

Urban Development and Planning

For the first time in human history over half of the world's population lives in cities. This presents a monumental challenge to politicians, urban planners, and citizens to build sustainable, just, and livable urban spaces. A background in urban geography prepares you for one of the many careers devoted to improving cities and settlements around the globe.

- 228: Introduction to Urban Geography
- 423: Social Geography
- 428: Global Cities
- 429: Experiential learning in Durham
- 430: Migration and Cities
- 458: Urban Latin America
- 542: Neighborhoods and Health

Core Classes



- Qualitative, Quantitative and GIS skills: 391, 392, 491, 591,
- Research Opportunities: 697 Capstone, Internships, and Independent Study

Methods and Research



- 2 required courses
- DCRP 246: Cities of the Future
- DCRP 247: Solving Urban Problems
- 3 DCRP electives

Minor in City Planning (DCRP)



There are career opportunities in city planning, architecture, real estate development, policy analysis, community development, or civil engineering; just to name a few!

Diversity and Justice

How do the places, spaces, and environments that we inhabit reinforce structures of oppression or create the potential for liberation? Social movements and activists have created *spatial* theories and strategies to change the world: by occupying public space or by fighting for the protection of sacred lands. In our classes, you will learn how power flows through space; that all politics unfolds in places; that everyday life is political; and that environmental issues are connected to social justice. You will also learn tools including mapping technologies, remote sensing, oral histories, and interviews.

- 56 FYS: Local Places in a Globalizing World
- 67 FYS: The Politics of Everyday Life
- 225 Space, Place, and Difference
- 228 Urban Geography

Building Blocks



- 212 Environmental Conservation and Global Change
- 232 Agriculture, Food, and Society
- 447 Gender, Space, and Place in the Middle East
- 470 Political Ecology
- 480 Liberation Geographies
- 650 Technology and Democracy Workshop

Advanced Courses



- 491: Intro to GIS
- 541: GIS and Public Health
- 543: Qualitative Methods in Geography
- 591: Applied GIS

Methods



Climatology

The emphasis of this pathway is on developing an understanding of the Earth's climate system, the impacts of climate on environmental and human sectors, and in gaining quantitative skills that can be used to analyze climate and weather.

- 110: The blue planet or 111: Weather and climate
- 412: Synoptic meteorology
- 414: Climate change
- 416: Applied climatology

Core Classes



- 391: Quantitative methods in geography
- 410: Modeling environmental systems

Geography Methods & Skills



- Math 231, 232, 383, 416
- Physics 104, 105 or 116, 117
- Statistics 151 or 155
- Computer science 110, 116, or 121

Complimentary Methods and Skills



Climate science has growing career opportunities due to renewed interest in current and future climate change. This pathway will position students for non-profit, governmental, and private environmental jobs, as well as for advanced study in climatology.

International Development and Globalization

The “international development and globalization” pathway will prepare you with the practical tools and intellectual framework to become participants and leaders in the world of international development. You might continue your studies in graduate school, work for an international non-governmental organization, pursue a career in diplomacy, or work with social movements. In addition to the building block courses of 120, 121, 123, and 130, the following classes are recommended:

- 259: Latin America
- 265: Eastern Asia
- 266: Southeast Asia
- 267: South Asia
- 268: Africa
- 464: Europe

Region Specific



- 423: Social Geography
- 428: Global Cities
- 460: Economic Change
- 453: Political Geography
- 470: Political Ecology

Advanced Concepts



- 435: Environmental Politics
- 447: Gender in the Middle East
- 448: Muslim Societies
- 452: Mobile Geographies
- 480: Liberation Geography

Contemporary Issues



GIScience

Geographic Information Science (GIScience) emphasizes geographic information technologies, their real-world applications, and the science and technology underlying them. These technologies include geographic information systems (GIS), satellite remote sensing, global positioning systems, computer cartography, terrain analysis, and geospatial visualization. These skills are in high demand, giving students a competitive edge to pursue careers in the private, public, nonprofit sectors.

- Geog 370: Introduction to Geographic Information
- Geog 391: Quantitative Methods in Geography: *Required for GISci Concentration*
- Geog 410: Modeling for Environmental Sciences
- Geog 451: GIS in Public Health
- Geog 477: Introduction to Remote Sensing

GIScience Courses



- Geog 577: Advanced Remote Sensing
- Geog 591: Urban GIS
- Geog 592: Watershed GIS
- Geog 593: GIS Programming
- Geog 594: Global Positioning Systems and Applications
- Geog 595: Ecological Modeling
- Geog 491: Introduction to Geographic Information Systems

GIScience Courses



- COMP 116, 401, 410, & 416: Variety of classes in Programming
- MATH 231/232: Calculus 1 and Calculus 2
- MATH 383: Differential Equations
- MATH 416: Linear Algebra
- ENST 462: Geostatistics for Spatial/Temporal Environmental Phenomenon
- ENST 468: Advanced Functions of Temporal GIS

Courses Outside of Geography



Geography of Health and Disease

Health Geography takes a socio-ecological approach, rather than a biomedical approach to understanding the occurrence of human disease and wellbeing. This is a highly integrated field, requiring knowledge of social systems, environmental systems, and the etiology and ecology of disease. In addition, geospatial technologies such as geographic information systems, satellite remote sensing, and geographic analysis are powerful tools in the study and management of human diseases. This pathway will prepare students for a career in the spatial, social, and ecological dimensions of public health, as well as for graduate school in the spatial health sciences.

- Geog 434: Cultural Ecology of Disease
- Geog 445: Medical Geography
- Geog 446: Geography of Health Care Delivery
- Geog 451: GIS in Public Health
- Geog 542: Neighborhoods and Health

Health Courses in Geography



- Geog 232: Agriculture, Food, and Society
- Geog 269: Human-Environment Interactions in the Galapagos Islands
- Geog 391: Quantitative Methods
- Geog 410: Modeling for Environmental Sciences
- Geog 430: Global Migrations
- Geog 450: Population Geography

Geography Methods & Skills



- ANTH 319: Global Health
- BIOL 101: Principles of Biology
- CHEM 101: General Chemistry I
- SOCI 121: Population Problems
- STOR 151: Basic Concepts of Statistics and Data Analysis
- STOR 155: Introduction to Statistics
- STOR 358: Sample Survey Methodology

Classes Outside of Geography

