Our Globalizing World  
**Geog 1301W**
Have you wondered how your life is connected to others around the world? Are you curious about the community in which you live and why it has the characteristics it has? Explore all of these questions and more in Geog 1301!  
*Derickson*  
LibEd: SSci, GP, WI (BSE-Disc)  
T, Th 1:00-2:15p (plus F9-10 or 11-12)

**Geography of Global Cities**  
**Geog 1372**
Course explores urban forms/processes, using key global cities as examples. Topics include: Political, historical, and economic contexts of cities, Planning ideologies, Globalization, Race/segregation, Population growth, Environmental problems, and global urbanization.  
M, W 1:00-2:15p; TBD  
LibEd: SSci, GP

**Biogeography of the Global Garden**  
**Geog 1403**
Interested in the environment? Want to understand the news you hear about environmental degradation? In Geog 1403 you’ll learn how and why the natural environment varies across the globe, and how ecological systems function.  
M, W 11:15-12:30 + lab section; Kipfmueller  
LibEd: Bios, ENV

**Honors Lab Section**  
**Geog 1403H**
M, W 11:15-12:30 + Wed 1:25-3:20p: (Kipfmueller &) Griffin

**Introduction to Meteorology**  
**Geog 1425**
What causes thunderstorms and tornadoes? How do satellites work? Do clouds make the earth warmer or cooler? What is the greenhouse effect, and should we be concerned about it? In Geog 1425, you will learn about weather, climate and the atmosphere.  
M, W, F 3:35-4:25p + lab section; TBD  
LibEd: Phys, ENV

**Mapping our World**  
**Geog 1502**
We will learn about mapping our world by understanding how maps work, making our own maps, mapping virtual worlds like Facebook, and understanding how people use maps to tell stories and lies. Along the way, we will see how mapping is a useful lens through which to understand interactions between technology and society.  
M, W 11:15-12:05 + online lab sec; Bonsal  
LibEd: TS, SSci

**Freshman Seminar: Living with Innovation**  
**Geog 1905**
As a High risk/High reward area, how will we manage Nanotechnology? Learn about the risks, rewards, and potential benefits that nanotechnology brings...  
M, W 9:45-11:00; Calow

**Geography of East Asia**  
**Geog 3211**
East Asia’s 1.5 billion people have profound impacts economically, culturally, & politically. Through a focus on China, we explore the history and diversity of its landscapes, ethnicity, and culture, the relationship between the Red Dragon Rising & its neighboring countries, and the opportunities and challenges that East Asia confronts in the context of globalization.  
M, W 1-2:15; Song

**Cities, Citizens, and Communities**  
**Geog 3371W**
Why do urban places matter to people? This course introduces cities and suburbs as unique crossroads of cultural, social, and political processes. Explore competing/conflicting visions of city life, cultural diversity, and justice through a focus on the American city.  
Tu, Th 9:45-11:00; Henderson  
LibEd: DSJ, WI

**The City in Film**  
**Geog 3374W**
Movies are on the key modes of discourse in modern life. We’ll view and analyze films from the 1920s to the 1990s in which the city or ideas about urbanism play an important role. We will look at how particular types of film as well as the language of film itself are suited for portraying aspects of urbanization & urban life.  
Mon 6:00-9:30p, disc M or Th. 2:30-3:45 Henderson  
LibEd: WI, AH

**Music in the City**  
**Geog 3377**
Why is music so central to the life of the city? Through music, people feel connected to landscapes, neighborhoods, buildings, and ethnicities. Themes: transnational circuits of reggae, the class backgrounds of punk, Motown and civil rights, underground electronic music, sexual ambivalences of Mpls’ Prince. Students explore own interests in class, field trips, and individual research.  
M, W 9:45-11:00a, Saldanha  
2xcr SP option  
LibEd: DSJ

**Env. & Development in the Third World**  
**Geog 3379**
How are economic development and environmental issues interrelated? How will those relationships play out on the landscape of developing countries? Learn through case studies about the history of development in places of the third world and potentials for social/environmental sustainability.  
Tues 5:00-7:30pm; Samatar  
LibEd: SSci, ENV (BSE-SSoc)

**Population in an Interacting World**  
**Geog 3381W**
What will critical local, national, and international population concerns such as international migration, the AIDS epidemic, and refugees mean in the future? How are these issues addressed today? Learn about population issues & policies around the world!  
Tu, Th 9:45-11:00; Instructor TBD  
LibEd: SSci, GP, WI (BSE-SSoc)

**Geography of Health and Health Care**  
**Geog 3411W**
Application of human ecology, spatial analysis, political economy, & other geographical approaches to analyze problems of health & health care. Topics: distribution & diffusion of disease; impact of environmental, demographic, & social change on health; distribution, accessibility, & utilization of health practitioners & facilities.  
Tu, Th 1:00-2:15; Grace  
LibEd: WI (BSE-SSoc)

**Principles of Cartography**  
**Geog 3511/5511**
The class serves as an introduction to cartography – the art and science of mapping. You’ll learn the theory of cartography and how cartographers acquire data, create map projections, represent geographical data, and create maps for the Web.  
T, Th 9:45-11, Lindberg
Geog 3401
What is environmental change? What causes it? Is it “bad” for everyone? In Geog 3401 you’ll learn about the processes that create and change patterns of climate, vegetation, soils, and landforms, and how human impacts affect our natural resources.

* M, W, F 9:00-9:55 Klink; *2xcr SP option* LibEd: ENV (BSE-Bios)

Urban Climateology
Geog 3900 (sec 001)
Do cities create thunderstorms? Can pollution from cities change the climate? In this course you will learn about the physical-science principles governing the urban climate, about the observational and modeling strategies that are used for studying urban climates (including making some of your own observations), and about how human activity in urban areas affects Earth’s weather and climate.

* M, W, F 11:15-12:30, Klink; *2xcr SP option* (BSE-Bios)

Earth’s Climate
Geog 3900 (sec 002)
Explore and investigate more in depth the natural phenomena that affect and alter the Earth’s climate. Learn about the polar vortex, jet streams, arctic amplification, climate extremes, energy & water balance along with much, much more!

* T, Th 9:45-11:00, Griffin (BSE-Bios)

Environmental Thought and Practice
Geog 4002W
How are identity politics, new social movements, and environmentalism impacting natural environments? Explore nature-society relations through a variety of approaches and theoretical frameworks such as feminist theory and post-structuralism.

* M, W 11:15-12:30, Braun LibEd: WI (BSE-Bios)

Geography and Real Estate
Geog 5361
Through lectures, field trips, and personal research the course will examine the nature and history of land ownership in the United States with special reference to Minnesota. The focus will be on the history and institutional characteristics of ownership and not on the uses to which real property has been put or the philosophical, sociological, or economic aspects of ownership or use.

* Th, Fr 1:00-2:30; Squires *2xcr SP option*

Advanced Spatial Data & GIS Courses
- pre-reg Geog 3561 & permission required to register

Advanced GIS
Geog 5563
Addresses spatial data models, topology, data encoding, data quality, database management, spatial analysis tools & visualization techniques. This course is for advanced undergrads with ArcGIS experience; you will need instructor permission to register.

* M, W 4:00-5:15, Bonsal

ArcGIS II
GIS 5571
* Th 6:00-8:50pm; Lindberg

Spatial Database Design & Administration
GIS 5577
* W, 6:20-8:30, Kne

Web GIS Programming
GIS 5578
* Tu 6:20-8:50; Haynes

For more information contact the undergraduate advisor in Geography, Environment & Society:
Jeanette Simmonds: geogadv@umn.edu
Room 481 Social Science Bldg. www.geog.umn.edu

Urban Studies Courses

URBS 1001W/3001W: Complexity of Metropolitan Life
T, Th 11:15-12:30; Kayzar (No Geog major credit allowed)

URBS 3751: Understanding the Urban Environment
Explore links between cities and the env w/ emphasis on pollution, green space, undesirable land use, env justice, and how to sustain urban dvlp. Tu, Th 1:00-2:15 Pentel *2xcr SP option*; Geog, BSE, Urbs

URBS 3771: Fundamentals of Transit
Fri 12:20-3:20p; Loetterie Geog, Urbs

URBS 3871: A Suburban World
Suburbs are sites for battles over resources, planning practices, land use, & econ dvlp. How suburban life shapes values, political ideals, and worldviews of its populations.
Thurs 2:45-5:15p; Kayzar; *2xcr SP option* Geog, BSE, Urbs

Grand Challenge Courses

**Students must petition for major credit for Geog & BSE**

GCC 3006: Climate Change Uncertainties Tu, Th 8:45-10:00a

GCC 3007/5007: Toward Disease Conquest Tu, Th 1:00-2:15p

GCC 3009: Rivers & Cities Urban Water Systems

**Senior Project (SP) Options**

See Jeanette with questions or for recommendations.
- Students planning to graduate between now and F16 should consider completing a senior project in Spr16
- Honors students should contact Jeanette S. & Dan Griffin
- No GIS project reg. is avail for S16; GIS SP Seminar held F15.

**2xcr SP Options!** Students must contact instructor prior to Jan. 2016 or as soon as registered for course; space is limited. Do not wait until the first week to contact instructor!
- Geog 3377 Music in the City *Geog 3401 Env. Systems*
- Geog 3900 sec 1: Urban Climate *Geog 5361 Real Estate*
- URBS 3751 Urban Env. *URBS 3871 Suburban Wrld

Urban Studies Senior Paper Seminar
URBS 3855W: F 9:00-11:00 [BSE & Geography majors w/ Urban-related interests welcome; contact Pent005@umn.edu for permission & info; pre-reg 1 Geog or Urbs + 1 3xxx SocSci course]

Guide to LibEds in Geography:
- Phys: *Physical Sci*: 1425 / *Bios: Biological Sci*: 1403
- HP: *Historical Perspectives*: 3373
- GP: *Global Perspectives*: 1301W, 3331, 3373, 3161, 3381W
- ENV: *The Environment*: 1403, 1425, 3376
- TS: *Technology & Society (TS)*: 1502
- WI: *Writing Intensive*: 1301W, 3361W, 3371W, 3381W
- BSE: Meets BSE major req; see GES Advisor for Qs