Resources for National Dissemination

SPACE seeks to consolidate resources for teaching and learning to help facilitate national dissemination of existing spatial technologies and resources within undergraduate social science education. These include software, publications, and archives of teaching and learning resources developed by the Center for Spatially Integrated Social Science.

Publications

Spatial Social Science – an informative brochure on spatial methodologies in the social sciences.


Software (developed through the Center for Spatially Integrated Social Science)

GeoDa™ is a free software package for exploratory spatial data analysis. Tobler’s Flow Mapper for representing movement on maps from interaction matrices.

Web Resources for Learning and Teaching

CSISS Classics provide summaries of major contributions to spatial thinking in the social sciences prior to 1980, (e.g., John Snow and The London Cholera Epidemic of 1854). See www.csiss.org/classics/.

The CSISS course syllabi collection provides an opportunity to see how other instructors are using spatial perspectives in their teaching at undergraduate and graduate levels. See www.csiss.org/syllabi/.

The GIS Cookbook is a collection of GIS methods written with minimal jargon. The target users are social scientists interested in introducing spatial thinking into their current research but have little to no experience with GIS. See www.csiss.org/cookbook/.

SPACE Consortium Partners

University of California, Santa Barbara
Center for Spatially Integrated Social Science
Institute for Social, Behavioral and Economic Research
Department of Geography

University Consortium for Geographic Information Science
Department of Geography, San Diego State University, 2004
Program in Urban Studies, San Francisco State University, 2005
Department of Geography, University of Oklahoma, 2006

The Ohio State University – Department of Geography

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SPACE is a program supported by the National Science Foundation to advance the role of spatial thinking and spatial analysis in the undergraduate curricula of the social sciences. Its goal is to provide university and college instructors with training to design and implement innovative curriculum that will enable undergraduate students to integrate and analyze spatially referenced data with geographic information systems (GIS), analytical cartography, spatial statistics, and other tools.

SPACE workshops provide opportunities to:

- Achieve basic understanding of spatial methods and principles
- Gain experience with software for GIS, mapping, and spatial statistics
- Enhance courses with new concepts and techniques in spatial analysis
- Learn approaches to curriculum development and learning assessment
- Collaborate with others who teach from a spatial perspective
- Improve potential to make innovations at your institution
- Present experiences on curriculum development to colleagues

SPACE participants come to many disciplines:

- Anthropology
- Economics
- Regional Science
- Archaeology
- Geography
- Sociology
- Business
- Health Studies
- Tourism & Recreation
- Communications
- History
- Management
- Criminology
- Political Science
- Urban Planning
- Demography
- Public Policy
- Urban Studies

SPACE participants seek to use spatial perspectives in both methods and theory courses. Many also focus on interdisciplinary subjects, including:

- Crime Pattern Detection
- Globalization
- Poverty & Inequality
- Health and Environment
- Immigration Policy
- Urban Gentrification
- Environmental Justice
- Social & Ethnic Segregation

SPACE participants seek to use spatial perspectives in both methods and theory courses. Many also focus on interdisciplinary subjects, including:

- GIS and Spatial Modeling for Undergraduate Social Science
- Ohio State University, July 10-15, Mei-Po Kwan, coordinator
- Spatial Analysis for Undergraduate Social Science
- UC Santa Barbara, July 11-22, Stuart Sweeney, coordinator
- Introducing GIS for Undergraduate Social Science
- San Francisco State University, August 1-6, Richard LeGates, coordinator

SPACE will offer three instructor workshops in 2006. The University of Oklahoma will host a new workshop titled Introducing Remote Sensing in Undergraduate Social Science along with the workshops hosted at Ohio State University and UC Santa Barbara as listed above.

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