Geography with Geographic Information Systems (GIS) Specialization, BA Major (2024 – 2025)
Geography Specialization in (GIS) - Total Semester Hours: 30

Required Courses – Total Semester Hours: 15

GEOG	001	(BH)	Global Environments and Cultures	**OR**	GEOG	002	(BH)	People, Place and Power
GEOG	060		Introduction to Digital Mapping		GEOG	170		Advanced GIS
GEOG	160		Intermediate GIS		GEOG	191		Seminar: Geographic Methodology

Minimum of 3 s.h. of applied GIS electives chosen from:

GEOG	159	(IS)	Creating Digital Maps	GEOG	162	(IS)	Geospatial Remote Sensing
GEOG	161		GIS for the Natural Sciences	GEOG	190		Internship in Geography

Minimum of 6 s.h. of geography electives chosen from:

GEOG	001	(BH)	Global Environments and Cultures	GEOG	104 A-Z		Special Topics in Geography
GEOG	002	(BH)	People, Place and Power	GEOG	106	(BH, CC)	Urbanization in the Developing World
GEOG	003		Geography of a Globalizing World (credit for GEOG 003 or GS 001, not both)	GEOG	115	(CC, IS)	Global Health Geography (credit for GEOG 115 or GS 115, not both)
GEOG	005	(BH)	Population and Migration Geography	GEOG	135	(BH)	Economic Geography
GEOG	006	(BH)	Resources and Energy Geography	GEOG	151		Undergraduate Research in Geography
GEOG	014F/S		First-Year Seminar	GEOG	152		Undergraduate Research in Geography
GEOG	080	(BH)	Global Transportation and Logistics (credit for GEOG 080 or GS 120, not both	GEOG	180		Field Studies in Geography
				GEOG	190		Internship in Geography
GEOG	100		Departmental Honors Candidacy: Essay	GS	001	(IS)	Intro to Global Studies (credit for GS 001 or GEOG 003, not both)
GEOG	102	(BH)	Population, Resources and Environment	GS	120	(IS)	Global Transportation and Logistics (credit for GEOG 080 or GS 120, not both
GEOG	103	(BH)	Cities and Suburbs				

Minimum of 6 s.h. of electives chosen from:

BIO	142		Urban Habitats	GS	120	(IS)	Global Transportation and Logistics (credit for GEOG 080 or GS 120, not both
BIO	136		General Ecology	GEOL	001	(NS)	Planet Earth
CSC	015	(CS)	Computer Sci I: Problem Solving and Program Design	GEOL	005	(NS)	Environmental Geology
CSC	016	(CS)	Computer Sci II: Data Structures, Algorithms & Obj-Oriented Progr.	GEOL	015	(NS)	Global Climate Change
CSC	120		Algorithms and Data Structures	GEOL	033		Environmental Geomorphology
CSC	170		Principles of Database Management	GEOL	104 A-Z		Special Topics in Geosciences
ECO	010	(BH)	Economics, Environment and Community	GEOL	125		Geohazards
ECO	165		Urban and Regional Economics	IT	030		Web Development and Analytics for Business
ENGG	010		Computational Methods in Engineering	IT	031		Data-driven Web Application Development
ENGG	047		Environmental Engineering	IT	076		Introduction to E-Commerce
ENGG	060		Water Quality for Environmental Engineers	IT	117		Database Management Systems
ENGG	110		Project Management	JRNL	055		Design and Visual Strategies
ENGG	112		Engineering Drawing	JRNL	056		Desktop Publishing
ENGG	120		Transportation Engineering I	JRNL	057		Web and Publication Design for Journalists
GEOG	001	(BH)	Global Environments and Cultures	JRNL	059		Information Design
GEOG	002	(BH)	People, Place and Power	JRNL	071		Health, Science and Environmental Reporting
GEOG	003	(BH)	Geography of a Globalizing World (credit for GEOG 003 or GS 001, not both)	JRNL	083		Data Journalism
GEOG	005	(BH)	Population and Migration Geography	METR	001-002		Physical Meteorology and Climatology
GEOG	007		Fun with Maps and GIS	METR	016	(NS)	Fundamentals of Weather and Climate
GEOG	006	(BH)	Resources and Energy Geography	METR	125		Weather Forecasting
GEOG	014F/S		First-Year Seminar	MASS	110		Media and Urban and Suburban Communication
GEOG	080	(BH)	Global Transportation and Logistics (credit for GEOG 080 or GS 120, not both)	MASS	130		Social Media, Technologies and Policy
GEOG	102	(BH)	Population, Resources and the Environment	MKT	144		Marketing Research and Analytics
GEOG	103	(BH)	Cities and Suburbs	MKT	172		Export/Import Marketing
GEOG	106	(BH, CC)	Urbanization in the Developing World	PHI	101	(HP)	Ecology and Environmentalism
GEOG	115	(CC, IS)	Global Health Geography (credit for GEOG 115 or GS 115, not both)	PHI	133	(HP)	Ethics and the Natural Environment
GEOG	135	(BH)	Economic Geography	PHI	138	(HP)	Ethics and Sustainability: Personal, Social & Corporate Responsibility
GEOG	151-152		Undergraduate Research in Geography	SBLY	002	(IS)	Sustainability Planning and Policy
GEOG	159	(IS)	Creating Digital Maps	SBLY	001	(IS)	Our Sustainable World
GEOG	161		Geographic Information Systems (GIS) for the Natural Sciences	SBLY	140		Energy and Sustainability
GEOG	162	(IS)	Geospatial Remote Sensing	SOC	141	(BH)	Urban America
GEOG	193		Seminar: Economic Geography	SOC	147	(BH)	World Population
GS	001	(IS)	Introduction to Global Studies (credit for GS 001 or GEOG 003, not both)	SOC	180		Statistics in Sociology
GS	002	(CC, IS)	Cultural Globalization				

Geography with (GIS) Specialization, BA Major (2024 – 2025)

Depending on approved topic, up to 3 s.h. of internships can be counted

GEOG	190	Internship in Geography	GS	190	Internship in Global Studies

Grade/Residency Requirement

- A grade of C- or better is required in each course.
- At least 15 sh must be in residence
- At least 12 sh of completed courses must be at 100-level

Distribution courses that count toward the BA in Geography with (GIS) Specialization

Computer Science Distribution (CS)

CSC	015	(CS)	Computer Science I: Problem Solving and Program Design	CSC	016	(CS)	Computer Sci II: Data Structures, Algorithms & Object-Oriented Prg.

Natural Science Distribution (NS)

GEOL	001	(NS)	Planet Earth	GEOL	015	(NS)	Global Climate Change
GEOL	005	(NS)	Environmental Geology	METR	016	(NS)	Fundamentals of Weather and Climate

Behavioral Social Science Distribution (BH)

ECO	010	(BH)	Economics, Environment and Community	GEOG	103	(BH)	Cities and Suburbs
GEOG	001 or 002	(BH)	World Regional Geography or Human Geography	GEOG	106	(BH, CC)	Urbanization in the Developing World
GEOG	005	(BH)	Population and Migration Geography	GEOG	135	(BH)	Economic Geography
GEOG	006	(BH)	Resources and Energy Geography	GEOG	148	(BH)	Geography of Australia and the South Pacific
GEOG	080	(BH)	Transport Geography (credit for GEOG 080 or GS 120, not both)	SOC	141	(BH)	Urban America
GEOG	102	(BH)	Population, Resources and Environment	SOC	147	(BH)	World Population

Computer Science Distribution (CS)

CSC	015	(CS)	Computer Science I: Problem Solving and Program Design	CSC	016	(CS)	Computer Sci II: Data Structures, Algorithms & Object-Oriented Program

Cross Cultural Distribution (CC)

GEOG	106	(BH, CC)	Urbanization in the Developing World	GS	002	(CC, IS)	Cultural Globalization
GEOG	115	(CC, IS)	Global Health Geography (credit for GEOG 115 or GS 115, not both)				

History, Philosophy, Religion Distribution (HP)

PHI	101	(HP)	Ecology and Environmentalism	PHI	138	(HP)	Ethics and Sustainability: Personal, Social and Corporate Responsibility
PHI	133	(HP)	Ethics and the Natural Environment				

Interdisciplinary Studies (IS)

GEOG	115	(CC, IS)	Global Health Geography (credit for GEOG 115 or GS 115, not both)	GS	002	(CC, IS)	Cultural Globalization
GEOG	159	(IS)	Creating Digital Maps	GS	120	(IS)	Global Transportation and Logistics (credit for GEOG 080 or GS 120, not both)
GEOG	162	(IS)	Geospatial Remote Sensing	SBLY	001	(IS)	Our Sustainable World
GS	001	(IS)	Introduction to Global Studies (credit for GS 001 or GEOG 003, not both)	SBLY	002	(IS)	Sustainability Planning and Policy

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