CITY AND REGIONAL PLANNING (CPLN)

CPLN 300 The Making of Modern Paris
Paris, Ville-Lumiere, has long been renowned for its urbanity, architecture, and city design. This class will trace the people, ideas, and projects that contributed to this reputation, through an exploration of the city's built environment as expressed in literature and urban planning projects of the 19th and 20th centuries. Literary readings, including texts by Hugo, Baudelaire, Zola, and Breton, will be studied in conjunction with historical writings and projects ranging from works by Napoleon III and Haussmann to Mitterrand and Sarkozy. The course includes a field trip to France's capital city during Penn's Spring Break. Co-taught by Professors Eugenie Birch (Department of City and Regional Planning) and Andrea Goulet (Department of Romance Languages). Student travel expenses will be subsidized by the Mellon Foundation-sponsored Humanities + Urbanism + Design Project.
Taught by: Birch
Course usually offered in spring term
Activity: Seminar
1 Course Unit

CPLN 500 Introduction to City Planning: Past, Present and Future
Orientation to the profession, tracing the evolution of city and regional planning from its late nineteenth century roots to its twentieth century expression. Field trips included.
Taught by: Vitiello or Ammon
Course usually offered in fall term
Also Offered As: URBS 440
Activity: Lecture
1 Course Unit

CPLN 501 Quantitative Planning Analysis Methods
Introduction of methods in analyzing demographic conditions, land use and housing trends, employment and business changes, community and neighborhood development. Focus on using spreadsheet models and data analysis for local and neighborhood planning.
Taught by: Guerra
Two terms. student may enter either term.
Activity: Lecture
1 Course Unit

CPLN 502 Urban Redevelopment and Infrastructure Finance
Introduces students to the economic principles and vocabularies that city and regional planners rely on (those of welfare and public sector economics, land economics, and the economics of housing and neighborhoods), and familiarizes them with local government taxation, budgeting and borrowing practice.
Taught by: Angelides
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 503 Modeling Geographical Objects
This course offers a broad and practical introduction to the acquisition, storage, retrieval, maintenance, use, and presentation of digital cartographic data with vector-oriented (i.e. drawing-based) geographic information systems (GIS) for a variety of environmental science, planning, and management applications. Previous experience in GIS is not required.
Taught by: Tomlin or Hillier
Course usually offered in fall term
Also Offered As: MUSA 503
Activity: Lecture
1 Course Unit

CPLN 504 Site Planning
This course introduces students to the practice of site planning. Skills and methods examined in the course include observation of the physical and community environment, physical and environmental site inventorying and analysis; analysis of alternative site programming and uses; site design processes and strategy; and the creation of site plans and development standards. Methods of community participation and collaboration with other disciplines will be explored. The spring version of this course differs from the fall version in its orientation toward urban designers and/or those with prior design backgrounds and skills.
Taught by: Page
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 505 Planning by Numbers
This class emphasizes the theory, practice, and use of statistics as applied to planning and policy problems and data. Starting with a review of basic descriptive statistics and measures of association, this course will introduce students to the regression techniques, including multiple regression analysis and logistical and probabilistic models for categorical data; data mining techniques, measures of spatial autocorrelation, and time-series modeling; and causal inference techniques, including structural equation modeling (SEM). A basic familiarity with descriptive and inferential statistics at the upper-division undergraduate level is expected at the beginning of the class. This course uses the popular, free, and open source statistical software R. Meets methods breadth requirement.
Taught by: Ryerson
Course usually offered in spring term
Activity: Lecture
1 Course Unit
CPLN 506 Negotiation and Conflict Resolution
This course is designed to introduce graduate students to the theory and practice of negotiation, conflict resolution and community engagement. We will start by looking at basic approaches to interpersonal negotiation and then move to considering contemporary approaches to understanding and addressing public disputes using negotiation, facilitation and public involvement. Design professionals - architects, construction managers, planners and others - face a variety of kinds of problems and challenges in their work. Some problems and challenges, whether simple or complex, are amenable to technical solutions based solely on the expertise of planners, managers, architects and others. There are, however, other problems and challenges that require adaptive work, primarily because technical expertise alone is insufficient to address the problems or challenges being faced. In this course, we will focus on perspectives and methods for working through those later sorts of problems and challenges. Meets methods breadth requirement.
Taught by: Sokoloff
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 507 Urban Design Research Methods
This seminar focuses on professional and research techniques in the practice of urban design. Seminar topics in the first half will examine research methods associated with measuring, analyzing and guiding design in urban contexts, including: environmental behavior & psychology, cognition, mapping, morphology, design regulation and policy. The second half of the course includes professional techniques in: communication, self-representation, design roles, processes, and ethics.
Taught by: Al
Course usually offered in fall term
Activity: Lecture
1 Course Unit

CPLN 508 Urban Research Methods
This new course will introduce students to the practice of conducting original social, policy, and planning research in an urban context, and through a series of applied exercises, cover the following topics: research conceptualization and design, logic models, survey and ethnographic research, urban policy analysis and evaluation.
Activity: Lecture
1 Course Unit

CPLN 509 Law of Planning and Urban Development
The central focus will be on selected aspects of the field of the law of planning and development, a field that embraces a range of legal doctrines that are particularly relevant to cities and suburbs. We will study the principles that govern the regulation of land use and management of urban growth (through land use controls and other techniques for regulating new development) and, to a limited extent, environmental planning laws.
Taught by: Keene
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 510 Urban and Planning Theory
Exploration of the representational tasks related to planning cities and regions. Review of the construction, management and reconciliation of contesting images.
Taught by: Landis
Course usually offered in fall term
Activity: Lecture
1 Course Unit

CPLN 520 Introduction to Community and Economic Development
Introduction to the theories and practices of urban economic and community development with a focus on improving opportunity and quality of life in low-income communities. Provides foundation for advanced courses in real estate and economic development finance, housing policy, downtown and neighborhood revitalization, workforce development and metropolitan regional development.
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 528 Research Seminar 21st Century Urbanism
Course usually offered in spring term
Also Offered As: URBS 428
Activity: Seminar
1 Course Unit

CPLN 530 Introduction to Land Use Planning
Exploration of the methods and tools for managing land use and shaping the built environment. Presents how to create a successful Comprehensive Plan, Zoning Ordinance, Subdivision Regulations, Capital Improvements Program, and design guidelines. Also, presents functional area, regional, and state-level plans.
Taught by: Daniels
Course usually offered in fall term
Activity: Lecture
1 Course Unit

CPLN 531 Introduction to Environmental Planning & Policy
Overview of federal programs for protecting air quality, water quality, and endangered species along with managing climate change, solid waste, toxics, energy, transportation, and remediating brownfields in an overall sustainability framework. State-level, local government, and NGO efforts to protect the environment are also explored as are green infrastructure and green cities.
Taught by: Daniels
Course usually offered in fall term
Activity: Lecture
1 Course Unit

CPLN 535 Topics in Energy Policy
This research seminar focuses on changing energy policy topics that provide students with a deep examination of an aspect of energy technology, markets, or regulation and an opportunity for research on an emerging issue related to the topic. The seminar meets weekly to discuss the relevant literature and workshop student research projects.
Taught by: Staff.
Also Offered As: ENMG 503
Activity: Seminar
1 Course Unit

CPLN 540 Introduction to Property Development
This course is designed to acquaint students with the fundamental skills and techniques of real estate property development. It is designed as a first course for anyone interested in how to be a developer, and as a foundation for further courses in urban development and real estate.
Course usually offered in fall term
Activity: Lecture
1 Course Unit
CPLN 550 Introduction to Transportation Planning
Survey of the technological and design aspects of urban transportation systems and land use patterns. Covers facilities operations, congestion, environmental concerns and policy debates revolving around mobility issues at the federal, state, and metropolitan levels.
Taught by: Guerra
Course usually offered in fall term
Activity: Lecture
1 Course Unit

CPLN 560 Introduction to Graphics for Urban Design
This course introduces students to visual literacy and the use of a variety of software packages. Through a series of assignments and in class discussions participants develop a visual vocabulary and skills to function in and between AutoCAD, Adobe Creative Suite, and 3D modeling software.
Taught by: Fogelson
Course usually offered in spring term
Activity: Seminar
1 Course Unit

CPLN 561 Sensing the City
This course will teach students how to design, implement, and utilize environmental and built environment sensor and web-based data acquisition systems; how to use those systems to build and populate analytical databases; and how to analyze the resulting data to identify spatial and temporal patterns.
Taught by: Lassiter
Activity: Lecture
1 Course Unit

CPLN 570 Spatial Analysis for Urban and Environmental Planning
This course builds on prior knowledge of GIS and basic statistics to help students to develop GIS and spatial analysis applications for use in urban and environmental planning and management. Each weekly session will focus on a particular analytical approach (e.g., buffering, geo-processing, map algebra, network analysis) as applied to a particular urban or environmental planning tasks (e.g., identification of development opportunities, prioritizing conservation lands, urban growth modeling, housing price modeling). The format of the class includes weekly lectures/in-class demos; and weekly homework assignments. The course will make extensive use of ArcGIS and ArcGIS extensions, especially Spatial Analyst, Network Analyst, and Business Analyst. One-year student versions of ArcGIS and ArcGIS extensions will be available free of charge at the City Planning Office. ArcGIS runs best on Windows machines; those with Macs will need to install a Windows emulator.
Taught by: Steif
Course usually offered in fall term
Also Offered As: MUSA 507
Prerequisite: MUSA 501 or CPLN 503 or equivalent
Activity: Lecture
1 Course Unit

CPLN 580 Techniques of Urban Economic Development
This course is about how planners act to catalyze and support economic well-being in cities and regions. Students in the course examine the effectiveness of alternative strategies and approaches to economic development and practice a variety of specific economic development policy and finance techniques. The semester is divided into three modules. In part one, students build knowledge about how theories of growth, specialization, agglomeration and innovation inform (and fail to inform) economic development strategies. In part two, they develop a working understanding of economic development finance, completing exercises on tax increment finance, tax-credit financed development and “double bottom line” lending and equity investment. In part three, they review best practices in the formulation and negotiation of location incentives and subsidies, examine “growth with equity” policies, and explore the technical and political details of economic impact analysis.
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 590 Spatial Analysis for Urban and Environmental Planning
This course builds on prior knowledge of GIS and basic statistics to help students to develop GIS and spatial analysis applications for use in urban and environmental planning and management. Each weekly session will focus on a particular analytical approach (e.g., buffering, geo-processing, map algebra, network analysis) as applied to a particular urban or environmental planning tasks (e.g., identification of development opportunities, prioritizing conservation lands, urban growth modeling, housing price modeling). The format of the class includes weekly lectures/in-class demos; and weekly homework assignments. The course will make extensive use of ArcGIS and ArcGIS extensions, especially Spatial Analyst, Network Analyst, and Business Analyst. One-year student versions of ArcGIS and ArcGIS extensions will be available free of charge at the City Planning Office. ArcGIS runs best on Windows machines; those with Macs will need to install a Windows emulator.
Taught by: Steif
Course usually offered in fall term
Also Offered As: MUSA 507
Prerequisite: MUSA 501 or CPLN 503 or equivalent
Activity: Lecture
1 Course Unit

CPLN 600 Planning Workshop
Application of planning skills (including community inventorying and reconnaissance, goal articulation; alternatives creation and analysis, and plan development and implementation) to community plan creation. Students work in groups of seven to eight students each. Juried presentation required.
Taught by: Landis
Course usually offered in spring term
Activity: Studio
2 Course Units

CPLN 601 Metropolitan Food System
This course introduces students to the planning and development of metropolitan food systems. Major topics include regional planning and policy; sustainable agriculture; food access and distribution; and markets. The class includes a mix of lectures, discussion, and field trips; and students will work on real-world projects in Philadelphia. Ultimately, the course aims to develop students’ broad knowledge of food systems planning in the global North and South, with an emphasis on community and economic development strategies for sustainable food systems and food security.
Taught by: Vitiello
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 620 Community Development and Public Health
This course will focus on the intersection of city planning and public health by looking closely at the role of the built environment in health. We will cover such topics as food access, physical activity, walkability, bike-ability, air quality, water quality, community engagement, outdoor media and health communication. We will learn how to conduct Health Impact Assessments (HIA) - screening, scoping, assessments, recommendations, reporting, and monitoring - and to use various environmental audit tools to measure the built environment. Our final projects will involve working with local government and nonprofit agencies to conduct applied health research projects.
Taught by: Hillier
Course usually offered in spring term
Also Offered As: PUBH 515
Activity: Lecture
1 Course Unit
CPLN 624 Race, Poverty and Place
In recent years, long-disinvested cities have become the site of renewed investment, population growth, and economic development in a phenomenon often described as gentrification. Nonetheless, socioeconomic inequality between races, ethnicities, genders, and places within the larger metropolitan area continue to persist, suggesting that a rising tide does not raise all boats. Planners must grapple with these issues of inequality and inequity, particularly the implementation of plans and policies that may in theory provide benefits to all, but in practice continue to accumulate benefits for a select few. This course examines the construction of race, the making of a place, and the persistence of poverty in racialized places in the city. This course will engage in a critical discussion of the aforementioned themes, such that the normative notions of race, capitalism, urbanism, gender, power, and space are upended to privilege more marginalized perspectives of these processes.
Taught by: Drake-Rodriguez
Course usually offered in spring term
Activity: Seminar
1 Course Unit

CPLN 625 Housing & Community Development Policy
This course offers an exploration of how legislative action, government policymaking, and citizen advocacy influence plans for the investment of public capital in distressed urban neighborhoods. Course topics this semester will include an evaluation of the results of City of Philadelphia development policies under the administration of former Mayor Michael A. Nutter, as well as consideration of plans being undertaken by the administration of Mayor James F. Kenney, who took office in January. The course will also include an assessment of a large-scale property acquisition and development strategy being implemented by the Philadelphia Housing Authority in North Philadelphia and a review of recent and current reinvestment proposals for Camden's waterfront and downtown-area neighborhoods.
Taught by: Kromer
Also Offered As: GAFL 569, URBS 451
Activity: Lecture
1 Course Unit

CPLN 630 Innovations in Growth Management
The US population is expected to grow by more than 85 million from now to 2050. This course evaluates the tools and techniques for managing growth in America, especially to control sprawl in metropolitan regions. The course analyzes the form and functions of the central cities, suburbs, edge cities, exurbs, and megaregions. Federal, state, and local programs that influence metro change are evaluated. Regional planning approaches are analyzed in case studies.
Course usually offered in spring term
Prerequisite: CPLN 530 or CPLN 531
Activity: Lecture
1 Course Unit

CPLN 631 Planning for Land Conservation
Land preservation is one of the most powerful, yet least understood planning tools for managing growth and protecting the environment. This course provides an introduction to the tools and methods for preserving private lands by government agencies and private non-profit organizations (e.g., land trusts). Topics include purchase and donation of development rights (also known as conservation easements), transfer of development rights, land acquisition, limited development, and the preservation of urban greenways, trails, and parks. Preservation examples analyzed: open space and scenic areas, farmland, forestland, battlefields, and natural areas.
Taught by: Daniels
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 632 Modeling Geographic Space
The major objective of this course is to explore the nature and use of image-based (as opposed to drawing-based) geographic information systems (GIS) for the analysis and synthesis of spatial patterns and processes. This course is open to all. Previous experience in GIS is not required.
Taught by: Tomlin
Course usually offered in spring term
Also Offered As: LARP 741
Activity: Lecture
1 Course Unit

CPLN 633 Ecological Principles for Planners
This course will provide an overview of ecology and the environmental sciences, focusing on issues important to practicing land use and environmental planners. It will combine both lectures and on-site practical experience. The latter will entail analyses of basic environmental factors, including soils, water and biodiversity. Topics to be covered will include species taxonomy and biodiversity, population and community ecology, ecosystem energetics, soil structure and function, nutrient movement, hydrology, plant ecology and physiology, and animal ecology.
Taught by: Hewitt
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 635 Water Policy
Aging infrastructure, urbanization, climate change, and limited public funds are contributing to urban water management crises in cities around the globe. This course examines the systems and policies that comprise urban water. We begin with the infrastructures that underlie drinking water, wastewater, and stormwater services. Then, we review innovative management technologies and strategies, focusing on case studies of infrastructure shifts in Philadelphia and Melbourne. Finally, we undertake a global investigation of water management challenges and opportunities.
Course usually offered in spring term
Activity: Lecture
1 Course Unit
CPLN 641 Progressive Development
Using a lecture/guest lecture/case study approach, this course will teach students how to plan, develop, and finance a variety of progressive real estate development forms including affordable housing; infill, mixed-use and brownfield development transit-oriented development; green and LEED-certified office and housing development; historic preservation projects; public-private partnerships; and suburban retrofit and master-planned-community development. In each case, we will consider site acquisition, entitlement, market and marketing conditions, financing options, ownership and deal structures, ongoing operation and asset management issues; and connections to the community. Sessions will include lectures as well as case study presentations by guest developers and students.
Taught by: Landis
Course usually offered in spring term
Prerequisite: CPLN 540 or REAL 821
Activity: Lecture
1 Course Unit

CPLN 642 Downtown Development
The course will provide an overview of the changing role of downtowns and commercial centers, how and why they have evolved, diversified and been redeveloped and who are the various public and private actors that are helping them reposition themselves in a new regional and global context. There will be a strong focus on implementation, on how things get done, on the role of business improvement districts, not-for-profit development corporations and local government in the United States, Canada and a few international cities.
Taught by: Levy
Course usually offered in fall term
Activity: Lecture
1 Course Unit

CPLN 643 Design and Development
This newly reconstituted course will introduce designers and planners to practical methods of design and development for major real estate product types. Topics will include product archetypes, site selection and obtaining entitlements, basic site planning, programming, and conceptual and basic design principles. Project types will include, among others; infill and suburban office parks, all retail forms, campus and institutional projects. Two-person teams of developers and architects will present and discuss actual development projects.
Taught by: Sehnert
Course usually offered in spring term
Also Offered As: ARCH 762
Activity: Lecture
1 Course Unit

CPLN 644 Neighborhood Change & Equitable Development
The government intervenes in housing markets in different ways and for different reasons. This course is designed to explore why the federal and local government in the U.S. intervene in housing markets and what forms these interventions take. Specifically, students will learn about: the mechanisms that drive both the supply and demand for housing; how U.S. housing policy has changed over time; factors that affect the production, distribution, and location of housing; the social and economic impact of housing on households and neighborhoods; the equity implications of housing policies. This course will place particular emphasis on low-income rental housing. By the end of this class students will have a firm understanding of U.S. housing policy and be able to engage in a meaningful debate about future challenges and opportunities in the U.S. housing market and the implications of different policy interventions. Ultimately, this course will provide students the conceptual tools necessary to evaluate, formulate, and implement housing policy.
Taught by: Chapple
Course usually offered in fall term
Activity: Seminar
1 Course Unit

CPLN 650 Transportation Planning Methods
This course introduces students to the development and uses of the 4-step urban transportation model (trip generation-trip distribution-mode choice-traffic assignment) for community and metropolitan mobility planning. Using the VISUM transportation desktop planning package, students will learn how to build and test their own models, apply them to real projects, and critique the results.
Taught by: Ryerson
Course usually offered in spring term
Also Offered As: ESE 548
Prerequisites: CPLN 505 or other planning statistics course.
Activity: Lecture
1 Course Unit

CPLN 651 Public Infrastructure & Finance
This class is designed to help you develop the analytical skills necessary to understand and tackle common infrastructure problems in cities around the world, by emphasizing simple but key calculations that will help you focus on the key issues in each system, such as estimating system costs, capacity, and congestion. The first half of the class will focus on planning and engineering issues for systems for water, energy, telecommunications and large-scale transportation infrastructure such as ports and airports, but the overall emphasis will be on developing skills and tools applicable to any system. The second half of the class will focus on financing mechanisms, such as the size and structure of government investment, authority financing mechanisms, user fees, and public-private partnerships.
Taught by: Angelides
Course usually offered in fall term
Activity: Lecture
1 Course Unit
CPLN 652 National Infrastructure Investment Seminar
This fall 2017 research seminar and the accompanying spring 2018 studio will develop and propose a multi-modal transportation infrastructure investment and financing strategy for the United States. During the fall 2017 seminar, students will research key issues associated with infrastructure planning, finance and project delivery, and the history of infrastructure planning in the United States; as well as take a comparative look at infrastructure planning in other OECD countries.
Taught by: Yaro
Course usually offered in spring term
Activity: Seminar
1 Course Unit

CPLN 654 Urban Transit Systems and Technology
This is a graduate-level planning class exploring transit planning practice. The goals of this class are to develop, organize and understand transit related planning issues, and conduct research. The class will emphasize the practice of transit planning, methods, problem definition and problem solving, the collection and manipulation of data to take the greatest advantage of available local and regional resources. Local and regional studies and projects will be used to illustrate the actual work done by transit practitioners to the greatest extent possible. There will also be emphasis on how a transit planner in many different roles will approach their respective jobs.
Taught by: Guerra
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 655 Multimodal Transport
The purpose of this course is to explore contemporary multimodal transportation systems, policy, planning, and practice through a series of comparative international case studies. Topics include innovative parking management in San Francisco, congestion charging in London, Metro investments in Mexico City, informal transportation in Indonesia, Bus Rapid Transit in Bogota, and bicycle infrastructure investments in Copenhagen. The course will also include one or more site visits to innovative multimodal transportation projects in the Philadelphia or New York City regions. By analyzing contemporary planning challenges and best practices, students will develop a better understanding of how the transportation system works and how to design and employ specific multimodal interventions and policies effectively.
Taught by: Guerra
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 660 Fundamentals of Urban Design
This course is a requirement for students enrolled in Certificate in Urban Design and for Master of City Planning students enrolled in the Urban Design concentration. How should urban designers give shape to the city? What urban design methods could they apply? This course helps students acquire the principles that can inform urban design practice. It has three major pedagogical objectives. First, it helps students understand the contemporary city through a series urban design tools. Second, it covers both historical and modern urban design principles. Finally, it includes all the scales in which urban designers operate, ranging from the fundamentals of social interaction in public space, to the sustainability of the region. This course is open to other interested PennDesign students if there is space and with permission of the instructor.
Taught by: Al
Course usually offered in spring term
Also Offered As: LARP 660
Activity: Studio
2 Course Units

CPLN 661 Site Planning
Introduction to the fundamentals of site planning. Includes student presentations of location-specific projects.
Course usually offered in spring term
Activity: Lecture
1 Course Unit

CPLN 670 Geospatial Software Design
The purpose of this course is to equip students with a selected set of advanced tools and techniques for the development and customization of geospatial data-processing capabilities. It is open to any student with experience equivalent to that of an entry-level class on GIS.
Taught by: Tomlin
Course usually offered in fall term
Also Offered As: LARP 743
Activity: Seminar
1 Course Unit

CPLN 671 Big Urban Data Analysis
This course, co-listed with MUSA 501, will introduce graduate planning students to the use of large, spatially-explicit datasets for addressing urban planning and management problems. Among the topics to be included: (1) Real-time data acquisition using web-based and sensing technologies; (2) Data cleaning and organization using the R programming language; (3) Data visualization and exploratory analysis in R; (3) Predictive and causal modeling techniques using large datasets in R; (4) Use of statistical data reduction and machine learning techniques with big data; (5) Derivation and use spatial autocorrelation and other spatial patterning metrics in urban planning applications of big data; (6) Heuristic visualization of analytical and modeling results.
Taught by: Brusilovskiy
Course usually offered in fall term
Also Offered As: MUSA 500
Activity: Lecture
1 Course Unit
CPLN 673 Contemporary Urbanism
This course will expose students to a wide array of case studies in Planning, Urban Design, and Landscape Architecture. They include: notions of sustainable development, the interplay between open space and built form, the rehabilitation of existing areas as historic districts, commercial corridors, and the improvement of squatter settlements. Also, it will focus on city expansions and new towns, housing, mixed-use developments, and areas of new centrality. The program will address as well territorial planning, the improvement of open space systems, and site specific interventions of parks, plazas, streetscape and gardens. Cases will provide the proper ground for analysis and interpretation of issues related to the design and implementation of “good” landscape and urban form. Class discussions will be complemented with short design exercises. We will also enjoy the presence of outstanding visiting lecturers, who will share with us cutting-edge information, derived from their professional practice and research. Registration limited to students in the MLA 602 level; students in the Certificate in Urban Design program and a limited number of MLA students needing to fulfill the Theory III requirement, other PennDesign graduate students must seek permission of the instructor.
Taught by: Gouverneur
Course usually offered in spring term
Also Offered As: LARP 781
Activity: Lecture
1 Course Unit

CPLN 675 Land Use and Environmental Modeling
Planners at every scale and of every type are increasingly using spatial data and models to analyze existing patterns, identify and parameterize key trends and urban processes, visualize alternative futures, and evaluate development impacts. This course will introduce students to various GIS-based land use and environmental planning models, including, among others: TR55 for analyzing parcel-level stormwater runoff; BASINS for analyzing watershed-level stream volumes, runoff, and water quality; HAZUS for analyzing the potential damage impacts of floods, earthquakes, and hurricanes; UPlan and CUF/CURBA for developing detailed urban growth projections; CommunityViz for analyzing, simulating, and visualizing the impacts of proposed development projects; and other packages as available. A basic familiarity with ArcGIS is required.
Taught by: Landsis
Course usually offered in spring term
Prerequisites: Some knowledge of GIS and statistics.
Activity: Laboratory
1 Course Unit

CPLN 676 The Immigrant City
Immigration is among the most important yet controversial forces shaping cities, regions, and neighborhoods. The diversity of immigrant and receiving communities means that the dynamics and impacts of migration are varied and complex. This course examines the development of immigrant and receiving communities in the United States. It surveys public policy and community and economic development practices related to migration at the local, regional, national, and trans-national scale. Class readings, discussions, and visits to Philadelphia’s immigrant neighborhoods explore themes including labor markets, housing experiences, political mobilization, civil society, cultural preservation, and the built environment. The first half of the course surveys migration and community formation among a broad range of ethnic groups in different parts of the city and suburbs, mainly through history, sociology, and geography; the second half focuses on specific policy and community and economic development initiatives. Ultimately, the class aims to provide students with 1) a broad knowledge of immigration and its impacts on cities and regions; 2) an in-depth understanding of urban policies and institutions working on immigration in U.S. cities; and 3) familiarity with community and economic development strategies for migrant and receiving communities.
Taught by: Vitiello
Course usually offered in spring term
Also Offered As: SOCI 270, URBS 270
Activity: Seminar
1 Course Unit

CPLN 678 Elements of a Sustainable Development Policy
This course has several objectives. The central focus will be on developing a comprehensive understanding of the principles of sustainable development, a broad, deep, and in fact, revolutionary new way of shaping the operations of society. It was first defined in the 1987 Report of the United Nations’ World Commission in Environment and Development (the Brundtland Report) as: "... development that meets the needs to the present without compromising the ability of future generations to meet their own needs.” The course will combine lectures on general concepts and ways of viewing sustainable development with individuals and team presentations on a wide variety of sustainable development programs. Students will examine the efforts of universities, companies, local governments, state governments, and national governments to being to moderate man’s impact of the natural environment and to make societies more economically viable and just - and therefore, more sustainable - in the long run. Students will learn how sustainable development strategies involve the full range of human activities, such as energy production and use, creation of urban communities, transportation, food systems, building construction and operation, waste disposal, control of environmental pollution, water use and treatment, and social inclusion, migration, and global poverty.
Taught by: Keene
Course usually offered in spring term
Also Offered As: URBS 478
Activity: Seminar
1 Course Unit
CPLN 679 Policy and Design
This seminar provides an advanced introduction to policy development and is intended to engage students in policy-making. Policy outcomes often have formal and/or scalar qualities. Yet policy developers often treat these as unintended consequences. And designers typically operate within the constraints created by such consequences. But could design thinking improve policy outcomes? Our test bed for this examination will be the relationship between energy and urban form, which presents a critical policy challenge for young professionals from many fields. The seminar will survey current research and policy options emerging from local, regional, state, and federal governments and discuss their implications for design outcomes at the scale of buildings, neighborhoods, and regions? None of these implications have been fully explored by policy makers at any level of government. This seminar will explore each in turn, allowing students to develop a deep understanding of the policy content on this important issue as well as of the policy process in general. Students will develop projects ranging from an analysis of policy to a presentation of the design implications of existing/proposed/alternative energy policies. The intent is for the seminar to make an active contribution.
Taught by: Hughes
Course usually offered in spring term
Also Offered As: ARCH 756
Activity: Seminar
1 Course Unit

CPLN 680 Advanced Topics in GIS
The primary objective of this course is to equip students with a selected set of sophisticated and specialized tools for the practical use of geographic information systems in a variety of application settings. Participants will have the opportunity to focus on particular topics in each of four major areas including: data acquisition - e.g. remote sensing, LiDAR imagery, global positioning systems, mobile GIS, applied geocoding, geodatabases, ArcSketch, and/or CAD interaction; communication - e.g. web mapping, animation, and/or professional cartographic techniques; problem solving - e.g. cartographic pattern recognition, geospatial allocation, agent-based modeling, geostatistics, network analysis, and/or spatio-temporal simulation; and tool building - e.g. Python scripting, GoogleMap mashups, and/or open source GIS. The course is conducted in a seminar format with weekly sessions devoted to lectures, demonstrations, and discussions conducted by the instructor, students, and invited guests. Offered in the spring annually.
Taught by: Tomlin
Course usually offered in fall term
Also Offered As: LARP 745, MUSA 800
Activity: Seminar
1 Course Unit

CPLN 682 Humanities, Urban, Design
Course usually offered in spring term
Also Offered As: ARTH 581
Activity: Seminar
1 Course Unit

CPLN 685 Environmental Readings
In this seminar, we will explore this green thread and analyze its influence on how we shape our environments through design and planning. The course has three parts. Throughout, the influence of literature on design and planning theory will be explored. The first part will focus on three most important theorists in environmental planning and landscape architecture: Frederick Law Olmstead Sr., Charles Eliot and Ian McHarg. The second part of the course will critically explore current theories in environmental planning and landscape architecture. The topics include: frameworks for cultural landscape studies, the future of the vernacular, ecological design and planning, sustainable and regenerative design, the languages of landscapes, and evolving views of landscape aesthetics and ethics. In the third part of the course, students will build on the readings to develop their own theory for ecological planning or, alternatively, landscape architecture. While literacy and critical inquiry are addressed throughout the course, critical thinking is especially important for this final section.
Taught by: Steiner
Course usually offered in fall term
Also Offered As: LARP 780
Activity: Seminar
1 Course Unit

CPLN 690 Java and Javascript Programming for Planning Applications
This course will introduce city planning, MUSA and design graduate students to Java and Javascript. Students will learn the logic and syntax of the Java programming language for use in simple web applications (Weeks 1 to 7); as well as how to program database and map-oriented web and desktop applications using Javascript (Weeks 8 to 14). The "hands-on" uses of Java and Javascript in urban planning applications will be emphasized. Students will hone their programming and applications development skills through a series of bi-weekly assignments.
Taught by: Faculty
Course usually offered in fall term
Also Offered As: MUSA 610
Activity: Laboratory
1 Course Unit

CPLN 701 Planning Studio
Intensive study of a selected planning topic. Teams of students work with clients to develop alternative scenarios and produce plan and implementation strategies. Multiple presentations required.
Taught by: Yaro
Course usually offered in spring term
Activity: Studio
2 Course Units

CPLN 702 Planning Studio
Intensive study of a selected planning topic. Teams of students work with clients to develop alternative scenarios and produce plan and implementation strategies. Multiple presentations required.
Taught by: Al
Course usually offered in spring term
Activity: Studio
2 Course Units

CPLN 703 Planning Studio
Intensive study of a selected planning topic. Teams of students work with clients to develop alternative scenarios and produce plan and implementation strategies. Multiple presentations required.
Course usually offered in spring term
Activity: Studio
2 Course Units
CPLN 704 Planning Studio  
Course usually offered in spring term  
Activity: Studio  
2 Course Units  

CPLN 705 Planning Studio  
Taught by: Landis  
Course usually offered in spring term  
Activity: Studio  
2 Course Units  

CPLN 707 Planning Studio  
Course usually offered in spring term  
Activity: Studio  
2 Course Units  

CPLN 708 Planning Studio  
Taught by: Landis  
Course usually offered in spring term  
Activity: Studio  
2 Course Units  

CPLN 720 Community and Economic Development Practicum  
This practicum involves a weekly mixture of lecture and seminar course-time with applied problem solving for real-world clients. It will be a second-year course focused on organizational development, business planning, and other strategic planning techniques that complement the physical planning focus on PennPlanning Workshop and Studio. Required of students in the CED concentration.  
Taught by: Vitiello  
One-term course offered either term  
Activity: Lecture  
1 Course Unit  

CPLN 730 Sustainable Cities  
Sustainability as a concept has been around for almost thirty years, but only recently has become a major factor in planning practice. This seminar course will explore the following sustainability topics and practices: (i) Goals and organization of urban sustainability initiatives; (ii) Transportation, water and air quality, solid waste reduction; (iii) Climate change and energy efficiency initiatives; and (iv) Green building policies. We will thoroughly examine case studies drawn from sustainability planning initiatives from major American cities, with selected international comparisons.  
Taught by: Hughes  
Course usually offered in spring term  
Activity: Lecture  
1 Course Unit  

CPLN 750 Advance Transportation Seminar, Air Transportation Systems Planning  
Air transportation is a fascinating multi-disciplinary area of transportation bringing together business, planning, engineering, and policy. In this course, we explore the air transportation system from multiple perspectives through a series of lessons and case studies. Topics will include airport and intercity multimodal environmental planning, network design and reliability, air traffic management and recovery from irregular operations, airline operations, economics, and fuel, air transportation sustainability, and land use issues related to air transportation systems. This course will introduce concepts in economics and behavioral modeling, operations research, statistics, environmental planning, and human factors that are used in aviation and are applicable to other transportation systems. The course will emphasize learning through lessons, guest lecturers, case studies of airport development, and an individual group and research project.  
Taught by: Ryerson  
Course usually offered in spring term  
Also Offered As: ESE 550  
Prerequisite: CPLN 550 or equivalent  
Activity: Seminar  
1 Course Unit  

CPLN 760 Public Realm Studio  
This intensive foundation studio focuses on the physical planning and design skills necessary in shaping the public realm. Students will undertake a series of targeted exercises that introduce them to project conceptualization, context analysis, programming, site planning, technical issues, and detailed design of public space in cities. Focusing on issues pertinent to local municipalities, students will work collaboratively and individually over the semester on design elements that cover a range of scales. Intellectual objectives within the studio include: the links between theory and practice, the development of principles to guide design, understanding associations between design and stakeholder-user interests, and exploring larger issues of sustainability and participation in design practice. Emphasis on the pragmatics of problem solving and implementation will be balanced with essential skills in visioning, critical thinking and design leadership.  
Taught by: Al  
Course usually offered in fall term  
Activity: Studio  
2 Course Units  

CPLN 767 Theory and Principles of Urban Design  
An introduction to the theoretical basis for beliefs and practices in city and environmental design, including the relation of the built environment to the natural environment, the organization of groups of buildings, the use and meaning of public places, and the relation of technology to land use and community.  
Taught by: Barnett  
Course usually offered in fall term  
Activity: Lecture  
1 Course Unit
CPLN 791 CPLN Summer Institute: Spreadsheet Review
Excel for Planners: use of Excel to develop simple planning indicators (e.g., location quotients), simple planning models (e.g., fiscal impact models), and database operations. Course enrollment is by permit only. Please contact Roslynne Carter (CPLN Dept.) at at roslynne@design.upenn.edu.
Taught by: Faculty
Course usually offered summer term only
Activity: Lecture
0 Course Units

CPLN 792 CPLN Summer Institute: Statistics
Basic Statistics for Planners: review of descriptive and basic inferential statistics, including z-scores, confidence intervals, t-tests, and chi-squared. Course enrollment is by permit only. Please contact Roslynne Carter (CPLN Dept.) at at roslynne@design.upenn.edu.
Taught by: Faculty
Course usually offered summer term only
Activity: Lecture
0 Course Units

CPLN 793 CPLN Summer Institute: Computer Methods Computer Graphics
Introduction to Presentation and Report Graphics for Planners: including one day each on Photoshop, Illustrator, Sketchup, and InDesign Course enrollment is by permit only. Please contact Roslynne Carter (CPLN Dept.) at at roslynne@design.upenn.edu.
Taught by: Faculty
Course usually offered summer term only
Activity: Lecture
0 Course Units

CPLN 794 CPLN Summer Institute: Microeconomics Review
Micro-econ Review: review of principles of supply and demand, elasticities, equilibrium prices and quantities. Course enrollment is by permit only. Please contact Roslynne Carter (CPLN Dept.) at at roslynne@design.upenn.edu.
Taught by: Faculty
Course usually offered summer term only
Activity: Lecture
0 Course Units

CPLN 795 Cpln Summer: Intro To Gis
The summer GIS Bootcamp prepares students for the intermediate GIS classes that begin in the fall semester. It begins with a discussion of GIS in planning and the social sciences and then moves on to topics related to spatial data, geocoding, projection, vector and raster-based geoprocessing, 3D visualization and more. Each class includes a brief lecture and a walk through involving actual planning related data. Course enrollment is by permit only. Please contact Roslynne Carter (CPLN Dept.) at at roslynne@design.upenn.edu.
Taught by: Faculty
Course usually offered summer term only
Activity: Lecture
0 Course Units

CPLN 796 Professional Project
Course usually offered in spring term
Activity: Independent Study
1 Course Unit
Notes: Capstone project, supervised by a faculty member.

CPLN 799 CPLN Summer Institute: Introduction to the R Statistical System
This one-week short course will introduce students to the basics of the R statistical programming language, including importing and setting up data, using the R interface to conduct descriptive data analysis, and basic model-building procedures. Course usually offered summer term only
Activity: Lecture
0 Course Units

CPLN 800 Doctoral Seminar
Open to PhD students, this scholar-oriented seminar explores how academic researchers from different disciplines define researchable questions, craft research designs, and contribute to knowledge through an examination of important and/or recently published books and monographs with an urban focus. Required of all first- and second-year CPLN doctoral students and those doctoral students enrolled in the Urban Studies Graduate Certificate Program, enrollment is limited to 15 students. Other doctoral students may enroll on a space available basis. Course requirements include completion of a major research paper on a topic selected in consultation with the instructor.
Taught by: Birch
One-term course offered either term
Also Offered As: HIST 608, URBS 608
Activity: Seminar
1 Course Unit

CPLN 999 Independent Study and Research
One-term course offered either term
Activity: Independent Study
1 Course Unit
Notes: Ph.D. candidates. Independent study and research under faculty supervision.