UPP 220. Latin American Cities in a Global Context: Environment, Employment, and Housing. 3 hours.
Global economic trends impacting Latin American cities, with a focus on three urban planning issues: environment, employment and housing. Growing inequality, precarious employment, spatial segregation, and squatter settlements will be explored. Same as LALS 220. Recommended background: LALS 101.

UPP 302. Great Cities Internship. 6 hours.
Provides students an opportunity to apply theoretical knowledge and conduct research in metropolitan organizations through field placements and seminars. Course Information: Same as POLS 302. Prerequisite(s): Junior or senior standing and grade point average of 3.00, or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

UPP 403. Planning Practices for Great Cities. 3 or 4 hours.
Patterns of city growth, physical, socio-economic, and environmental issues. Contemporary planning issues. Future of cities. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Advanced undergraduate standing or consent of the instructor.

UPP 405. Researching the City. 0-4 hours.
Addresses basic issues of quantitative reasoning in planning and policy, including use of data sources, organizing, searching, managing, and analyzing data. Emphasizes presenting findings visually and in writing. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Junior or senior standing and grade point average of 3.00, or consent of the instructor. Recommended background: Grade of B or better or concurrent registration in US 202. To be properly registered, students must enroll in one Lecture and one Discussion/Recitation.

Comparative investigation of urban, economic, social, and political issues in the two global cities. Includes classes, study, and living in London. Course Information: Field work required. Prerequisite(s): Grade of C or better in ECON 120; and junior standing or above; or consent of the instructor. Recommended background: Grade of B or better or concurrent registration in US 202. To be properly registered, students must enroll in one Lecture-Discussion and one Practice.

UPP 458. Introduction to Geospatial Analysis and Visualization I. 2 hours.
A basic introduction to the software used and rules governing effective communication of geospatial and other data in visual format. Course Information: Extensive computer use required. Meets eight weeks of the semester. Credit is not given for UPP 458 if the student has credit in UPP 460. Prerequisite(s): Graduate standing.

UPP 459. Introduction to Geospatial Analysis and Visualization II. 2 hours.
In-depth instruction in software used and rules governing effective communication of geospatial and other data in visual format. Exploration of design principles for communicating complex information in a variety of formats. Course Information: Credit is not given for UPP 459 if the student has credit in UPP 460. Extensive computer use required. Meets eight weeks of the semester. Prerequisite(s): Grade of B or better in UPP 458; and senior standing or above; or consent of the instructor.

UPP 460. Introduction to Geospatial Analysis and Visualization. 3 or 4 hours.
Exploration of geospatial analysis and visualization theory and tools; how to appropriately choose and use tools. Cognition, communication, modeling, cartography, web authoring, 3-D visualization, and aerial and satellite photography. Course Information: 3 undergraduate hours. 4 graduate hours. Extensive computer use required. Centrino 2 Duo processor, 2 GB RAM and 100 GB hard drive minimum recommendations. Prerequisite(s): Junior standing or above; and approval of the department. Priority registration will be given to students admitted to the campus certificate program in Geospatial Analysis and Visualization.

UPP 461. Geographic Information Systems for Planning and Policy. 3 or 4 hours.
Applications of Geographic Information Systems to understanding spatial relationships for their importance in planning use and policy making across a variety of disciplines/policy sectors. Course Information: Same as GEOG 469. 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Junior standing or above; and consent of the instructor. Priority registration will be given to students admitted to a campus certificate program in Geospatial Analysis and Visualization.

UPP 462. Intermediate GIS for Planning and Policy. 3 or 4 hours.
To reinforce and expand on topics taught in UPP 461 and introduce more advanced features of GIS and its applications to urban planning and policy. Course Information: 3 undergraduate hours. 4 graduate hours. Extensive computer use required. Prerequisite(s): Junior standing or above; and approval of the department. Priority registration will be given to students admitted to the campus certificate program in Geospatial Analysis and Visualization.

UPP 463. Complexity-based Models for Planning and Policy. 3 or 4 hours.
Introduction to complexity-based models and their possible applications to a range of planning and public policy issues. Course Information: 3 undergraduate hours. 4 graduate hours. Extensive computer use required. Prerequisite(s): Junior standing or above; and approval of the department. Priority registration will be given to students admitted to the campus certificate program in Geospatial Analysis and Visualization. Recommended background: Experience in object-oriented programming is helpful but not required.
UPP 464. Advanced Visualization Techniques. 3 or 4 hours.
Specialized computational abilities for various planning areas including: database and spreadsheet analyses, spatial information systems, imageries and image editing, 3D modeling and virtual reality, hypermedia or multimedia, and the internet. Course Information: 3 undergraduate hours. 4 graduate hours. Extensive computer use required. Centrino 2 Duo with at least 2GB RAM and 110 GB hard drive minimum recommended specifications. Prerequisite(s): Junior standing or above; and approval of the department. Priority registration will be given to students admitted to the campus certificate program in Geospatial Analysis and Visualization.

UPP 465. Topics in Geospatial Analysis and Visualization. 0-5 hours.
Intensive exploration of specialized topics in Geospatial Analysis and Visualization. Course Information: 1 to 4 undergraduate hours. 2 to 5 graduate hours. May be repeated to a maximum of 9 hours for undergraduate students and 12 hours for graduate students. Students may register in more than one section per term. Extensive computer use required. Prerequisite(s): Grade of B or better in UPP 460; or Grade of B or better in UPP 461; and appropriate score on the department placement test; and senior standing or above; and consent of the instructor.

UPP 470. Cohort Seminar for Urban Developers. 3 or 4 hours.
Application of the financial calculator, use of spreadsheets, and other tools commonly used in real estate-based urban development projects. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Consent of the instructor.

UPP 471. Housing and Community Development for Urban Developers. 3 or 4 hours.
Housing policy at federal, state and local levels affecting urban housing markets. Emphasis on assessment of market conditions affecting community development decisions. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): UPP 470 or consent of the instructor.

UPP 472. Development Finance For Urban Developers. 3 or 4 hours.
Key financial principles of real estate development, particularly those related to the financing of affordable housing. How to develop a real estate pro forma. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Consent of the instructor.

UPP 473. Organizational Essentials for Urban Developers. 3 or 4 hours.
Theory and practice of management in public and non-profit settings. Focus on developing communication, leadership and legal skills for each step in development. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Consent of the instructor.

UPP 474. Community Development Process for Urban Developers. 3 or 4 hours.
Developing affordable housing: development team, acquisition strategy, legal issues, construction management and project sustainability, as it pertains to different types of housing developments. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Consent of the instructor.

UPP 475. Sustaining the Housing for Urban Developers. 3 or 4 hours.
Introduces students to a range of management issues: property management and maintenance, resident relations and services, and financial/asset management as it relates to sustaining affordable housing. Course Information: 3 undergraduate hours. 4 graduate hours. Prerequisite(s): Consent of the instructor.

UPP 492. Topics in Urban and Public Affairs. 3 hours.
In depth study of selected issues of urban and public affairs. Course Information: May be repeated to a maximum of 6 hours. Students may register for more than one section per term. Prerequisite(s): Admission to the BA Program in Urban and Public Affairs or consent of the instructor.

UPP 493. Topics in Urban Planning and Policy. 1-4 hours.
Intensive analysis of selected planning problems or policy issues. Course Information: May be repeated to a maximum of 12 hours. Students may register for more than one section per term. Prerequisite(s): Junior standing or above; and consent of the instructor.

UPP 494. Senior Capstone Experience in Urban and Public Affairs I. 3 hours.
A selection of a capstone topic and introductory research on the topic. Course Information: Field work required. Prerequisite(s): Senior standing or above; Admission to the BA in Urban and Public Affairs Program or consent of the instructor. Class Schedule Information: To be properly registered, students must enroll in one Lecture-Discussion and one Conference.