Geography Courses

Fall 2014

Dept. of GES:
Geography, Environment, & Society
Interested in Attending Graduate School?

GES is holding a panel discussion for all students seeking information about graduate school in Geography, GIS, Environmental Sciences, Social Sciences and Sustainability.

Friday, April 18th: 2-3pm in Blegen 445
Sandwiches and pop will be served!

Is grad school for me? How do I choose a program?
How do I get in?
What does it cost? How do fellowships work?

Current graduate and post-graduate students from GES and UMTC’s Institute on the Environment (IoNE) will talk about their experiences and provide insights about the grad programs they attended.

This is a wonderful opportunity for undergraduate students to talk with U of MN grad students and post-doc researchers about their path to-, through- and post- graduate school!

Come with the questions you've always wanted to ask!!
Geography ...

- of Environmental Systems & Climate Change
- of Human-Environment interactions
- of Landscape and Land-use
- of Development & Underdevelopment
- of Human Populations & Migration
- of Cities, of Cultures, of meaning-making
- and Information Science & Systems (GIS)
Humans are now an urban species, and this is no small thing. Modern urbanization marches on, a whirlwind transformation of social organization that is implicated in some of the most intractable problems of contemporary life. By looking comparatively at cities, especially along the troubled axis of the developed Global North and the developing Global South, we will learn how the urban environments reflect and reproduce broader social processes: capitalism, racism, homophobia, and colonialism.

**Geog 1372**

M, W 1:00-2:15pm; Nikhil Anand

**Geog 3373**

We study cities not only for their own sake, but because they serve as mirrors that reflect their makers and inhabitants. In Geog 3373 you’ll learn about ancient cultures and eras of cities in history around the world, and planning triumphs and disasters.

**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.

**2xcr Senior Project option**

**Urban Geog Courses**
Landscapes & Land Use

Geography of the United States & Canada

*Geog 3101*

When you travel cross-country, do you understand the landscape you see? Travel across the United States via lectures by one of the foremost regional geographers in the country, richly illustrated by Professor Hart’s voluminous slide collection.

*Dr. Fraser Hart has studied rural landscapes and landuse in the U.S. and Canada for more than 50 years. He will be retiring soon, so don’t miss this amazing opportunity!*  

*M, W, F 10:10-11:00; Dr. Hart LibEd: SSc*

Rural Landscapes and Environments

*Geog 5393*

Can you explain what you see as you drive through rural areas? Travel along with Professor Hart across the rural landscapes of North America, Western Europe, South Africa, and Australia through lectures illustrated by slides from his four decades of fieldwork.

*M, W 1:00-2:15; Dr. Hart*

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and Public Policy
with Dr. Rod Squires

Geography and Public Policy  Geog & BSE 3361W

Individuals, corporations, and governments use the nation's land surface, water, and air to produce goods and to provide services. Landscapes, assemblages of artifacts, and places are the outcome of rational decisions made by individuals, corporations, and governments. The course examines landscapes and places as political statements that reflect a past and a present and provide a basis for a future.

*Tu, Th 1:00-2:15pm; Squires LibEd: WI 2xcr Senior Project option***

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*Image of a landscape with a single tree in the foreground.*
Human & Cultural Geog Courses

Geog 1301W: Our Globalizing World 3 credit course (was 4cr)! w/ Kate Derickson
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?

Geog 1372: Geography of Global Cities w/ Nikhil Anand
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, & urbanization.

Geog 3161 / GLOS 3921: Europe w/ Arun Saldanha
Divided by landscape, language, religion, and war, Europe is a kind of test case of how all today’s societies are supposed to function. This course will guide you from Europe’s physical make-up and urbanization to the formation of nation-states and the colonization of other continents, in order to understand the continent.

Geog 3145/GLOS : The Islamic World w/ Abdi Samatar
Want to understand the culture of 20 % of the world’s population and a deeper understanding of current events? We’ll examine the geographic origins, history, and culture of Islam, and Islamic resurgence and the post-colonial world.

Geog 3331 / GLOS 3231: Geography of the World Economy
Economic geography has three main components: where stuff is made (production), where stuff is used (consumption); and how production and consumption impact the landscape and the people who inhabit it.

Geog 3381W / GLOS 3701W: Population in an Interacting World w/ Sara Nelson
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 more about population issues and policies around the world!

Geog 3388: Going Places: Geographies of Travel & Tourism w/ Arun Saldanha
Course develops a critical &historical conception of tourism in relation to other kinds of mobility. The global flows of tourism allow for grasping crucial contemporary debates around consumption, development, identity, and climate change.
Biogeography of the Global Garden w/ Scott St. George

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.

Meets Biological Sciences & Environmental (BIOS & ENV) LibEds
Mon/Wed/Fri 11:15-12:05 plus lab

Introduction to Meteorology w/ Katherine Klink

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.

Meets Physical Sciences & Environmental (PHYS & ENV) LibEds
Mon/Wed/Fri 9:05-9:55 plus lab section (T, W, or Th 1-2.15)

Intro. to Dendrochronology

Historical development, operational techniques, biological background, and principles of tree ring analysis. Applications of tree-ring data to investigate environmental change and past cultures. Pre-requisites: Instructors permission &/or 1403 or 1425 & (BIOL 1001 or 1009) &/or courses in ecology & math (stats &/or algebra). 2xcr Senior Project option: contact Jeanette & instructor for permission.

T 9:45-11:00; Kipfmuellner

Climatic Variations

There is broad consensus that the Earth’s climate system is changing due to human activities such as fossil fuel combustion and land use changes. However, natural mechanisms (e.g., volcanic eruptions) also result in variations in the climate system. We will explore past climate variability in an effort to understand the future by applying hands-on data analysis techniques, lectures, and by examining research articles related to climate variability.

Pre-requisites: Geog 1425 & 3401 & (3431 or 3839) &/or Biology/Math courses.
Wed/Fri 9:45-11:00; Griffin
GIS (Geographic Information Science) Courses

Take your GIS and mapping skills to the next level in Geography & GIS courses offered in Fall 2014!

Geog 1502: Mapping Our World (3cr)
~Understand how maps work & how to make them w/ Steve Manson

Geog 3531: Numerical Spatial Analysis (4cr)
~Describe spatial relations & solve problems w/ spatial & stats data

Geog 3561: Principles of GIS (4cr)
~Core GIS course: Learn GIS basics in lectures & by using software

Geog 3521: Digital Planet (3cr)
~Explore the use of mobile geospatial IT, its systems, & social effects

**Geog 5562 GIS & Analytic Cartography (3cr)
Advanced Course w/ Mark Lindberg. Pre-req GIS 5571 & permission

**GIS 5571: ArcGIS I (3cr)
Learn ArcGIS Desktop from Senior Cartographer Mark Lindberg

**GIS 5555: Basic Spatial Analysis (3cr)
~Hands-on experience w/ advanced methods in geographic, spatial, and statistical research to explore patterns & dynamics of problems w/ spatial elements. Pre-req 3561 & permission from Steve Manson. Geog majors having adequate preparation may complete their senior project with this course. (Contact Dr. Manson prior to 1st week of classes.)

** Permission required! Undergraduates must contact instructor with questions about whether they have preparation/skills to continue on to 5xxx level courses. Email geogadv@umn.edu if you are interested in how these courses count toward your Geography major, Geography minor, or GIS minor program.
LibEds in Geography Courses

- **Physical Sci**: 1425
- **Biological Sci**: 1403
- **Social Sciences**: 1301W, 1372, 1502, 1973, 3101, 3145, 3331, 3381W, 3973
- **Historical Persp**: 3373
- **Global Persp**: 1301W, 1372, 3145, 3331, 3373, 3381W
- **Div. & Soc. Justice**: 3371W
- **Environment**: 1403, 1425, 1901
- **Tech & Society**: 1502, 3521
- **Writing Intensive**: 1301W, 3361W, 3371W, 3381W
Europe w/ Arun Saldanha  

- Divided by landscape, language, religion, and war, Europe is a kind of test case of how all today’s societies are supposed to function. This course will guide you from Europe’s physical make-up and urbanization to the formation of nation-states and the colonization of other continents, in order to understand the continent.

  *M,W 1:00-2:15*  
  *LibEd: Pending Global Perspectives*

Going Places: Geographies of Travel & Tourism w/ Arun Saldanha  

This course develops a critical and historical conception of tourism in relation to other kinds of mobility. The global flows of tourism allow for grasping crucial contemporary debates in the social sciences on consumption, development, identity, and climate change.

  *M,W,F 11:15-12:05; Saldanha 2xcr Senior Project option***  
  *LibEd: Pending Civic Life & Ethics*

- Cannot be guaranteed, but will very likely be approved prior to Fall 2014.
Senior Project (SP) Options

Courses w/ 2xcr Senior Project Options
** Register for Course now & for 3997 by 2nd week of class
Contact instructor! ~ limited SP seats per class; additional pre-reqs may be necessary to complete SP option with course.

3361W: Geog & Public Policy  
w/ Rod Squires [Policy Analysis, topic open]
3371W: Cities, Citizens, & Communities  
w/ Lorena Munoz [Human/Urban Geography]
3388: Geographies of Travel & Tourism  
w/ Arun Saldanha [Global & Cultural Geography]
3376: Political Ecology of N. America  
w/ Bruce Braun [Cultural & Human-Environment Intersections]
3839 Introduction to Dendrochronology  
w/ Kurt Kipfmueller [Environmental Geography]
GIS 5555: Basic Spatial Analysis  
w/ Steve Manson [GIS & Mapping]

SP Seminars:
**Writing Intensive options

Geog 3985W:  
Senior Project Seminar  
w/ Dr. Fraser Hart  
Professor assigns a Geography Project  
~email geogadv@umn for perm. #

URBS 3955W:  
Urban Studies Senior Paper Seminar  
w/ Paula Pentel  
For URBS theme related projects only;  
~Contact Jeanette and Paula (pent0005@umn.edu ) for information and permission.
Contact: GES Advising
geogadv@umn.edu

Website: geog.umn.edu/undergrad

Drop-in Advising:
for major/minor declarations & course info:

• “Geog-only Drop-in Advising”:
  w/ Michael, Geography/GIS Peer Advisor

• “Jeanette’s Drop In Advising”:
  w/ Jeanette Simmonds, GES Advisor (Geog/BSE/GIS)