



Overview

The Department of Geography and Planning at the University of Toledo offers a quality multi-functional program that supplies service at the general educational and baccalaureate level to the university community, provides quality undergraduate and graduate programs, fosters theoretical and applied research in geography and planning, promotes multicultural understanding, complements interdisciplinary work, and engages in community outreach. The department attracts students from a variety of backgrounds with diverse career goals. It welcomes and encourages this diversity as an enriching factor in the lives of both students and faculty.

We have developed an undergraduate and graduate curriculum that reflects balance in the theoretical, technical, and applied aspects of geography with a strong support for new technological and program areas. We provide students with the opportunity to have direct experience in technical support areas and with off-campus internship programs. Upon completion of the program, we expect students to have an in-depth knowledge of the traditions, history, and philosophical underpinnings of the disciplines of geography and planning; have strong micro and internet computer skills in cartography, computer graphics, location analysis, and multivariate analysis; and develop strong research, writing, and communications skills.

The department has a dedicated core of award-winning faculty. The faculty's outstanding research and teaching efforts have been recognized by the University's College of Arts and Sciences, the European Specialty Group of the AAG, the Micro-Computers Specialty Group of the AAG, and the Institute for British Geographers. The Faculty's wide-ranging expertise revolves around 6 major areas of specialization:

- GIS and Spatial Analysis (including location-allocation modeling)
- Urban and Regional Planning
- Urban-Economic Geography
- Environmental Geography/Planning
- Land Use Analysis and Transportation Geography/Planning
- Cultural, Behavioral, and Social Geography
- Remote Sensing

Over the years, the Department of Geography and Planning has maintained a proud tradition of teaching and research excellence. We endeavor to make the student educational experience intellectually rewarding and self-fulfilling. What follows is a more detailed description of the department's mission, goals and objectives; faculty research biographies; research facilities; and the department's economic development and community outreach focus. If you have any questions about our program or would like to visit please drop us a line.

Contact Faculty & Staff

Dr. Patrick Lawrence
Department Chair

Dr. Peter Lindquist
SISS Ph.D Program Coordinator
GIS Certificate Program Director
Director of GISAG Center

Dr. Daniel J. Hammel
M.A. Program Coordinator

Dr. David J. Nemeth
B.A. Program Coordinator

Tammy Golkiewicz
Secretary

Location

2801 W. Bancroft, Toledo, OH 43606-3390
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Snyder Memorial
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Phone: 419.530.2545

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Web

www.utoledo.edu/lss/geography/index.html

Department of Geography & Planning

Degree Programs

The Geography and Planning Department offers both the B.A. and M.A. degrees. It also offers a GIS certificate and is the home department for the Ph.D. in Spatially Integrated Social Sciences.



Bachelor of Arts

The Geography and Planning Department offers an intensive BA program that combines professional work experience with a strong academic curriculum.

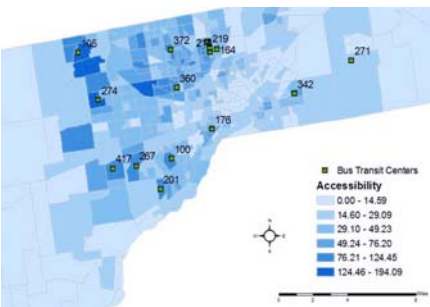
B.A. Program Coordinator - Dr. David J. Nemeth



Master of Arts

Students study issues that are critical to all living beings like global warming, economic development, resource management, land use conflict and population growth, to name a few.

M.A. Program Coordinator - Dr. Daniel J. Hammel



GIS Certificate

This specialized program offers a balance of theory and technical training in the application of Geographic Information Systems (GIS), Remote Sensing, Automated Cartography, and Global Positioning System technologies to problems extending over a wide range of disciplines.

Director - Dr. Peter Lindquist



Ph.D. in Spatially Integrated Social Sciences

The program is housed in the Department of Geography and Planning and is a cooperative effort between the Departments of Economics, Geography & Planning, Political Science & Public Administration and Sociology & Anthropology.

SISS Ph.D Program Coordinator - Dr. Peter Lindquist

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Department Faculty



Bhuiyan Alam
Associate Professor

Transportation Planning,
GIS/Spatial Analysis,
Watershed Management



Kevin Czajkowski
Professor
Director of SATELLITES
Program

Remote Sensing,
Meteorology



Daniel J. Hammel
Professor
M.A. Coordinator

Urban Geography and Housing



Patrick L. Lawrence
Professor
Department Chair

Environmental Geography



Peter S. Lindquist
Associate Professor
Ph.D. Coordinator
Director of GISAG Center
Director of GIS Certificate

Digital Cartography, Location
Analysis, Transportation, Spatial
Analysis, GIS



Neusa McWilliams
Lecturer



David J. Nemeth
Professor
Undergraduate Coordinator

Cultural Geography



Neil Reid
Professor
Director of the Urban Affairs
Center

Economic Geography



M. Beth Schlemper
Assistant Professor

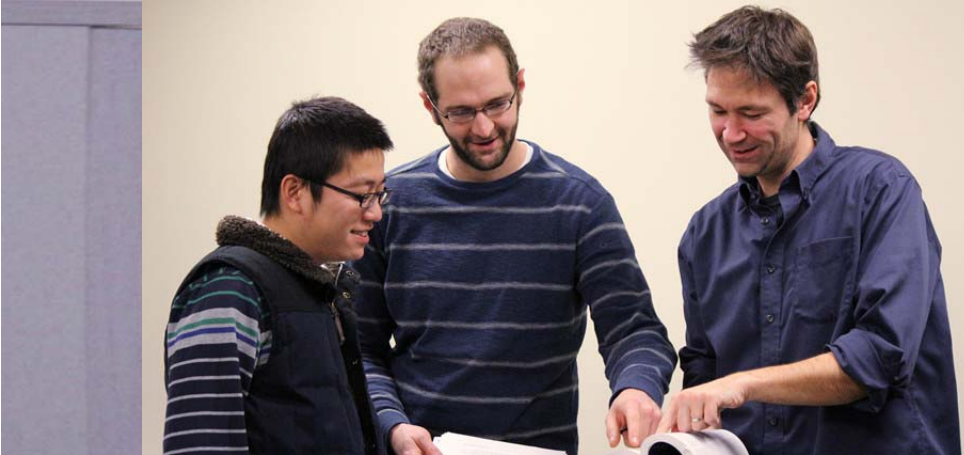
Cultural/Historical Geography,
Geographic Education,
Career and Professional
Development



Sujata Shetty
Associate Professor

Urban Planning and Design

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index.html](http://www.utoledo.edu/lss/geography/index.html)



Multidisciplinary Doctor of Philosophy Degree in Spatially-Integrated Social Science (SISS)

A cooperative venture between the departments of Geography and Planning, Economics, Political Science and Public Administration, and Sociology and Anthropology.

This program designed around the application of geographic information science, spatial statistics, spatial econometrics and spatial analysis to study the spatial dimension of human and social dynamics, including interaction of individuals and society, government, and market participants.

The program encompasses a new body of statistical theory dealing with techniques and topics ranging from spatially-weighted regression analysis to error theory in spatially-distributed data, spatial interpolation and sampling methods, the effects of scale and resolution in geographically distributed data, and the confounding effects of boundary alignment and modifiable areal units in data organization and analysis.

These topics, coupled with spatial information processing technologies--notably in the form of Geographic Information Systems (GIS), remote sensing, digital cartography and related technologies--have served as an important catalyst for this emerging spatio-temporal research paradigm.

This approach is underscored by the Center for Spatially Integrated Social Science (CSISS):

CSISS recognizes the key role space plays in human society, and promotes research that advances our understanding of spatial patterns and processes. Cartographic visualization, geographic information systems (GIS), pattern recognition, spatially sensitive statistical analysis, and place-based search methodologies are the tools of spatially integrated social science (SISS) used to integrate knowledge across disciplines and paradigms. From research design to the interpretation of research findings, the use of SISS can advance understanding in nearly every domain of the social and behavioral sciences* (CSISS, 2003)

Examples cited by the Center for Spatially Integrated Social Science (CSISS) and by Goodchild, et al.**, of major topics which transcend disciplinary boundaries and follow the spatio-temporal model. Topics are listed as follows***:

Environmental and climate change	Health and disease	Cultural analysis	Urban studies
Social and economic inequality	Transportation	Criminal justice	Economic development
Social and business networks	Political redistricting	Community studies	Economic restructuring

* CSISS, 2003. CSISS: Center for Spatially Integrated Social Science Web Site (www.csisss.org). 2001-2003 by Regents of University of California, Santa Barbara

** Goodchild, M.F., L. Anselin, R.P. Appelbaum, and B.H. Harthorn. 2000. Toward Spatially Integrated Social Science, *International Regional Science Review*, 23(2):139-159.

*** Please consult pp. 142-148 in Goodchild, et al. (2000) and pp. C2-C5 in the CSISS Project Description for a more detailed treatment of these topics including cited work from the social science research literature.

(http://www.csisss.org/aboutus/reports/csisss_descript.pdf)

Core Faculty

Bhuiyan Alam

Kevin Czajkowski

Daniel J. Hammel

Patrick Lawrence

Peter Lindquist

SISS Ph.D Program Coordinator

Neusa McWilliams

David J. Nemeth

Oleg Smirnov

(Department of Economics)

M. Beth Schlemper

Sujata Shetty

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SISS Program Requirements

It is anticipated that this program will require up to four years to complete. All course work will be completed in the first two years in residence. Research and dissertation will take place during the third and fourth year.

Prerequisites:

- M.A. or equivalent in Social Science discipline
- Successful completion of graduate-level multivariate statistics course
- Successful completion of 2 courses in geographic information systems

Degree Requirements:

60 Credits beyond the Bachelor's Degree
36 Course Credits
24 Dissertation Credits

Core Course Requirements:

SISS 7010: Spatial Statistics
SISS 7020: Geographical Information Science in SISS
SISS 8010: Foundations of Spatially Integrated Social Science
SISS 8020: SISS Theory
SISS 8030: Advanced Spatial Data Analysis
SISS 8040: Research Design

Advanced Seminar Courses (Select 3)

SISS 7030: Geo-Computation
SISS 8150: Advanced Qualitative Analysis in SISS
SISS 8160: Policy Evaluation and SISS
SISS 8170: Space and Society: Critical Theory in SISS
SISS 8180: Discrete Choice Spatial Process Modeling
SISS 8190: Advanced Modeling Methods and Techniques in SISS
SISS 8200: Spatial Perspectives on the Environment
SISS 8210: Spatial Transport Modeling and Planning
SISS 8920: Directed Readings in SISS
SISS 8940: Seminar in Special Topics
SISS 8960: Doctoral Dissertation

Elective Courses (Select 3)

Select from list of electives offered by the four participating departments: Geography and Planning, Economics, Political Science and Public Administration, Sociology and Anthropology.

Spatially-Integrated Social Science (SISS) Admissions

Prospective students can apply to the program through the College of Graduate Studies at:

https://apply.utoledo.edu/prod/bwskalog.p_displinnew

The following materials must be submitted for application to the program:

- Graduate School Application Form
- Graduate Record Examination scores
- 3 letters of recommendation
- Transcripts
- Statement of Purpose (two pages with guidelines)
- TOEFL score for international students

When completing the graduate application for admission on the UT College of Graduate Studies Main Campus Applications webpage, students seeking admission to the Doctor of Philosophy in Spatially Integrated Social Science, please choose the following:

College = Arts and Sciences;
Department = Geography and Planning;
Degree = Doctor of Philosophy

In addition to graduate college requirements applicants will be expected to hold a master's degree in a social science discipline, and to have completed graduate level courses in GIS and multivariate statistical analysis.

Funding Opportunities are available for students admitted into the program in the form of both teaching and research assistantships along with waiver of tuition.

Contact SISS Program Coordinator

Dr. Peter S. Lindquist

Associate Professor

Office: SM 3020

Phone: 419. 530. 4287 (Desk)

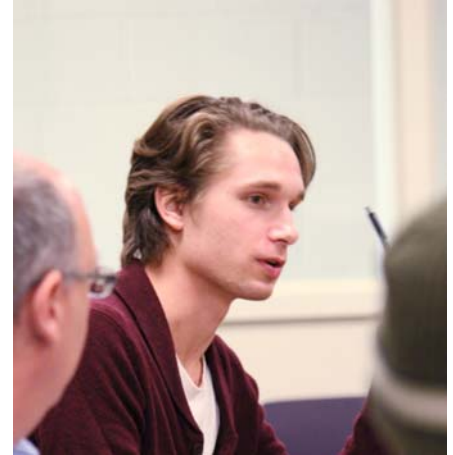
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Ph.D Assistantships in Spatially-Integrated Social Science (SISS)

The Department of Geography and Planning at the University of Toledo has a number of graduate research assistantships available for the spring and fall of 2013. Research opportunities exist in applications to geospatial technologies (Remote Sensing and GIS) in land cover and watershed modeling, temperature changes due to land use change, the impact of the environment on human health studies, GIS system development for intermodal freight transportation planning in the Great Lakes region and upper Midwest, and transportation modeling in a variety of applications.

The department offers Masters Degree in Geography and Ph.D. in Spatially Integrated Social Science. The SISS program is housed in the Department of Geography and Planning and is a cooperative effort between the Departments of Economics, Geography & Planning, Political Science & Public Administration and Sociology & Anthropology.

To apply to the graduate program at the University of Toledo, go to <http://www.utoledo.edu/graduate/> to fill out an application specifying GEPL or SISS or go to [the website of Geography and Planning Department](#) for detailed information. The Department encourages applications from minorities, women, and persons with disabilities. The University of Toledo is an Affirmative Action/Equal Opportunity Employer M/F/D/V.

For more information contact:

Dr. Peter Lindquist
SISS Coordinator

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Core Faculty

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Transportation Planning, GIS/Spatial Analysis, Watershed Management

Kevin Czajkowski
Remote Sensing, Meteorology

Daniel J. Hammel
Urban Geography and Housing

Patrick Lawrence
Environmental Geography

Peter Lindquist
Digital Cartography, Location Analysis, Transportation, Spatial Analysis, Geographic Information Science

Neusa McWilliams
Economic Development

David J. Nemeth
Cultural Geography

Oleg Smirnov
(Department of Economics)
Regional and Spatial Economics

M. Beth Schlemper
Cultural/Historical Geography, Geographic Education, Career and Professional Development

Sujata Shetty
Urban Planning and Design

Website

www.utoledo.edu/lss/geography/index.html



Master of Arts Program in Geography & Planning

Geography is a spatial science that looks at the ways humans interact with their environment in our continuously changing world.

Planning is an applied science based on decision-making, finding usable land and developing communities.

Students study issues that are critical to all living beings like global warming, economic development, resource management, land use conflict and population growth, to name a few.

UT's geography and planning majors use state-of-the-art Geographic Information Systems and Remote Sensing Laboratories that have over twenty-five computers in a networked environment. They conduct research at the Lake Erie Research and Education Center, the Ohio GIS Network and the OhioView Research Consortium on remote sensing. Also, students gain "real-world" experiences through our nationally recognized internship program where they work with planning agencies, community development organizations or companies applying geographic information system technologies.

What to expect when you graduate

Geography and planning graduates find jobs in urban and regional planning, economic and community development, site development, geographic information systems (GIS), market research, location analysis, transportation planning, international business, airline research, travel and tourism, census bureau, intelligence, meteorology, Peace Corps and education.

The Geography and Planning Department offers an intensive MA program that combines professional work experience with a strong academic curriculum.

The Department of Geography & Planning has an applied orientation with approximately 25 MA level graduate students, 25 undergraduate students, and a very successful community based internship program. The Department has an active research agenda with external funding exceeding \$1 million this past year.

The University of Toledo is a comprehensive state institution enrolling approximately 20,000 students with an attractive main campus located in a suburban community.

All graduates students enrolled in the Geography Department's Masters Program are required to take and pass a comprehensive examination after their first year of studies. After completion of the comprehensive exam, the graduate student is then required to complete a Masters Thesis. A thesis committee of at least three professors are selected to help guide the student in the completion of their thesis.

Core Faculty

Bhuiyan Alam

Transportation Planning, GIS/Spatial Analysis, Watershed Management

Kevin Czajkowski

Remote Sensing, Meteorology

Daniel J. Hammel

Urban Geography and Housing
(M.A Program Coordinator)

Patrick Lawrence

Environmental Geography

Peter Lindquist

Digital Cartography, Location Analysis,
Transportation, Spatial Analysis,
Geographic Information Science

Neusa McWilliams

Economic Development

David J. Nemeth

Cultural Geography

M. Beth Schlemper

Cultural/Historical Geography, Geographic
Education, Career and Professional
Development

Sujata Shetty

Urban Planning and Design

Website

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Master of Arts Program Admissions

Prospective students can apply to the program through the College of Graduate Studies at:

https://apply.utoledo.edu/prod/bwskalog.p_disploginnew

The following materials must be submitted for application to the program:

- Graduate School Application Form
- Graduate Record Examination scores (GRE), if a cumulative GPA is less than 2.70 for U.S. students
- 3 letters of recommendation
- Transcripts
- Statement of Purpose (two pages with guidelines)
- TOEFL and GRE score for international students

When completing the graduate application for admission on the UT College of Graduate Studies Main Campus Applications webpage, students seeking admission to the Master of Arts in Geography & Planning, please choose the following:

College = Arts and Sciences;
Major = Geography and Planning;
Degree = Master of Arts

In addition to graduate college requirements applicants will be expected to hold a bachelor's degree.

Funding Opportunities are available for students admitted into the program in the form of both teaching and research assistantships along with waiver of tuition.

Contact M.A Program Coordinator

Dr. Daniel J. Hammel
Professor

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M.A Program Courses

- GEPL 5180 - GIS Application
- GEPL 5210 - Land Use Planning
- GEPL 5490 - Remote Sensing Environment
- GEPL 5500 - Digital Image Analysis
- GEPL 5510 - Geographic Information Systems
- GEPL 5520 - Analytical and Computer Cartography
- GEPL 5530 - Principles of Urban Planning
- GEPL 5550 - Community Economic Development Planning
- GEPL 5570 - Land Development and Planning
- GEPL 5580 - Location Analysis
- GEPL 5600 - Urban Design
- GEPL 5890 - Field Experience
- GEPL 5910 - Directed Research
- GEPL 5920 - Readings in Geography
- GEPL 6100 - Philosophy and Methodology
- GEPL 6150 - Seminar-Research Methods
- GEPL 6160 - Seminar-Spatial Analysis
- GEPL 6170 - Survey Research Methods in Planning and Geography
- GEPL 6190 - Advanced GIS Seminar
- GEPL 6300 - Seminar in Resource Management
- GEPL 6400 - Seminar/Environmental Perception
- GEPL 6530 - Urban/Regional Planning Applications
- GEPL 6550 - Seminar in Environmental Planning
- GEPL 6570 - Seminar in Neighborhood Revitalization
- GEPL 6580 - Urban Development and Housing
- GEPL 6590 - Seminar-Health Care System Design
- GEPL 6700 - Teaching Practicum in Geography
- GEPL 6910 - Problems in Geography
- GEPL 6930 - General Seminar
- GEPL 6940 - Internship in Planning
- GEPL 6960 - Thesis