



POPULATION, DEVELOPMENT & SUSTAINABILITY EMPHASIS

This emphasis focuses on population growth, urban systems and sustainable development. The United Nations has projected that by 2050 the world's population will be 9.7 billion. Due to employment and access to social resources, including medical assistance and educational opportunities, much of this population growth will occur in urban areas. These urban areas vary in their stages of development and environmental impacts, threaten to decrease the livability of already established urban areas. A lack of sustainable development in the future will lead to further poverty, disease, and death.

Students can choose electives that allow them to specialize in either urban or sustainable development areas. The courses in this emphasis cover concerns of population growth: cities, transportation, politics, health, energy, environment, and economics. Upon completion, students will understand today's major issues with population growth, urbanization and sustainability globally and best practices to alleviate much of the burden of future growth.

REQUIRED CLASSES

Geography core requirements

- GEOG 1000** Earth Environments and Global Change (PS)
- GEOG 1005** Earth Environments and Global Change Lab
- ENV 1100** Our Digital World
- GEOG 1300** World Regional Geography (BF)
- GEOG 1400** Human Geography (BF)
- ENV 2100** Environment and Society (BF)
- *GEOG 3100** Introduction to Geographic Information Science (QI)
- GEOG 3210** Global Climate Change

BS student requirement

- *GEOG 3020** Geographical Analysis (QI)

BA student requirement

- ENV 3030** Introduction to Qualitative Methods (DI)

One of the following: (Upper division Physical Geography choice list)

- GEOG 3270** Biogeography: Global Patterns of Life
- *GEOG 3050** Problem Solving in Physical Geography
- GEOG 3205** Climate Change Foundations
- *GEOG 3200** Geomorphology: Mountains, Rivers, Deserts
- *GEOG 3290** Water Resources in a Changing Climate
- *ENV 3390** Sustainable Steams and Riparian Zones

Emphasis Required Core Choices: (select three courses from list)

- GEOG 2310** Introduction to Natural Hazards
- GEOG 3090** Health Geography in the Age of Global Pandemics
- GEOG 3400** Fertility, Mortality, and Migration in a Dynamic World
- GEOG 3440** Global Economic Geography
- ENV 3430** Food and the Environment
- ENV 3368** Energy Choices for the 21st Century

EMPHASIS ELECTIVES

Select three elective courses from list

- *GEOG 3290** Water Resources in a Changing Climate
- GEOG 3385** Federal Land Management
- GEOG 3610** World cities
- *GEOG 4140** Advanced Methods in Geographic Information Science
- GEOG 5215** Climate Change Impacts, Adaptation, and Mitigation
- GEOG 5340** Geography of Disasters and Emergency Management
- GEOG 5405** Culture, Power, and Dissonance
- GEOG 5425** Hate, Place, and Culture
- ENV 3330** Urban Environmental Geography
- ENV 3350** Resource Conservation & Environmental Management

Emphasis Regional Elective: (select one course from list)

- GEOG 3635** Contemporary Southeast Asia : Environmental Politics
- GEOG 3640** Geography of China & Asia (IR)
- GEOG 3670** Geography of Latin America (IR)

***GEOG 5940** Internship in Geography or **GEOG 5950** independent study may be counted only once toward the major elective requirement



CAREER OUTLOOK

- Bureau of Land Management and Forest Service
- US State Department
- USAID and UN
- Urban Planning
- Urban Development
- Department of Agriculture & Food & Forestry
- Land focused conservation organizations
- Transportation Planning and Management
- Housing and Real Estate Development

SCHOLARSHIPS

Thanks to the generous donations given by industry & alumni, The School of Environment, Society & Sustainability offers several scholarships to incoming and continuing students.

To apply, please visit:

<https://ess.utah.edu/scholarships.php>

CONTACT INFORMATION

For more information about the Geography major or to contact an Academic Advisor, please visit: [: https://ess.utah.edu/](https://ess.utah.edu/)



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**SCHOOL OF ENVIRONMENT,
SOCIETY & SUSTAINABILITY**



STEM Education