GEOGRAPHY

Faculty

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Geographers are devoted to thinking spatially about people, environments and relations among them. Human geography focuses on the cultural/social, economic and political processes that create and reproduce the built environments and social worlds in which we live. Environmental geography lies at the intersection of the physical and human worlds, studying topics such as resources, hazards and environmental impacts. Physical geography, a natural science, focuses on the natural processes that interact to create the biophysical environments we depend upon. What links these disparate foci is an overriding concern with *space* and the various ways in which it matters.

Geography courses promote a fuller understanding of the world in which we live by connecting our immediate, local surroundings to the global, where students develop critical thinking as well as contextual analysis skills, problem-solving, writing, researching, mapping, public speaking, information literacy and teamwork abilities. Students are also exposed to a range of methods from ethnography and archival research, to field and laboratory work; and using technologies such as Geographic Information Systems and Remote Sensing, thereby developing strong research and technical skills.

The geography major at Bucknell provides a strong background in the discipline while building a substantial foundation for a liberal arts education. Geography's inherently interdisciplinary nature complements and integrates material from related fields, such as environmental studies, international relations, economics, history, women's & gender studies, political science, geology, anthropology, sociology, climatology, philosophy and biology, making it an ideal choice for dual majors or as a minor. The geography major (or minor) provides strong preparation for careers or graduate study in the environmental and resource fields, international affairs, urban and regional planning, non-profits, government, business and marketing, journalism, law, health care, public service, teaching and a host of other fields.

Geography Major

The **major** in geography consists of a minimum of EIGHT courses which must include:

Two 200-level Human Geography courses (social science credit)		2
Two Environmental Geography courses (natural science credit) [1]		2
GEOG 204	Applied G.I.S.	1
Culminating Experience [2]		1
Two Geography electives [3]		2

1. This includes courses centered on the physical environment and human-environment relations. Some courses in other departments are accepted toward the major with geography department approval, for example geology, biology, and environmental studies & sciences.
2. Taken senior year (or second semester junior year with adviser and departmental approval). Courses fulfilling this requirement include 300-level or higher (non-methods/skills) geography courses or an independent study course designed for this purpose. In these courses, paper and/or project topics for the geography majors will be designed to ensure that the students draw upon their broader geographic education, thus providing them a more coherent appreciation of the discipline.
3. May be any 200-level or higher geography course, but may include up to two 100-level geography courses taken before declaring the major.

Geography Minor

The geography **minor** consists of five geography courses, at least one of which is a geography science course, and no more than one of which may be at the 100 level.

Majors in Geography will be able to:

1. Understand human-environment relations and spatial relations as a dynamic involving the interplay of social change and environmental change. (1, 3, 4, 6, 7)
2. Apprehend their role, both individually and collectively, in changing human-environmental relations and spatial dimensions of society. (1, 3, 4, 5)
3. Use space and spatial relations to understand society at different scales. (1, 3, 4)
4. Understand academic geographical study as providing a systematic framework for examining environmental and social problems. (1, 3, 4)

5. Engage in high-order, independent thinking, integrating spatial and human-environment relations into their analysis of problems at scales ranging from the global to the local. (1, 3, 4, 6, 7)
6. Synthesize insights in human and physical geography with those from cognate disciplines in social and/or natural sciences. (1, 2, 3)

Numbers in parentheses reflect related Educational Goals of Bucknell University.

Courses

GEOG 101. Globalization, People, and Place. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Investigates the world from a spatial perspective to understand the complexity of places and the dynamic relationship between peoples and the world they inhabit. Open to first-years and sophomores.

GEOG 113. Human Impact on Environment. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Causes and effects of major environmental changes induced by humans, challenges to our future well-being, and opportunities for future sustainability. Prerequisite: open to first-year students only. Crosslisted as ENST 113.

GEOG 201. Special Topics in Geography. 1 Credit.
Topics course,Offered Fall, Spring or Summer; Lecture hours:3; Repeatable
Topics related to current events/issues in Geography.

GEOG 204. Applied G.I.S.. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Introduction to the use of Geographical Information Systems to collect, structure, and display large or complex spatial data sets, using examples from human and physical geography.

GEOG 205. Remote Sensing. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Introduction to satellite data acquisition, processing and extraction of information to understand complex environmental, geological and biological phenomena as well as the interactions between these phenomena.

GEOG 206. Mapping History: Nature, Place, and Power. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course examines maps as markers of environmental history. Focusing on the North Atlantic and North America from the seventeenth century onward, the course will emphasize critical analysis of visual artifacts, the politics of cartography, and maps as records of our changing ideas about and impact on the natural world. Crosslisted as ENST 214 and HIST 215.

GEOG 207. Urban Geography. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course takes a critical, spatial approach to understanding cities. Urban geography attends to cities as processes, with a focus on the global forces that drive urbanization, development, urbanism and planning. The course explores the forces that create cities and cities as a force with an attention on urban legacies, urban inequality, segregation, and marginalization.

GEOG 208. Latina Feminisms US. 1 Credit.
Offered Occasionally; Lecture hours:3
This course examines the various experiences, perspectives and expressions of Latinas in the United States, which vary according to gender, sexuality, race, citizenship, region and language. Crosslisted as LAMS 218 and WMST 218.

GEOG 209. Economic Geography. 1 Credit.
Offered Both Fall and Spring; Lecture hours:3
Inquiry into local and global changes in economic activity, location and spatial organization, especially focusing on implications for the well-being of people in particular places. Crosslisted as ECON 209.

GEOG 211. Geopolitics & Political Geography. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Considers political processes from a geographical perspective across a range of scales, in particular analyzing the geographical arguments which shape international political relations. Crosslisted as IREL 211.

GEOG 215. Environmental Planning. 1 Credit.
Offered Spring Semester Only; Lecture hours:3
Explores the main approaches to planning theory and their environmental applications. Considers how environmental planning can promote the socio-ecological health and sustainability of democratic communities. Crosslisted as ENST 215.

GEOG 216. Borders and Politics of Mobility. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Explores the politics of contemporary nation state borders, issues of territory, sovereignty, mobility, migration, identity, citizenship, statelessness, and focuses on borders at other scales. Crosslisted as IREL 216.

GEOG 220. Cultural Geography. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Role of culture in shaping places. How cultures are geographically expressed, and how geography is a basic element in the constitution of cultures. Prerequisite: permission of the instructor.

GEOG 227. Geographies of Uneven Development. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
In this course, we will build a critical understanding of the nature and processes of development in the global south countries while exploring the role of colonialism, imperialism and capitalism. Includes topics such as global political-economic change, population growth, human capital, microfinance, food politics and gender inequality. Crosslisted as ECON 217.

GEOG 234. Human Ecology. 1 Credit.
Offered Alternating Spring Semester; Lecture hours:3
A general science course in human ecology, to demonstrate the ways humans continue to adapt to their environment through biological, cultural, scientific, symbolic, political, and technical means. Crosslisted as ENST 234.

GEOG 235. Marine Environment. 1 Credit.
Lecture hours:3
Understanding the ecological and physical systems of the ocean, understanding the processes of scientific discovery in the ocean, and exploring the many interactions that humans have with ocean systems. Crosslisted as ENST 235.

GEOG 239. Popular Music, Identity, and the Politics of Place. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course utilizes popular music as a means of thinking geographically about people and their connections to place, but also people's interconnections with different places over time. Through different case studies, students will also consider the power of popular music to transform place, to challenge and overcome social divisions.

GEOG 240. Sustaining Nature. 1 Credit.
Offered Fall Semester Only; Lecture hours:3
Critically explores contemporary and historical processes of human manipulation and conservation of nature. How do humans consume, transform, protect, and restore nature globally in relation to interrelated crises of inequality, biodiversity loss and climate change? Crosslisted as ENST 240.

GEOG 241. Environmental Health & Climate. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course examines the connection between human-induced climate change, environmental exposures, and health. We will situate climate/environmentally related health problems within social contexts by attending to everyday biological, physical, and chemical agents of the environment. Crosslisted as ENST 241.

GEOG 242. Qualitative, Creative & Arts-Based Spatial Methods. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course will introduce students to the range of qualitative spatial, arts-based, creative and visual methods in geography. Students will learn GIS and qualitative mapping, visual field notes and other tools that amplify deep understandings of lived experience.

GEOG 243. Placing the Past. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Through the integration and utilization of geographical and historical thinking, this course encourages students to explore forgotten, marginalized, and occluded moments in place and time, from the perspective of considering their potential significance and usefulness in the contemporary period. Crosslisted as HIST 243 and UNIV 243.

GEOG 246. Gender, Race & Citizenship. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Explores the complicated relationship between citizenship and race within the United States, examining citizenship and belonging through the lens of feminist scholarship, critical race theory, human geography, postcolonial theory, queer theory and critical ethnic studies. Crosslisted as WMST 246.

GEOG 251. Environmental Issues in Indigenous Places. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course examines the values, politics and power relations that allow for the exploitation and conservation of nature in specific geographies. We will explore environmental and social justice issues emerging from such practices in Indigenous geographies and their intersection with those in Black and other minoritized geographies across the globe. Crosslisted as ENST 251.

GEOG 257. Climate Change. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
Understanding, the global climate system, how it has changed in the past, how it is changing now in response to human activities, predicted future changes, and our options for mitigating and adapting to them.

GEOG 258. The Human Planet. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
How humanity became an environmental force dictating the future of life on Earth and implications of that fact for individual and societal choices and actions, and the future prospects for humanity and our fellow species in an Anthropocene world.

GEOG 301. Topics in Advanced Physical Geography. 1 Credit.
Offered Either Fall or Spring,Topics course; Lecture hours:3,Lab:4
Specialized topics in physical geography. Prerequisite: permission of the instructor.

GEOG 305. Gender, Environment & Health. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course explores how gender (intersecting with other identities) shapes interactions with the environment and related health outcomes. We will attend to multiple forms of power structures that enable and constrain possibilities of well-being. Crosslisted as ENST 305 and WMST 305.

GEOG 306. Geographies of Infrastructure. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course will examine how infrastructure is used as a tool to structure everyday life in highly uneven ways in varied social settings across the globe. The way infrastructure is planned and organized reflects upon the hierarchical power relations embedded in a place which we will uncover and challenge.

GEOG 308. Topics in Advanced Environmental Geography. 1 Credit.
Offered Either Fall or Spring,Topics course; Lecture hours:3; Repeatable
Specialized topics in environmental geography.

GEOG 309. Topics in Advanced Economic Geography. 1 Credit.
Offered Either Fall or Spring,Topics course; Lecture hours:3; Repeatable
Specialized topics in economic geography.

GEOG 316. Geographies of Nationalism. 1 Credit.
Lecture hours:3
The course explores nationalism and its increasing popularity by considering it geographically; for example, its dynamic scalar dimensions, its forging of race and gender spatially, and its naturalization in landscape and built form. In so doing, we will critically consider those interests that nationalism serves. Crosslisted as WMST 316.

GEOG 317. Carceral Landscapes: Understanding Geographies of Punishment, Policing and Detention. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
This course will examine how power systems of control and confinement reverberate to reshape society and space. This course will investigate the cultural landscape produced by drives to punish and confine populations, especially drives based on race, gender presentation, and citizenship status. Crosslisted as WMST 317.

GEOG 318. Geographies of Justice, Globalization and Sustainability. 1 Credit.
Offered Occasionally; Lecture hours:3; Repeatable
Explores social, economic and environmental issues surrounding globalization and focuses on the role of space for questions of justice, sustainability and social change. Drawing on scholarship in geography and cognate disciplines, students examine how social structures privileging dominant groups produce spatial inequality and marginality across global North and South countries.

GEOG 319. Undergraduate Research. .5-1 Credits.
Offered Both Fall and Spring,Topics course; Lecture hours:Varies; Repeatable
Supervised research, readings, and/or preparation of a paper on some aspect of geography. Prerequisite: permission of the instructor.

GEOG 320. Undergraduate Research. .5-1 Credits.
Offered Both Fall and Spring,Topics course; Lecture hours:Varies; Repeatable
Supervised research, readings, and/or preparation of a paper on some aspect of geography. Prerequisite: permission of the instructor.

GEOG 321. Special Topics in Geography. 1 Credit.
Offered Both Fall and Spring,Topics course; Lecture hours:3; Repeatable
Development and growth of geographic thought; investigation, report and/or seminar on currently significant topics in geography. Prerequisite: permission of the instructor.

GEOG 322. Special Topics in Geography. 1 Credit.
Offered Both Fall and Spring,Topics course; Lecture hours:3; Repeatable
Development and growth of geographic thought; investigation, report and/or seminar on currently significant topics in geography. Prerequisite: permission of the instructor. Crosslisted as GEOG 622.

GEOG 324. Geographies of Identity. 1 Credit.
Offered Occasionally; Lecture hours:3
Who are "we"? Seminar considers role of space in constituting society around the world. Explores nationalism, globalization, multiculturalism, citizenship, race, ethnicity, gender, sexuality, age, disability. Prerequisite: first-year students by permission only. Crosslisted as WMST 324.

GEOG 325. Nature, Wealth and Power. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
A seminar in political ecology that explores the historical, social political and economic dimensions of environmental change in developing regions. First-year students and sophomores by permission only. Crosslisted as ENST 325.

GEOG 326. Thinking Space: Critical Reflections on Research. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
With an eye toward research design, proposal and grant writing, students will critically engage the role of the University in imagining, creating and understanding place. Students will think about space, how to study it, and, in turn, how studying space produces it.

GEOG 333. Knowing the Forest. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3,Other:2
An immersive field-based course focused on understanding the environment from multiple perspectives including the natural/social sciences, the arts and the humanities. Class sessions will take place outdoors in nearby forests (lecture + common hour + picnic lunch; most will end ~2:00 pm).

GEOG 345. Food and the Environment. 1 Credit.
Offered Fall Semester Only; Lecture hours:3
Nothing from the environment is more important than food production, nothing affects the environment more; we'll study both environmental and social circumstances. Crosslisted as ENST 345.

GEOG 420. Environmental Community Projects. 1 Credit.
Offered Either Fall or Spring,Topics course; Lecture hours:3
Community-based "clinic" course on environmental problems or projects for local stakeholders, based on integrative, interdisciplinary research and design. Preference to senior ENST, ENSC, and GEOG majors.

GEOG 421. Research & Practice for Geographers. 1 Credit.
Offered Either Fall or Spring; Lecture hours:3
A praxis course for students majoring/minoring in Geography or pursuing a GIS-E certificate. Students work on a client based independent study, learning about and preparing for post-baccalaureate work in geography including career development and applying for graduate school. Prerequisites: ENST 302 or GEOG 204 or GEOG 205 or GEOG 242 or GEOL 311, or with instructor permission.