

## URBAN PLANNING AND POLICY DEVELOPMENT CONCENTRATIONS

### Urban Planning and Policy Development Concentrations

Six issue-oriented concentrations, or specialties, reflect the strengths of the faculty in the Urban Planning and Policy Development program. These concentrations go beyond the broad foundation of the core requirements to explore more deeply the scope of specific planning issues. They allow more detailed examinations of the dimensions, questions, conflicts, and impacts addressed by the professional as well as by the researcher. They encourage recognition of common elements that resonate between and among various problems, policies, and programs.

Courses in each concentration are grouped into “required” and “recommended” categories. The program requires that any student who wants to specialize in a particular area take courses as outlined under each concentration. Additional courses taken in that area will depend upon the student’s particular interest and can be selected, with the help of advisers, from among the listed recommended and relevant courses or from other courses recommended by area advisers.

These concentrations cover areas of substantial strength within the program and school. There also are other feasible concentrations, such as information technology. Students who want to blend two concentrations (simple form required) to design their own programs can do so and should speak with their faculty adviser and the concentration coordinators. Students may also design a custom concentration (simple form required) with their adviser’s support. All required and most recommended courses for these concentrations are offered through the program and other units of the Edward J. Bloustein School of Planning and Public Policy.

Additional recommended courses are offered within the university, in the Departments of Landscape Architecture; Agricultural, Food, and Resource Economics; Ecology, Evolution, and Natural Resources; Environmental Sciences; and Geography, among others. Courses also may be found at Princeton University and New Jersey Institute of Technology. We have reciprocal arrangements with these two schools.

#### *Areas of Concentration*

Design and Development/Redevelopment  
International Development  
Transportation Policy and Planning  
Community Development and Housing  
Environmental and Land Use Planning  
Urban Informatics

## Design and Development/Redevelopment Concentration

### Faculty Advisers

[Tony Nelessen](#) (co-coordinator), [David Listokin](#) (co-coordinator), [Barbara Faga](#), and [Juan Ayala](#)

### Overview

This concentration naturally divides into two tracks: (1) Urban Design and (2) Development /Redevelopment. Because of the natural connections between these two topics, many courses are listed in both tracks. Students may choose to combine these two tracks for a custom concentration.

*Urban Design Track:* The Urban Design track focuses on the visioning, planning and design of neighborhoods and developments. Urban design courses equip students with the skills to create and communicate future forms of urban development/redevelopment. The design sequence provides basic knowledge of urban design principles and practice, as well as site design techniques. The graphics curriculum illustrates basic and advanced skills in graphic production and demonstrates the various graphics behind a successful urban planning project. Students develop the confidence to interact between students, faculty, client and public officials on real-world issues after successfully completing this sequence of courses. Required methods course is Graphical Communication for Planners (34:970:590). Recommended methods courses include Introduction to GIS for Planning and Policy (34:970:591) and Topics in GIS (34:970:592). The Urban Design studio is strongly recommended (*prerequisites of 590, 600 and 601*). Other graduate planning studios covering the following topics are recommended: housing, urban redevelopment, neighborhood revitalization and community development.

### Required Courses (you must take the following courses)

- 34:970:590 Graphical Communication for Planners (1<sup>st</sup> year, fall semester, counts as third Methods Course)
- 34:970:600 Planning and Design I (1<sup>st</sup> year, fall semester, pre- or co- req of 34:970:590)
- 34:970:601 Planning and Design II (1<sup>st</sup> year, spring semester, pre- req of 34:970:600 or approval of instructor)
- 34:970:606 Real Estate Finance and Investment Analysis (fall course)

### Recommended Courses (choose additional course to bring the total to 5)

- 34:970:592 Advanced Graphical Communication (Fall)
- 34:970:508 Comprehensive Planning (Spring)
- 34:970:521 Historic Preservation (Spring)
- 34:970:523 Environmental Law and Policy (Spring)
- 34:970:552 Transportation and Environment (Fall, alt years)
- 34:970:551 Transportation and Land Use (Spring)
- 34:833:572 Negotiation and Conflict Resolution (Spring)
- 34:970:520 Planning and Land Use Administration (Spring)
- 34:970:622 Urban Redevelopment (Fall)
- 34:970:572 Green Building (Fall, alt years)
- 34:970:602 Zoning for Urban Planning (Fall)
- 34:970:604 Land Development Practice (Spring, not offered in 2019)
- 34:970:620 Energy Sustainability and Policy (Spring)

Design and Development/Redevelopment Concentration continued.

*Development/Redevelopment Track:* A broad understanding of real estate development and redevelopment, including land, building, market and financial analysis, particularly in the United States, is gained through a sequence of courses in development/redevelopment planning and practice; real estate, finance, investment; and development impact analysis. The track meets the needs of students with varying interests, including planning for development/redevelopment, real estate market research and analysis, real estate finance and investment analysis, and relating land use planning and controls to the private development process. It is strongly recommended that students take at least one studio in urban redevelopment, neighborhood revitalization, urban design, housing, or community development,

**Required Courses:** (you must take at least three of the following courses, the first two courses listed are highly recommended)

- 34:970:604 Land Development Practice (Spring)
- 34:970:606 Real Estate Finance and Investment Analysis (Fall)
- 34:970:520 Planning and Land Use Administration (Spring)
- 34:970:521 Historic Preservation (Spring)
- 34:970:563 Community Development (Fall)
- 34:970:622 Urban Redevelopment (Fall)
- 34:970:572 Green Building (Fall, alt years)

**Recommended Courses** (choose additional courses to bring the total to four)

- 34:970:508 Comprehensive Planning (Spring)
- 34:970:600 Planning and Design I (Fall, pre- or co-req of 34:970:590)
- 34:970:601 Planning and Design II (Spring, pre-req of 34:970:600)
- 34:970:529 Principles of Housing (Fall)
- 34:970:528 Housing Economy and Markets (Spring, alt years)
- 34:970:XXX History and Theory of Urban Redevelopment (Spring, alt years)
- 34:970:562 Community Economic Development (Spring)
- 34:970:562 Negotiation and Conflict Resolution (Spring)
- 34:970:523 Environmental Law and Policy (Spring)
- 34:970:602 Zoning for Urban Planning (Fall)
- 34:833:540 State & Local Public Finance (Fall)

**Additional Courses at Rutgers University** (may substitute for any recommended course at Bloustein, with coordinator's approval)

Students should check courses in these (and other) programs: Cultural Heritage and Preservation Studies (CHAPS) at Rutgers, New Brunswick; real estate program at the Rutgers Business School, Newark; design in the Department of Landscape Architecture at Rutgers, New Brunswick (design background required).

#### Graduate Certificates

Students in this concentration may be interested in the graduate certificates in Historic Preservation, Real Estate Development and Redevelopment and Geospatial Information Science. Contact your faculty advisor for more information.

## International Development Concentration

### Faculty Advisers

[Radha Jagannathan](#) and [Hal Salzman](#) (Co-coordinators), [Hooshang Amirahmadi](#), [Mi Shih](#), [Meredeth Turshen](#), [Francis Barchi](#), [Michael Lahr](#), [Ronald Quincy](#)

### Overview

This concentration prepares students to effectively frame and engage with the dynamic challenges of designing and implementing plans and public policies in regional and international settings, with particular focus on urbanization and human settlement systems. Specific topics include the interplay of development and the presence and absence of political stability, social cohesion and social movements, economic equity, environmental sustainability, the spatial concentration of economic activity, inter-industry linkages, technology transfer, sustainable development, green economic growth, Sustainable Development Goals, and cross-boundary movement of people, trade, capital, and information. Students must take two of the required courses and at least four within the concentration.

### Required Courses (you must take at least two of the following courses)

34:970:530 International Urbanization and Housing Issues (Fall)  
34:970:633 Demography and Population Studies (not offered 18-19)  
34:970:644 International Economic Development (Fall, Spring)  
34:970:645 Regional Development (Fall)

### Recommended Courses (choose an additional two courses to bring the total to four)

34:970:522 International Historical Preservation (Spring)  
34:970:609 Social Policy in Developing Nations (not offered 18-19)  
34:970:646 International Infrastructure Development (Spring)  
34:832:540 Global Public Health (Fall)  
34:832:516 Contemporary Issues in Women's Health (Spring)

### Substitutable Electives (One of these courses may be substituted for any of the recommended courses listed above)

16:070:506 Research Design and Methods in Cultural Anthropology (Spring)  
16:790:536 International Law and the United Nations (Political Science) (Fall, Spring)  
16:790:580 Global Environmental Politics and the United Nations (Political Science) (Fall)  
19:910:545 Global Social Work and Social Development (Social Work) (Spring)  
19:910:549 Latinos: Culture, Community and Social Welfare (Social Work) (Spring)  
16:988:535 Gender and Human Rights (Women's Studies) (Spring) 26:475:504 International Law (Global Affairs) (Fall)  
26:478:541 Global Political Economy (Global Affairs) (Fall)  
26:977:617 Urban Systems III: Globalization, International Migration, and Contemporary Cities (Urban Systems) (Fall)

For more information visit [bloustein.rutgers.edu](http://bloustein.rutgers.edu)

International Development and Regional Planning Concentration continued.

Note that since graduate course offerings throughout the University change annually, there may be relevant courses in cognate fields (or at the Woodrow Wilson School at Princeton) which could be approved by one of the faculty coordinators for inclusion in the concentration. Students may also take a Directed Study relevant to their specific interests as one of the recommended courses.

International Development and Global Affairs at the Bloustein School

More information about Global Initiatives at the Bloustein School can be found at <http://bloustein.rutgers.edu/global/>.

The International Development Interest Group (IDIG), was established at the Bloustein School in early 2009 and in 2010 was recognized as a Graduate Student Association. It functions as a forum for the exchange of ideas and information, as well as a platform for collaborative work around various themes and geographies of relevance in planning and policy work in low- and middle-income countries. <http://bloustein.rutgers.edu/idig>

Rutgers Global — formerly Rutgers' Centers for Global Advancement and International Affairs (GAIA Centers) Rutgers Global—formerly known as the Rutgers Centers for Global Advancement and International Affairs (GAIA Centers)—is your destination for the tools and resources you need to advance your global or international experience at Rutgers. Rutgers Global provides Rutgers community members with the opportunities, programs, resources, and services they need to advance their global experience. <http://global.rutgers.edu/>

Other Global Initiatives at Rutgers The Rutgers Initiative on Climate and Society aims to foster collaborative, interdisciplinary research on the human and social dimensions of global climate change. Our ultimate aim is to contribute to effective and equitable courses of action that advance both mitigation of and adaptation to climate change. <http://climatesociety.rutgers.edu/>

## Transportation Policy and Planning Concentration

### Faculty Advisers

[Robert Noland](#) (Co-Coordinator) and [Michael Smart](#) (Co-Coordinator), [Kelcie Ralph](#)

### Overview

The transportation policy and planning concentration provides a broad survey of the field as well as a critical evaluation of current and alternative policies and practical application of planning methods. Urban transport systems are examined in the context of environmental, energy, safety, equity, financial, and health impacts. Particular focus is placed on public transit planning, non-motorized modes such as walking and bicycling, environmental issues, and the coordination of land use and transportation planning. Students must take three of the seven core courses, and choose one elective from either the other core courses or from the listing of recommended courses below for a total of four courses. Students are encouraged to consider a Directed Study which may substitute for one recommended course. Recommended methods courses include Introduction to GIS for Planning and Public Policy (34:970:591), Topics in GIS (34:970:592), and Discrete Choice Methods (34:970:630). A graduate planning studio with a transportation focus or component is strongly recommended.

### Required Courses (you must take at least three or four of the following courses)

34:970:550 Introduction to Transportation (Fall)  
 34:970:551 Transportation and Land Use (Spring)  
 34:970:552 Transportation and the Environment (Fall every other year)  
 34:970:553 Methods of Transportation Planning (Spring)  
 34:970:554 Transportation Economics and Finance (Spring, every other year)  
 34:970:556 Bicycle and Pedestrian Planning (Fall, every other year)  
 34:970:558 Public Transit Planning and Management (Fall)  
 34:970:666 Transportation and Equity (Fall, every other year)

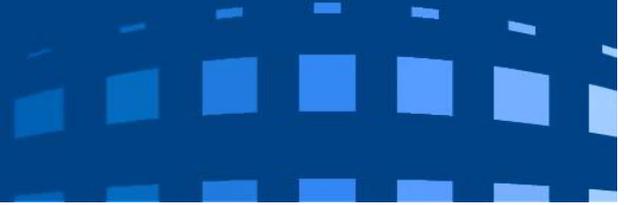
Recommended Courses (additional elective courses to bring total to four). Other courses may satisfy the elective requirement if approved by the concentration coordinators.

*Civil and Environmental Engineering:* (Be aware that course offerings in Civil and Environmental Engineering are subject to change from year to year.)

16:180:531 Traffic Engineering  
 16:180:532 Transportation Planning  
 16:180:533 Traffic Operations  
 16:180:537 Intelligent Transportation Systems  
 16:180:539 Advanced Transportation Economics and Modeling  
 16:180:554 Sustainable Transportation Infrastructure

### *Urban Planning and Policy Development:*

34:970:559 Transportation Risk and Security (Spring)  
 34:970:560 Freights and Ports (Spring)  
 34:970:508 Comprehensive Planning (Spring)  
 34:970:594 Program Evaluation (Fall)  
 34:970:600 Planning and Design I (Fall)  
 34:970:618 Environmental Planning and Management (Fall)  
 34:970:619 Environmental Economics and Policy (Spring, every other year)



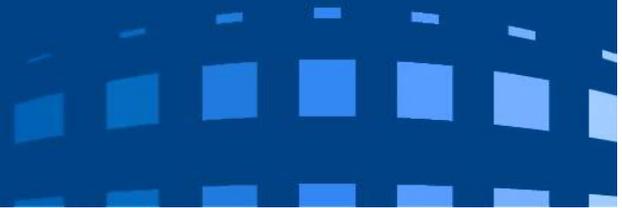
Transportation Policy and Planning Concentration continued.

*Public Policy:*

34:833:633 Big Data Analytics (Spring)

Graduate Certificates

Students in this concentration may be interested in the [Graduate Certificate in Transportation Studies](#) and the [Graduate Certificate in Transportation Management: Vulnerability, Risk, and Security](#). Contact your faculty advisor for more information.



## Community Development and Housing Concentration

### Faculty Advisers

[Kathe Newman](#) (Co-Coordinator), [James DeFilippis](#) (Co-Coordinator), [Radha Jagannathan](#), [Robert Lake](#), [Julia Sass Rubin](#), [Mi Shih](#)

### Overview

The community development and housing concentration exposes students to the practices and theory of community development and housing. Course work examines: the history and practice of community development; the processes that shape urban change; the operations of housing markets and housing finance; the ways in which affordable housing is built and maintained; participatory and community planning methods; issues of gender, race, class, and power; and social and economic policy formation, implementation, and evaluation. This concentration meets the needs of students with a range of interests including community and community economic development and finance, housing development and rehabilitation, community planning and revitalization, urban poverty, and health. Students take at least two of the required courses and at least four courses total in the concentration. Recommended Methods courses include Qualitative Methods and Program Evaluation. A graduate planning studio in community development is recommended as an additional course.

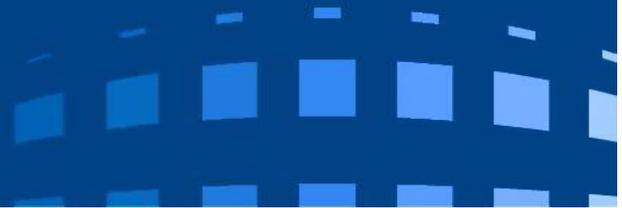
### Required Courses (choose at least two)

34:970:563 Community Development (Spring 2019, Fall 2019)  
34:970:562 Community Economic Development (Spring)  
34:970:529 Principles of Housing (Fall)  
34:970:528 Housing Economics and Markets (Spring, alt years)

### Recommended Courses (choose at least two, which can include the two required courses you did not choose above)

34:970:530 International Urbanization and Housing Issues (Fall)  
34:833:686 Community Organizing (Spring)  
34:970:622 Urban Redevelopment (Fall)  
34:970:XXX History and Theory of Urban Redevelopment (Spring, alt years)  
34:970:606 Real Estate Finance and Investment Analysis (Fall)  
34:970:521 Historic Preservation (Spring)  
34:970:522 International Historic Preservation (Spring)  
**34:970:563 Social Justice, Planning, and Public Policy (Spring, alt years)**  
34:833:585 American Social Policy (Fall)  
34:833:595 Economics of Poverty (Fall)  
34:833:XXX Issues in Income and Wealth Inequality (Spring)  
34:833:XXX Education Policy, Community Development and Social Justice (Spring)  
34:833:612 Non-profit and Community Development Finance (Spring)  
34:833:570 Non-profit Management (Fall)  
34:833:540 State and Local Public Finance (Fall)  
34:970:532 Bridging Public Health and Urban Planning (Spring)  
34:833:513 Issues in Health Disparities (Spring)

For more information visit [bloustein.rutgers.edu](http://bloustein.rutgers.edu)



## Environmental and Land Use Planning Concentration

### Faculty Advisers

[Clinton Andrews](#) (Coordinator), [Michael Greenberg](#), [Frank Popper](#), [Lyna Wiggins](#),

### Overview

This concentration naturally divides into two tracks: (1) Environmental and Human Health Planning and (2) Land Use Planning. Because of the natural connections between these two topics, many courses are listed in both tracks. Students may choose to combine these two tracks for a custom concentration.

This concentration prepares students to plan and manage the human-environment interface. The Environmental and Human Health Planning track focuses on the application of management and policy tools to reduce anthropogenic environmental impacts mitigate natural hazards, and improve human health outcomes. The Land Use Planning track emphasizes land use planning, master planning and zoning regulation at the scale of towns and cities. All students in this concentration will develop fluency with the distinct but interdependent design, regulatory and managerial approaches. Recommended Methods courses include Graphical Communication for Planners (34:970:590), Introduction to GIS for Planning and Policy (34:970:591), and Topics in GIS (34:970:592). At least one graduate planning studio in environmental, comprehensive planning or other physical planning is strongly recommended.

### *Environmental Planning and Policy Track*

#### Required Courses (you must take two of the four following courses)

- 34:970:618 Environmental Planning and Management (Fall)
- 34:970:619 Environmental Economics and Policy (not offered 18-19)
- 34:970:571 Industrial Ecology (not offered 18-19)
- 34:970:619 Bridging Public Health and Urban Planning (Spring)

#### Recommended Courses (choose additional courses to bring the total to four)

- 34:501:520 Population Health (Fall, Spring)
- 34:970:508 Comprehensive Planning (Spring)
- 34:970:667 Planning and Land Use Administration (Spring)
- 34:970:572 Green Building (Fall, alt years)
- 34:970:620 Energy Sustainability and Policy (Spring)
- 34:970:523 Environmental Law and Policy (Spring)
- 34:970:550 Introduction to Transportation (Fall)
- 34:970:553 Methods of Transportation Planning (Spring)
- 34:970:552 Transportation and the Environment (Fall, alt years)
- 34:970:551 Transportation and Land Use (Spring)
- 34:970:556 Bicycle and Pedestrian Planning (Fall, alt years)
- 34:833:572 Negotiation and Conflict Resolution (Spring)
- 34:970:621 Infrastructure Planning (Spring)

### *Land Use Planning Track*

#### Required Courses (you must take both of the following courses)

- 34:970:508 Comprehensive Planning (spring)
- 34:970:667 Planning and Land Use Administration(Spring)

## Environmental and Land Use Concentration Cont'd

**Recommended Courses (choose additional courses to bring the total to four)**

- 34:970:618 Environmental Planning and Management (Fall)
- 34:970:619 Environmental Economics and Policy (not offered 18-19)
- 34:970:622 Urban Redevelopment (Fall)
- 34:970:572 Green Building (Fall, alt years)
- 34:970:602 Zoning for Urban Planning (Fall)
- 34:970:600 Planning and Design I (Fall)
- 34:970:601 Planning and Design II (Spring)
- 34:970:606 Real Estate Finance and Investment Analysis (Fall)
- 34:970:521 Historic Preservation (Spring)
- 34:970:523 Legal Aspects of Environmental Planning (Spring)
- 34:970:550 Introduction to Transportation (Fall)
- 34:970:553 Methods of Transportation Planning (Spring)
- 34:970:552 Transportation and the Environment (Fall, alt years)
- 34:970:551 Transportation and Land Use (Spring)
- 34:833:572 Negotiation and Conflict Resolution (Spring)
- 34:970:604 Land Development Practice (Spring, not offered 2019)
- 34:970:563 Community Development (Spring 2019, Fall 2019)
- 34:970:529 Principles of Housing (Fall)
- 34:970:621 Infrastructure Planning (Spring)

## Upper Division Undergraduate and Graduate Courses in Other Departments

*Geography (Courses labeled Geography Seminar are offered on an occasional basis)*

- 16:450:370 Climate Change and Society
- 16:450:491 Geographic Problems: Science in Shore Line Management
- 16:450:404 Advanced Physical Geography: Biogeography
- 16:450:508 Environment and Development
- 16:450:510 Water Resources Management
- 16:450:605 Geography Seminar: Environmental Change Topics
- 16:450:606 Geography Seminar: Integrated Land Use Change
- 16:450:612 Natural Hazards (co-listed as undergrad course 01:450:311)

### *Landscape Architecture*

- 11:372:444 Watershed Management: An Interdisciplinary Perspective
- 11:550:431 Advanced Landscape Architecture (studio course, requires design some design background, topics vary)

### *Environmental Science*

Students with appropriate backgrounds (chemistry and calculus typically required) should consider these courses (and others) in the Department of Environmental Science.

- 16:375:530 Hazardous Waste Management
- 16:375:534 Environmental Sustainability: Life-Cycle Assessment Tools

### Graduate Certificates

Students in this concentration may be interested in Graduate Certificate Programs. Of potential interest are Human Dimensions of Environmental Change, Historic Preservation, Coastal Climate Risk and Resilience, Energy and Geospatial Information Science. Contact your faculty advisor for more information.

## Urban Informatics Concentration

### Faculty Advisers

[Clinton Andrews](#) (Coordinator), [Lyna Wiggins](#), Frank Felder, Robert Noland, Michael Smart, Juan Ayala

### Overview

Evidence-based decision making in urban planning requires the use of advanced computational tools and data management techniques that can evaluate the data generated in public settings. This concentration provides the vehicle for educating this new cross-trained professional cohort by providing competencies needed in urban informatics: context, statistics, programming, data management, data analytics, visualization, spatial analysis, applications and integration of skills.

### Prior Preparation

This concentration is suitable for students with undergraduate degrees in any field. Applicants must demonstrate competency in one or more programming languages and skills in data management (with coursework, work experience, or by examination). Basic Quantitative Methods and Planning Methods may be taken concurrently with concentration courses. Students with appropriate backgrounds may substitute more advanced courses for topics already mastered (see Methods Flowchart and consult with your adviser).

### Required Courses (you must take the following three courses)

34:970:502 Theory and Practice of Public Informatics (fall)  
34:833:633 Data Analytics: Using Big Data (spring, either Applied Multivariate Methods (34:970:527) or Discrete Choice (34:970:630) is required prior to taking Data Analytics)  
34:970:591 Intro to GIS for Planning (fall and spring)

### Recommended Courses (choose additional course to bring the total to four)

34:970:590 Graphical Communication for Planners (fall and spring)  
34:970:659 Advanced Graphical Communication for Planners (fall)  
34:970:592 Topics in GIS (spring 2019, fall 2019)  
34:970:607 Communicating Quantitative Information (fall)  
34:970:527 Applied Multivariate Methods (fall, spring)  
34:970:630 Discrete Choice Methods (spring)  
34:833:635 Survey Research (every other year – check grid)  
16:450:615 Seminar in Remote Sensing (spring, every other year)  
or other courses as pre-approved by your advisor

Students in this concentration are encouraged to arrange a directed/independent study with a member of the faculty or research staff that allows them to complete a serious urban informatics project.

### Graduate Certificates

Students in this concentration may be interested in the Graduate Certificate in Geospatial Information Science. Contact your faculty advisor for more information.