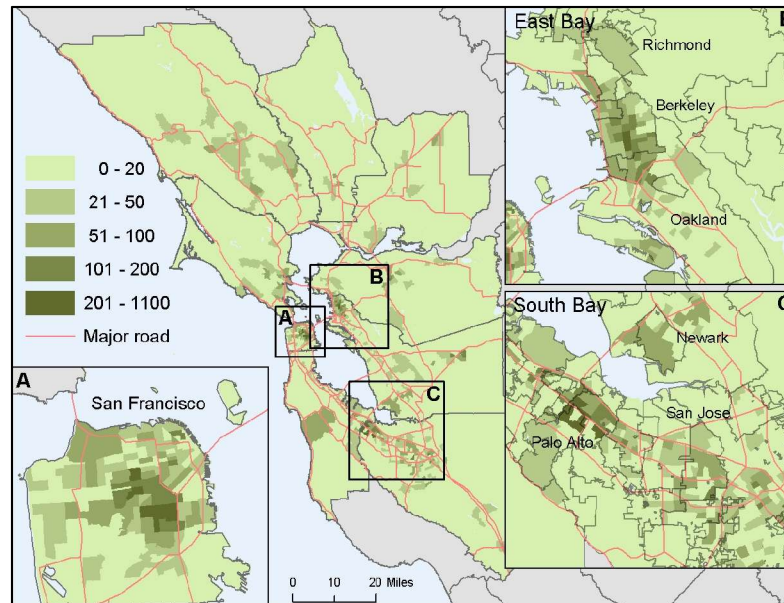


Introducing GIS and Spatial Analysis into the Planning Curriculum

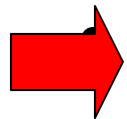


Richard LeGates
ACSP Conference
Kansas City 2005

Topics

- Who we are
- What we will do today
 - Panel
 - Lab session
- GIS Curriculum development projects
- GIS books
- ESRI virtual campus materials

Topics



- Who we are
 - What we will do today
 - Panel
 - Lab session
 - Spatially integrated social science
 - GIS Curriculum development projects
 - GIS books
 - ESRI Virtual campus materials

Who we are

- **Richard LeGates**
 - Professor of Urban Studies, SFSU
 - PI, NSF Space, Culture, and Urban Policy grant
 - PI, CSISS SPACE SFSU Summer workshop, 2005
 - Author, *Think Globally, Act Regionally* (ESRI Press 2005)
- **Ayse Pamuk**
 - Associate Professor of Urban Studies, SFSU
 - Co-PI, NSF Space, Culture, and Urban Policy grant
 - Instructor, CSISS SPACE SFSU Summer workshop, 2005
 - Author, *Planning Global Cities* (ESRI Press 2006)
- **Stuart Sweeny**
 - Associate professor of Geography, U.C. Santa Barbara
 - PI, CSISS SPACE UCSB Summer workshop, 2005
- **Brian Parr**
 - Workbook director, ESRI Virtual campus
 - Co-author *The Digital City* (ESRI Press 2005)

Topics

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What we will do today

- Panel 2:00 – 3:30
 - 10 minute intro (LeGates | Sweeney)
 - 10 – 15 minutes presentations
 - Panel discussion
 - Q & A
- Lab 3:30 – 5:30 and 7:30 – 8:30 Friday AM
 - Try out/view instructional modules (LeGates, Pamuk, Paar)
 - Try out public domain spatial analysis software GeoDa, Flow Mapper (Sweeney)

Topics



- Who we are
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- ➔ GIS Curriculum development projects
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CSISS/SPACE (U.C. Santa Barbara)

The screenshot shows a web browser window titled "Center for Spatially Integrated Social Science (CSISS)". The main header features a collage of images including a world map, a globe, and people working together, with the CSISS logo and the text "Center for Spatially Integrated Social Science Spatial Resources for the Social Sciences".

The CSISS Mission recognizes the growing significance of space, spatiality, location, and place in social science research. It seeks to develop unrestricted access to tools and perspectives that will advance the spatial analytic capabilities of researchers throughout the social sciences. CSISS is funded by the [National Science Foundation](#) under its program of support for infrastructure in the social and behavioral sciences.

CSISS News [Search Box]

Core Programs	Learning Resources	Spatial Resources	Spatial Tools
2005 Workshop Programs:  	These introductory materials include CSISS Classics and select video clips from the CSISS summer workshops.	CSISS has compiled e-journals, bibliographies, and other spatial resources for the social sciences.	Here's where you'll find information about software for the exploration and analysis of spatial data.

Search Engines	CSISS Events	Community Center	About CSISS
Try out one of our custom search engines to find spatial analysis resources on the Internet.	Here's where you'll find information and registration for workshops, conferences and specialist meetings.	Join the forums, or if your organization relates to our mission and goals, register as a CSISS affiliate.	News FAQ Mission & Objectives Reports & Publications Presentations Personnel Contact CSISS Site Map Site Credits

[Core Programs](#) | [Learning Resources](#) | [Spatial Resources](#) | [Spatial Tools](#) | [Search Engines](#) | [CSISS Events](#) | [Site Map](#) | [Site Search](#) | [Contact CSISS](#) | [Plug-ins](#) | [Privacy Policy](#) | [Site Credits](#) |

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Space, Culture, and Urban Policy

(San Francisco State University)

Spatial Analysis & Data Visualization

Undergraduate Social Science Education at SFSU

Home	Project Info	Modules	In the News	Resources	User Showcase
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Project Info

- [Project Details](#)
- [Testers](#)
- [Project Staff](#)
- [Contact Us](#)

Urban Studies Program

HSS 263
1600 Holloway Ave.
San Francisco, CA 94132

phone: 415-338-1178
fax: 415-338-2391
urbstu@sfsu.edu

Project Info

Thank you for visiting the website for Spatial Analysis and Data Visualization for undergraduate social science education at San Francisco State University.

The project began in May of 2003 in hopes of developing educational modules to teach spatial analysis and data visualization in undergraduate social science research methods and data analysis courses.

The design is to provide tools for teaching students technical skills to access, analyze, and communicate spatial information. The two modules take students, step-by-step, through exercises to facilitate understanding concepts and techniques for spatial analysis and data visualization using Geographic Information Systems (GIS). Using ESRI's ArcGIS, exercises have been carefully designed to incorporate students own values with respect to important topics that touch their own lives and to test them interactively against empirical evidence. To learn more in-depth about the project please select the [Project Details](#) link.

In mid-July of 2004 nearly a dozen professors from various backgrounds converged on San Francisco to receive training, test the modules, provided feedback for improvements, and implemented a module in their fall semester course. Visit the [Testers](#) page.

Please [contact us](#) if you have questions regarding the project or [staff](#).

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NITLE

home # weblogs # calendar #

National Institute
for Technology & Liberal Education

initiatives tools & research publications & resources partnerships about

Tech News

Midwestern universities battling for domain names

iPod may display videos by fall

IBM launches higher education open project initiative

Digitally simulating society: a new, ambitious project

[more >](#)

Upcoming Events

- Digital Video at ACSTC, June 25-30, 2005
- Media Studies Seminar on Digital Gaming at CET, July

Welcome



The National Institute for Technology and Liberal Education (NITLE) was established in September, 2001, through a grant from The Andrew W. Mellon Foundation, to serve as a catalyst for innovation and collaboration for national liberal arts colleges as they seek to make effective use of technology.

NITLE works with three [regional technology centers](#) to develop an integrated set of programs and projects that enhance teaching, learning, scholarship, and information management for 81 colleges.

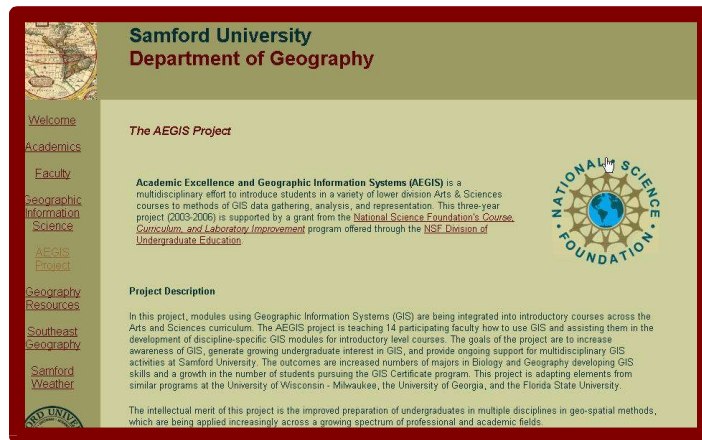
NITLE Holds Fourth Al-Musharaka Seminar

Eleven faculty members and two librarians representing nine colleges and six disciplines joined forces to create shared resource for faculty teaching about Islam, the Arab World, and the Middle East. One group focused on Islam, establishing the framework for a wiki that includes extensive resources and pedagogical considerations. While this group concentrated at the seminar on developing the section on prayer, the nature of the wiki as a collaborative writing space will enable all the members of this group to continue to build on the framework after they return home.

A second group focused on media, and in particular coverage of the war in Iraq. They used NITLE's Colloquium software to create a [learning object](#) on framing war news.

Other GIS Curriculum Development Projects

AEGIS Project Eric Fournier Samford University



Samford University
Department of Geography

The AEGIS Project

Academic Excellence and Geographic Information Systems (AEGIS) is a multidisciplinary effort to introduce students in a variety of lower division Arts & Sciences courses to methods of GIS data gathering, analysis, and representation. This three-year project (2003-2006) is supported by a grant from the **National Science Foundation's Courses, Curriculum, and Laboratory Improvement** program offered through the **NSF Division of Undergraduate Education**.

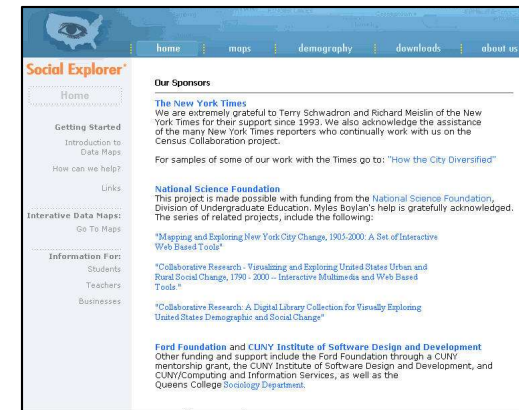
Project Description

In this project, modules using Geographic Information Systems (GIS) are being integrated into introductory courses across the Arts and Sciences curriculum. The AEGIS project is teaching 14 participating faculty how to use GIS and assisting them in the development of discipline-specific GIS modules for introductory level courses. The goals of the project are to increase awareness of GIS, generate growing undergraduate interest in GIS, and provide ongoing support for multidisciplinary GIS activities at Samford University. The outcomes are increased numbers of majors in Biology and Geography developing GIS skills and a growth in the number of students pursuing the GIS Certificate program. This project is adapting elements from similar programs at the University of Wisconsin - Milwaukee, the University of Georgia, and the Florida State University.

The intellectual merit of this project is the improved preparation of undergraduates in multiple disciplines in geo-spatial methods, which are being applied increasingly across a growing spectrum of professional and academic fields.

NATIONAL SCIENCE FOUNDATION

Social Explorer Andrew Beveridge, NYU



Social Explorer

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Our Sponsors

The New York Times
We are extremely grateful to Terry Schwadron and Richard Meislin of the New York Times for their support since 1993. We also acknowledge the assistance of the many New York Times reporters who continually work with us on the Census Collaboration project.

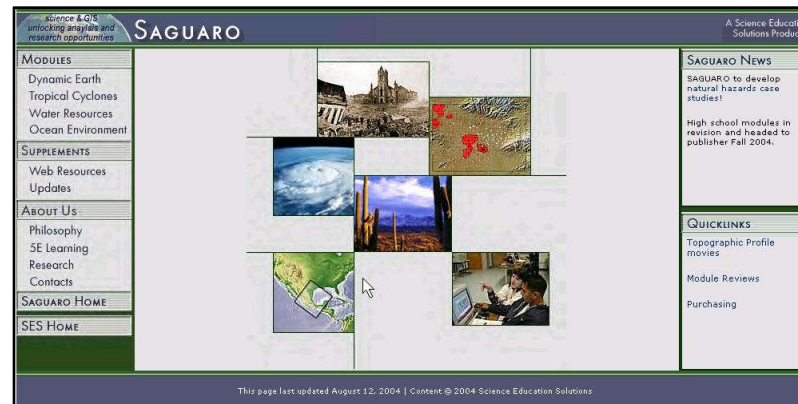
For samples of some of our work with the Times go to: "How the City Diversified"

National Science Foundation
This project is made possible with funding from the National Science Foundation, Division of Undergraduate Education. Myles Boylan's help is gratefully acknowledged. The series of related projects, include the following:

- "Mapping and Exploring New York City Change, 1900-2000: A Set of Interactive Web-based Tools"
- "Collaborative Research - Visualizing and Exploring United States Urban and Rural Social Change, 1790 - 2000 - Interactive Multimedia and Web Based Tools"
- "Collaborative Research: A Digital Library Collection for Visually Exploring United States Demographic and Social Change"

Ford Foundation and CUNY Institute of Software Design and Development
Other funding and support include the Ford Foundation through a CUNY mentorship grant, the CUNY Institute of Software Design and Development, and CUNY Computing and Information Services, as well as the Queens College Sociology Department.

Saguaro Project xxx, University of Arizona



science & GIS
unlocking analysis and research opportunities

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MODULES

- Dynamic Earth
- Tropical Cyclones
- Water Resources
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SAGUARO HOME

SES HOME

SAGUARO NEWS

SAGUARO to develop natural hazards case studies!

High school modules in revision and headed to publisher Fall 2004.

QUICKLINKS

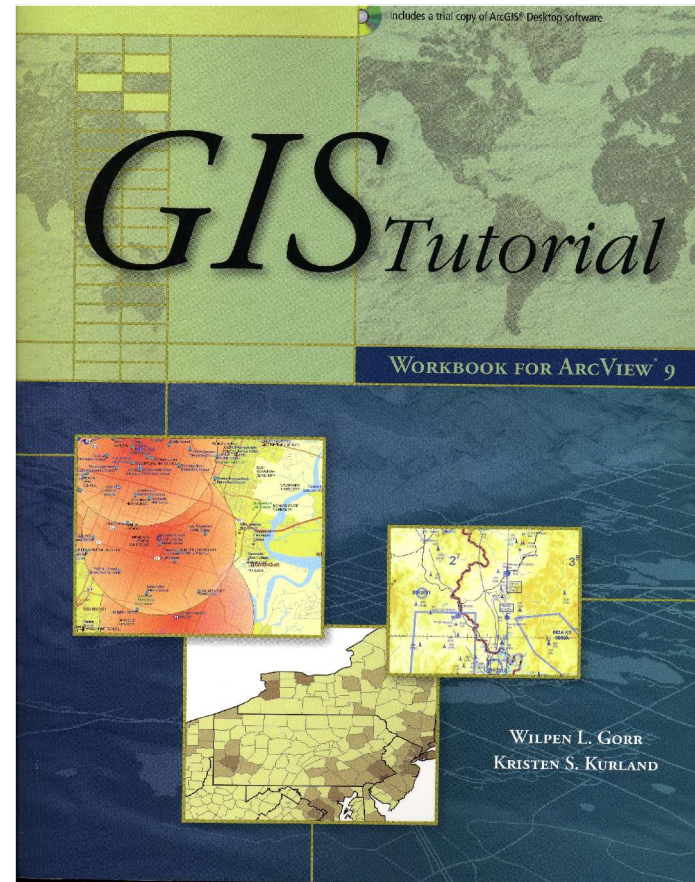
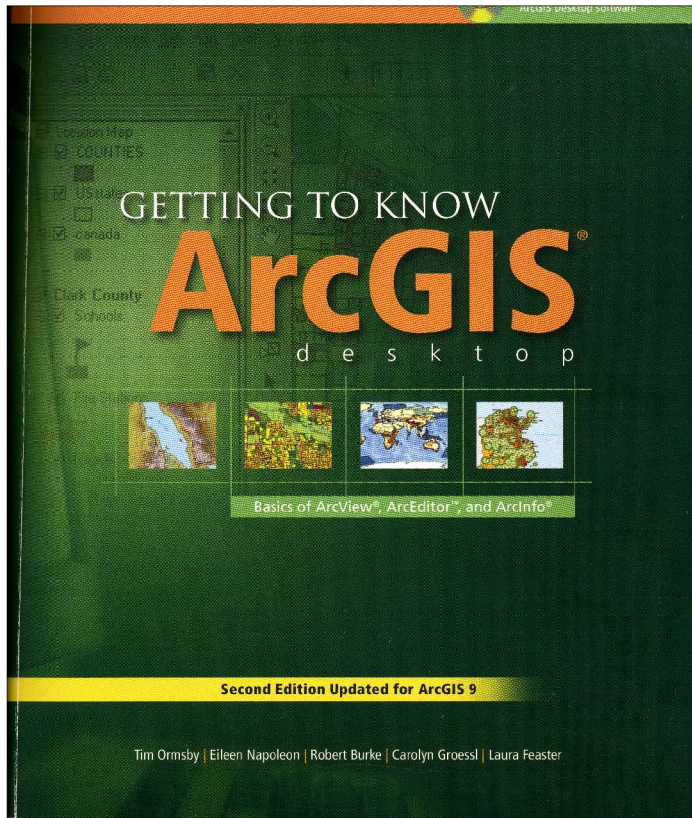
- Topographic Profile movies
- Module Reviews
- Purchasing

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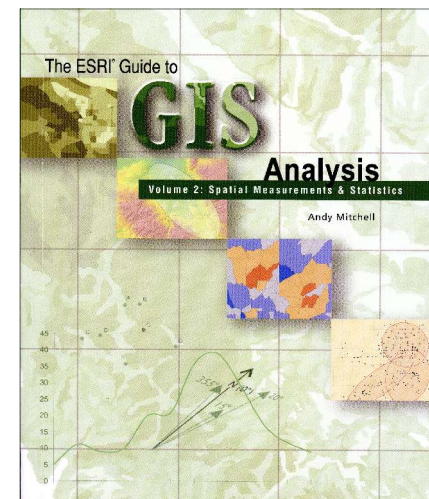
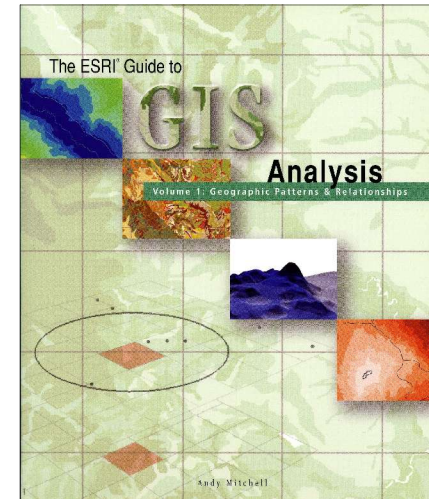
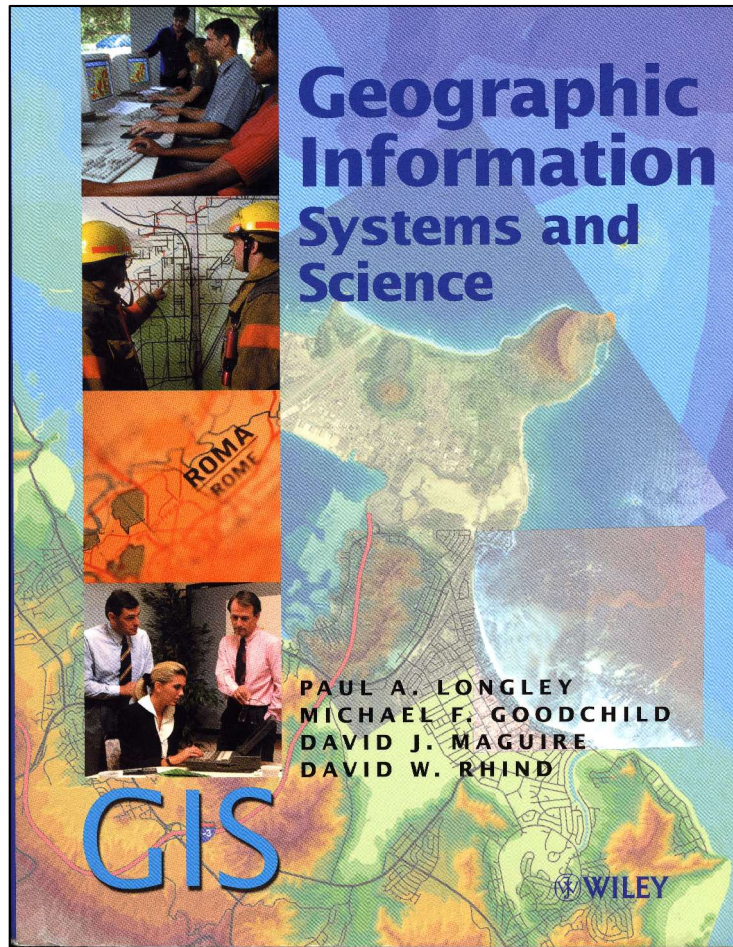
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Tutorials for learning ArcGIS Operations



Textbooks for learning GIS concepts



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ESRI Virtual Campus

The screenshot shows the ESRI Virtual Campus website within a browser window. The browser title is "ESRI Virtual Campus: GIS Education and Training on the Web". The website header features the ESRI logo and the text "ESRI Virtual Campus GIS Education & Training on the Web". A navigation menu includes "Home", "Catalog", "My Campus", "Community", "Library", and "Support".


STARTING POINTS

- [View a Course, Course Catalog](#)
- [See it all now on a map or worksheets](#)
- [Get Free Training](#)
- [Take a Tour](#)
- [Subscriptions](#)

ESRI Global Login

Username:

Password:

 **LOGIN**

- [Contact a Global Campus](#)
- [What's a Global Campus?](#)

Your source for training, research, and education in geographic information systems (GIS).

[About this map](#)

NEW ESRI Virtual Classroom

Find out more about [ESRI's new instructor-led online classes](#)

Now Available

ArcGIS 9 Desktop Software Training
The latest release from ESRI, a complete GIS solution.

[Check out ArcGIS 9 Desktop training options](#)

Live Training Seminars

Presented Live—these [free training seminars](#) are focused lectures on a variety of GIS topics for all levels of users.

October 20: [Introduction to ArcGIS for Developers](#)

Campus News Sep. 16, 2003

515,905 members from 191 countries

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- PENN STATE'S ONLINE GIS CERTIFICATE**
- UNIVERSITY OF Redlands MS GIS PROGRAM**

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Professional Certification



Virtual Campus courses are eligible for educational achievement points awarded by the [GIS Certification Institute](#)

Thank you!

