



**Spatial Perspectives on Analysis  
for Curriculum Enhancement**

## **Summer Workshops 2005 For Instructors of Undergraduate Courses in the Social Sciences**

**SPACE** workshops are intended for instructors of undergraduate students in the social sciences. They offer content knowledge in methods of spatial analysis, instructional resources, and professional development support for curriculum planning and learning assessment. Successful applicants must commit to implementing spatial perspectives in their undergraduate courses and to providing feedback and documentation to evaluate the **SPACE** workshop program.

Participants in the program are eligible for **scholarship support** for subsistence. *The deadline for applications is 15 April 2005.* Details are available at [www.csiss.org/SPACE/workshops](http://www.csiss.org/SPACE/workshops).

### **Introducing GIS for Undergraduate Social Science Courses**

*1-6 August 2005, San Francisco CA*

This workshop will introduce social science faculty to GIS and map making. Lectures will cover GIS fundamentals and key concepts, data visualization, and analytical cartography. Labs will consist of step-by-step exercises using material from urban studies, planning, public health, and social policy to teach basic GIS skills. Presentations and discussions on spatially integrated social science, pedagogy, and assessment of student learning will complement the collaborative efforts of workshop leaders and participants in the design of course materials for use in undergraduate teaching. Although computer literacy is essential, no prior familiarity with GIS or spatial analysis is required.

**Instructors:** Richard LeGates (coordinator), XiaoHang Liu, Ayse Pamuk, and Barry Nickel (from San Francisco State University), Don Janelle and Stacy Rebich (UCSB). Keynote speaker: Keith Clarke (UCSB).

**Co-sponsor with CSISS:** The University Consortium for Geographic Information Science [www.ucgis.org](http://www.ucgis.org)

**Host institution:** Institute for Geographic Information Science, San Francisco State University [gis.sfsu.edu](http://gis.sfsu.edu)

### **GIS and Spatial Modeling for the Undergraduate Social Science Curriculum**

*10-15 July 2005, Columbus OH*

This workshop focuses on spatial thinking, spatial analytic methods and their applications suited for undergraduate social science courses. These methods include cartographic visualization, space-time modeling of individual behavior, spatial interaction models, spatial point pattern analysis and spatial optimization methods. The workshop will also cover curriculum development, pedagogy and student learning assessment. Workshop participants will consider how to integrate these methods into instructional modules, exercises, and learning assessment approaches. Requirements to benefit from this workshop include prior experience with computer file and data management in applications of quantitative analysis and GIS in the social sciences.

**Instructors:** Mei-Po Kwan (coordinator), Alan Murray, Morton O'Kelly, Kathryn Plank, Michael Tiefelsdorf, Ningchuan Xiao (all of The Ohio State University), Sara McLafferty (University of Illinois) and Shih-Lung Shaw (University of Tennessee).

**Co-sponsor with CSISS and host institution:** Dept. of Geography, The Ohio State University [www.geography.ohio-state.edu](http://www.geography.ohio-state.edu)

### **Spatial Analysis for the Undergraduate Social Science Curriculum**

*18-23 July 2005, Santa Barbara CA*

This workshop focuses on spatial methods and perspectives suited for applications in the undergraduate social science curriculum, such as exploratory spatial data analysis and cartographic visualization. Participants will illustrate these methods and design instructional modules and exercises for use in teaching undergraduates. The workshop will also explore strategies for curriculum development and assessment of student learning. Requirements to benefit from this workshop include prior experience with computer file and data management for quantitative analysis and/or basic GIS applications in the social sciences.

**Instructors:** Stuart Sweeney (coordinator), Sara Fabrikant, Fiona Goodchild, Mike Goodchild, Don Janelle, and Waldo Tobler (of UCSB)

**Co-sponsor with CSISS and host institution:** Dept. of Geography, University of California, Santa Barbara [www.geog.ucsb.edu](http://www.geog.ucsb.edu), Institute for Social, Behavioral, and Economic Research [www.isber.ucsb.edu](http://www.isber.ucsb.edu)

This program is funded by the National Science Foundation's Division of Undergraduate Education, under its program for Course, Curriculum & Laboratory Improvement – National Dissemination.



**Center for Spatially Integrated Social Science**

*Spatial Resources for the Social Sciences*

**For Resources on Spatial Analysis  
in the Social Sciences, see [www.csiss.org](http://www.csiss.org)**