu/business-publicManagement/geographyPlanning/)		
Core Courses		
GEO 102	Physical Geography	3
GEO 103	Human Geography	3
GEO 225	Introduction to Maps and Remote Sensing	3
GEO 230	Environmental Conservation and Sustainability	3
GEO 324	Intro to Geographic Information Systems	3
GEO 326	Quantitative Analysis in Geography and Planning	3
GEO 385	Field Methods in Geography	3
GEO 400	Senior Seminar In Geography	3
Environmental Geography Concentration Required Courses		
GEO 332	Environmental Crises	3
GEO 338	Environmental Application of Geographic Information Systems (GIS)	3
GEO 341	Landscape Ecology	3
PLN 336	Environmental Planning	3
Geography (or Planning) Electives		
Choose 8 courses from the list of electives (or through advisement)		24

GEO 200	Global Cities
GEO 204	Introduction to Urban Studies
GEO 213	GIS for Social Justice
GEO 235	Geography of Agriculture, Food & Sustainability
GEO 307	Fundamentals of Unmanned Aerial Systems 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	Intro Business GIS
GEO 333	Sustainable Cities
GEO 334	Sustainable Living
GEO 352	Environmental Geopolitics
GEO 401	Internet Mapping
GEO 403	Geodesign for Smart Cities
GEO 415	Internship in Geography and Planning
GEO 424	Geographic Information Systems Application
GEO 425	Business GIS Applications
GEO 427	Geodatabase System
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 337	Land Conservation
PLN 354	Housing and Planning in America

Capstone Requirement

GEO 404	Senior Project in Geography ⁷	3
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Total Minimum Credits Required ⁸ **120**

¹ GEO 204 is a recommended general education course: fulfills Interdisciplinary and Diverse Communities General Education requirements. Transfer and change-of-major students may use other courses with advisor consent.

² GEO 213 is a recommended Ethics General Education course. Transfer and change-of-major students may use other courses with advisor consent.

³ Recommended sciences: BIO 110, ESS 128, or SCI 100

⁴ Geography majors take PLN 214 as a recommended Behavioral/Social Science General Education course. Transfer and change-of-major students may use other courses with advisor consent.

⁵ Geography majors must take GEO 400 (Writing Emphasis course). GEO 310 is a recommended Writing Emphasis course. PLN 301 and ENG 368/ENG 371 are recommended Writing Emphasis electives.

⁶ Geography majors must take GEO 400 (Speaking Emphasis course). GEO 332 is a required course for the Environmental Studies Track and recommended for all other tracks. GEO 333 is also recommended.

⁷ This course fulfills the Capstone requirement.

⁸ Note: The number of available general electives will depend on the use of "recommended" general education GEO/PLN courses. Strategic use of general education courses allows for the addition of minors and/or sub-baccalaureate certificates.

Accelerated B.S. in Geography - Environmental Geography Concentration to M.S. in Geography Program

Any geography major in the Environmental Geography Track with junior-standing (a minimum of 60 completed credits) and a 3.0 cumulative GPA or higher may substitute up to 12 graduate credits to satisfy the B.S. program.

Code	Title	Credits
Elective Courses		
Select from the courses below:		
GEO 502	Topical Seminar in Geography	3
GEO 506	Seminar in Physical Geography	3
GEO 507	Internet Applications of Geographic Information Systems	3
GEO 521	Suburbanization and Land Development	3
GEO 524	Population Processes	3
GEO 526	Metropolitan Systems and Problems	3
GEO 531	Transportation Planning	3
GEO 538	Environmental Modeling with Geographic Information Systems	3
GEO 577	Geodatabases	3
PLN 527	Planning Law and Organization	3
PLN 528	Economic Development Planning	3
PLN 536	Environmental Planning	3
PLN 554	Housing and Planning in America	3
Potential Graduate Course Substitutions		
These courses may be substituted for similar undergraduate courses.		
GEO 534 can replace GEO 324		
GEO 507 can replace GEO 401		
GEO 509 can replace GEO 326		
GEO 538 can replace GEO 338		
GEO 556 can replace GEO 425		
GEO 577 can replace GEO 427		
GEO 584 can replace GEO 424		
GEO 585 can replace GEO 385		