

Sample Suggested Pathways

- Dual Pathways are acceptable - sharing advanced sequence and methods, no other double-counting allowed
- A maximum of 3 courses outside GEOG are permissible in the pathways + advanced sequence

Climate Science is the scientific study of atmospheric processes occurring over a period of time. This modern field of study is regarded as a subfield of physical geography and a branch of the atmospheric sciences.

Climate Science (at least 18 credit hours)

GEOG327: Climatology

GEOG329: Global Climate Change

GEOG336: Environmental Hazards: A Focus on SE Asia

BIO354: Global Climate Change and Life

ANTH307: Climate, Culture and Change

GEOL320: Meteorology

ISAT425: Environmental Hydrology

GEOG470: Seminar in Geography (Atmospheric Science)

GEOG485: Processing RS Data

GEOG429: Sustainability: An Ecological Perspective

GEOG415: Environment, Landscape & Culture

GEOG427: Water Resources

GEOG350: Topics in Geography (relevant topic)

Methods

GEOG385: Principles of Remote Sensing

Adv Sequence

GEOG490 (6) in a climate science focused research project

GEOG495/GEOG497/GEOG470

Recommended Majors/Minors

Mathematics, Computational Sciences Concentration (B.A. or B.S.), Mathematics (Minor), Statistics (B.S. or Minor), Environmental Science (Minor)

Climate Affairs leverages the interdisciplinary nature of geography to holistically analyze the complex controls, risks, and vulnerability humans have created through anthropogenic climate change.

Climate Affairs (at least 18 credit hours)

GEOG327: Climatology

GEOG329: Global Climate Change

GEOG336: Environmental Hazards: A Focus on SE Asia

GEOG325: Environmental Ethics

GEOG350: Topics in Geography (relevant topic)

GEOG375: Political Geography

ANTH307: Climate, Culture and Change

GEOL320: Meteorology

GEOG429: Sustainability: An Ecological Perspective

GEOG415: Environment, Landscape & Culture

GEOG427: Water Resources

ISAT474: Political Ecology

JUST357: Environmental Justice (prereq: JUST200 + 1 other JUST200-level)

Methods

GEOG365: Cartography; GEOG385: Principles of Remote Sensing; SCOM354:
Environmental Communication and Advocacy

Adv Sequence

GEOG410: Geography & Film; GEOG470: Senior Seminar in ECSD (relevant topic)

GEOG490 (6) in a climate issues focused research project

Recommended Majors/Minors

Environmental Humanities, Environmental Studies, Justice Studies

Creative Expressions of Place explores the geographical concept of space and place through film, articles, fiction, poetry, essays, maps, photographs, and art. Place can be a catalytic agent for change by affecting the connections that are made in our globalized world. It is the embodiment of place within art that can produce the same sense of empowerment and general creative potential that we identify with in situations like standing on the top of a hill soaking up the view or being emotionally moved by a powerfully directed film or other art form.

Creative Expressions of Place (at least 18 credit hours)

GEOG305: History and Philosophy of Geography

GEOG334: Geography of East and SE Asia

GEOG350: Topics in Geography (relevant topic)

GEOG375: Political Geography

GEOG380: Cultural Geography

GEOG410: Geography & Film

GEOG470: Senior Seminar in ECSD (relevant topic)

ISAT474: Political Ecology

JUST365: Justice in Literature, Film and Art (prereq: JUST200 + 1 other JUST200-level)

JUST334: Media and Justice (prereq: JUST200 + 1 other JUST200-level)

ENG383: Global Cinema

ENG371: Literature and the Environment

ENG390: The Environmental Imagination

ENVT300: Topics in Environmental Humanities

HIST304: Native Peoples of the United States

SCOM302: Third Wave Ecofeminism

Methods (Choose one)

GEOG365: Cartography

ENG391: Introduction to Creative Writing – Nonfiction

ENG390: The Environmental Imagination

ENG372: Ecocriticism: Climate Change and the Humanities

SCOM354: Environmental Communication and Advocacy

Adv Sequence

GEOG410: Geography & Film; GEOG470: Senior Seminar in ECSD (relevant topic)

GEOG490 (6) in an environmentally related writing intensive research project

Recommended Majors/Minors

Creative Writing, Environmental Humanities, Film Studies; Justice Studies

A **Peoples' Geography (or Geography of the People)** confronts ideologies and prejudice as they really are and mirrors the complex weave of competition, struggle, and cooperation within the shifting social and physical landscapes of the twenty-first century. The world must be depicted, analyzed, and understood as the material manifestation of human hopes and fears mediated by powerful and conflicting processes of social reproduction. Such a **Peoples' Geography** must have a popular base, be threaded into the fabric of daily life with deep taproots into the well-springs of popular consciousness. It must also open channels of communication, undermine parochialist worldviews, and confront or subvert the power of the dominant classes or the state.

Peoples' Geography (at least 18 credit hours)

GEOG305: History and Philosophy of Geography

GEOG325: Environmental Ethics

GEOG329: Global Climate Change

GEOG334: Geography of East and SE Asia

GEOG344: Globalization and Development

GEOG348: Indigenous Geographies

GEOG350: Topics in Geography (relevant topic)

GEOG375: Political Geography

GEOG376: Urban Geography

GEOG380: Cultural Geography

GEOG410: Geography & Film

GEOG 415: Environment, Landscape and Culture

GEOG470: Senior Seminar in ECSD (relevant topic)

GEOG476: Sustainable Cities Seminar

ISAT474: Political Ecology

HIST304: Native Peoples of the United States

SCOM302: Third Wave Ecofeminism

Methods (Choose one)

GEOG315: Field Studies in Geography; GEOG365: Cartography; ENG 372:

Ecocriticism: Climate Change and the Humanities

Adv Sequence

GEOG410: Geography & Film; GEOG470: Senior Seminar in ECSD (relevant topic)

GEOG490 (6) in a relevant research project

Recommended Majors/Minors

Justice Studies, Humanitarian Affairs, Environmental Studies, Environmental Humanities

Global Patterns; Local Lives critically investigates how global and regional geographic issues influence the lives of individuals and communities around the globe.

Global Patterns; Local Lives (at least 18 credit hours)

GEOG305. History and Philosophy of Geography

GEOG332. Geography of Europe

GEOG333. Geography of Russia and the Former Soviet Union

GEOG334. Geography of East and Southeast Asia

GEOG335. Geography of Africa

GEOG336. Environmental Hazards: A Focus on Southeast Asia

GEOG337. Geography of Latin America

GEOG339. Geography of the Caribbean

GEOG344. Globalization and Development

GEOG345. Geography of Poverty

GEOG348. Indigenous Geographies

GEOG350: Topics in Geography (relevant topic)

GEOG375. Political Geography

GEOG376. Urban Geography

GEOG380. Cultural Geography

GEOG410. Geography and Film

GEOG415. Environment, Landscape and Culture

GEOG427. World Water Resources

GEOG440. Global Biodiversity

GEOG476. Sustainable Cities Seminar

Methods (Choose one)

GEOG315: Field Studies in Geography; GEOG365: Cartography; GEOG 385. Principles of Remote Sensing

Adv Sequence

GEOG410: Geography & Film; GEOG470: Senior Seminar in ECSD (relevant topic)

GEOG490 (6) in a relevant research project

Recommended Majors/Minors

Foreign Language; Humanitarian

Spatial Analysis introduces the tools, methods, and techniques used to study spatio-temporal relationships inherent in data.

Spatial Analysis (at least 18 credit hours; at least one must be MATH)

GEOG350: Topics in Geography (relevant topic)

GEOG365: Cartography (if not taken as a methods course)

GEOG366: Intermediate GIS (if not taken as a methods course)

GEOG385: Principles of Remote Sensing (if not taken as a methods course)

GEOG406: Forest Inventory: A Geospatial Approach

GEOG465: Topics in GIS

GEOG466: GIS and Geographic Databases

GEOG467: GIS Project Management

GEOG468: Internet Geographic Information Systems

GEOG469: Applications of GIS

MATH 248. Computers & Numerical Algorithms

MATH 309. SAS Programming and Data Management

MATH 318. Intro to Probability & Statistics

MATH 322. Applied Linear Regression

MATH 324. Applied Nonparametric Statistics

MATH 325. Survey Sampling Methods

MATH 327. Categorical Data Analysis

MATH 328. Time Series Analysis

Methods (Choose one)

GEOG315: Field Studies in Geography; GEOG355: GPS

Adv Sequence

GEOG465: Topics in GIS; GEOG469: Applications of GIS

GEOG490 (6) in a relevant research project

Recommended Majors/Minors

Mathematics, Computational Sciences Concentration (B.A. or B.S.)

Mathematics (Minor)

Statistics (B.S. or Minor)

Hybrid Geography/Spatial Analysis combines two concentrations into a single pathway allowing students to simultaneously build geospatial techniques congruently with critical geographic thinking.

Hybrid Geography/Spatial Analysis (at least 18 credit hours)

- Three courses from one of the following concentrations: Climate Science, Climate Affairs, Creative Expressions of Place, Peoples' Geography, Global Patterns; Local Lives
- Three courses from the Spatial Analysis Concentration

Methods (Choose one)

A methods course from one of the two concentrations chosen

Adv Sequence

Two courses chosen from either of the Advanced Sequence options in Spatial Analysis or the other chosen concentration

Recommended Majors/Minors

Chosen from the Spatial Analysis concentration or the other chosen concentration

Urban Sustainability (Dr. Henry Way) Sustainable cities, urban sustainability, or ecocity (also "ecocity") is a city designed with consideration for social, economic, environmental impact, and resilient habitat for existing populations, without compromising the ability of future generations to experience the same.

Urban Sustainability (at least 18 credit hours)

- GEOG 376 Urban Geography*
- GEOG 301 Introduction to Natural Disasters
- GEOG 320 Human Dimensions of Global Change
- GEOG 350 Urban topics course
- GEOG 345 Geography of Poverty
- GEOG 327 Climatology
- GEOG 329 Global Climate Change
- GEOG 336 Environmental Hazards
- GEOG 344 Economic Geography & Development Issues
- GEOG 375 Political Geography
- GEOG 380 Cultural Geography
- GEOG 476 Sustainable Cities seminar*
- GEOG 4xx "City Practicum"*
- GEOG 491 International Studies – with a city-based focus

Methods (Choose one course from a range of geospatial technology, quantitative, qualitative options)

* = required courses