

B.S. IN GEOGRAPHY - BUSINESS 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
Business Concentration		
GEO 312	Urban Geography	3
GEO 318	Economic Geography	3
GEO 325	Intro Business GIS	3
GEO 425	Business GIS Applications	3
Electives		
	Choose 8 courses from the list of electives (or through advisement)	24
	GEO 104 Introduction to Geospatial Technology and Analytics	
	GEO 200 Global Cities	
	GEO 204 Introduction to Urban Studies	
	GEO 213 GIS for Social Justice	

GEO 235	Geography of Agriculture, Food & Sustainability
GEO 236	Global Climate Change: Causes/Consequences
GEO 307	Fundamentals of Unmanned Aerial Systems and Image Analysis
GEO 310	Population Geography
GEO 316	GIS for Climate Monitoring, Hazards, and Emergency Management
GEO 328	Computer Cartography
GEO 332	Environmental Crises
GEO 333	Sustainable Cities
GEO 334	Sustainable Living
GEO 338	Environmental Application of Geographic Information Systems (GIS)
GEO 341	Landscape Ecology
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 427	Geodatabase System
PLN 201	Real Estate Fundamentals
PLN 202	Real Estate Practice
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 324	Real Estate Development Fundamentals
PLN 328	Real Estate Law and Practice
PLN 331	Transportation Planning
PLN 336	Environmental Planning
PLN 337	Land Conservation
PLN 354	Housing and Planning in America
BUA 330	Automation of Data Workflows and Analytics
ECO 111	Principles of Economics (Macro)
ECO 112	Principles of Economics (Micro)
ECO 251	Business Analytics I
ECO 334	Labor Economics
ECO 338	International Economics
ECO 350	Urban Economics
ECO 351	Business Analytics II
ECO 385	Environmental & Resource Economics
INB 300	Introduction to International Business
MIS 300	Introduction to Management Information Systems
MIS 302	Data Analytics
MGT 200	Principles of Management
MGT 313	Business and Society
MGT 341	Production and Operations Management
MKT 250	Principles of Marketing

MKT 330	Consumer Behavior	
MKT 345	Sales Management and Forecasting	
MKT 360	Marketing Research	
MKT 365	Marketing Analytics	
MKT 368	Customer Database Management	
SCM 351	Supply Chain Management	
SCM 361	Principles of Project Management	
SCM 371	Logistics Management	
Capstone Requirement		
GEO 404	Senior Project in Geography ⁷	3
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 Recommended Behavioral/Social Science General Education courses include ECO 111, ECO 112, and PLN 214. 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, GEO 352, PLN 301 and ENG 368/ENG 371 are recommended Writing Emphasis courses.

⁶ Geography majors must take GEO 400 (Speaking Emphasis course). GEO 332, GEO 333, and PLN 214 are 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.

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

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

Any B.S. in Geography - Business Concentration major with a 3.0 or higher cumulative GPA who has completed at least 60 credits can apply to the Accelerated B.S. in Geography - Business Concentration to M.S. in Geography program. Accepted students may substitute up to 12 graduate credits of graduate coursework from the M.S. Geography program to satisfy course requirements for the B.S. in Geography - Business Concentration. These credits will also apply toward the M.S. in Geography 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