URBAN AND METROPOLITAN STUDIES*

College of Urban Development

321. Urban Community Self-Development
Fall, 4(4-0) Majors: Juniors and U D 202; others: Juniors or approval of department.
Selected urban racial, ethnic and religious communities, their problems and the self-development systems employed, past and present, will be studied and evaluated.

323. Strategies for Change of Urban Systems
Fall, Winter, Spring, 4(4-0) Majors: Juniors and U D 202; others: Juniors or approval of department.
Conceptualization of intervention and change strategies applicable to formal and informal organizations in an urban problem setting.

341. Organization of Health Services
Fall, Winter, 3(3-0) Majors: Juniors and U D 202; others: Juniors or approval of department.
Socio-political structures, planning aspects, services, and research efforts of health service organizations at the federal, state, and local levels.

345. Critical Problems in Urban Health
Winter, Spring, 3(3-0) Juniors; at least one social science and one natural science course; majors, U D 202; or approval of department.
Urban health problems in the areas of infectious diseases, nutrition, psycho-social stresses, and genetic diseases. Epidemiological and demographic references related to the urban population.

347. Impact of Culture on Health
Fall, spring, 3(3-0) Juniors or approval of department.
The impact of culture on various aspects of health will be addressed; i.e., nutrition, group dynamics, social and psychological issues, including patterns of coping.

349. Social Resources in the Management of Health Problems
Spring, 3(3-0) 485. HPR 103, or approval of department.
The application of social resources to management of health problems and systems of care associated with those problems from the view of modern and folk medicine.

361. Education and Urban Social Structure
Fall, Spring, 3(3-0) Majors: Juniors and U D 202; others: Juniors or approval of department.
Conflict between the goals of equality of opportunity and the processes of social allocation in urban metropolitan school systems.

363. Compensatory Education in Urban America
Fall, Winter, 3(3-0) Majors: Juniors and U D 202; others: Juniors or approval of department.
Assumptions, purposes, problems, and results of compensatory education programs as they affect urban school systems.

380. Urban Economics
Fall, 4(4-0) EC 200, 201. Interdepartmental with and administered by the Department of Economics.
Location theory and urban development. Economics of city size and urban-suburban conflict. Economic aspects of certain community problems like housing, transportation, welfare and poverty. Strategies for urban development.

390. The Economics of Poverty
Winter, 3(3-0) EC 200, 201. Interdepartmental with and administered by the Department of Economics.

441. Health and Environmental Quality
Spring, 3(3-0) Majors: Juniors and U D 202; others: Juniors or approval of department.
Relationship between health and the physical and socio-cultural environment from the perspective of, e.g., law, psychology, politics, medicine and the community.

443. Educational Segregation, Desegregation, Integration and Busing
Winter, Spring, 3(3-0) Majors: Juniors and U D 202; others: Juniors or approval of department.
Development and effects of segregation, desegregation, integration and busing for public school integration on minority and majority groups.

480. Independent Study
Fall, Winter, Spring, Summer. 2 to 4 credits. May re-enroll for a maximum of 10 credits. Juniors; approval of department.

485. Selected Topics in Urban and Metropolitan Studies
Fall, Winter, Spring, Summer. 4(4-0) May re-enroll for a maximum of 8 credits. Juniors, or U D 200, S S 221. Contemporary issues and problems in the urban areas.

URBAN DEVELOPMENT U D
(COLLEGE OF)

200. Human Perspectives on Urbanization
Fall, Winter, Spring. 4(4-0)
The changing role of the city in contemporary urban societies. The human problems in urban centers as well as strategies for solving those problems.

201. Historical Roots of Racism and Ethnocentrism
Fall, Winter, Spring. 4(4-0)
Theories of racism and ethnocentrism, emphasizing a problem-solving approach in applying these theories to pluralism as it relates to Blacks, Spanish-Speaking and Indian Americans.

202. Minorities in American Cities
Fall, Winter, Spring. 4(4-0) 300 and 400.
Changing socio-economic and political conditions of minority groups in American cities associated with urbanization. Special emphasis will be given to Blacks, Spanish-Speaking and Indian Americans.

498. Prefield Experience Seminar
Fall, Winter, Spring, Summer. 1 credit. Approval of college.
Prepares students for the required College of Urban Development field experience. Students develop field experience proposal including rationale and objectives.

499. Field Experience
Fall, Winter, Spring. 6 to 12 credits. May re-enroll for a maximum of 24 credits. 498 and approval of college.
The development of field research and analytical skills and the provision of experiential learning via students participating in field work settings and public service projects.

URBAN PLANNING AND LANDSCAPE ARCHITECTURE

College of Social Science

Urban Planning UP

163. Design of Cities
Spring. 3(3-0)
Definition of planning; objectives and accomplishments of the urban designer; basic design principles of space, scale and circulation applied to the physical pattern of cities.

201. Evolution of Urban Communities
Fall, Spring. 3(3-0)
Basis for particular overall forms in urban settlements. Interrelationships of various cultural influences and theoretical urban concepts to contemporary communities in the United States and foreign areas.

202. Contemporary Urban Development
Winter. 3(3-0) 201 recommended.
Current patterns, trends and problems indicated in the development and renewal of established urban centers and new urban growth.

33. The Role of Planning in Urban Development
   Spring. 3(3-0) 231 recommended.
Influence upon urban and regional development exerted by various types of governmental and private organizations.

243. Planning Communication
Fall, Spring. 3(2-2)
Development of planning materials using basic skills of graphic presentation, writing, and oral reporting. Methods of graphic analysis and reproduction will be emphasized.

311. Site Planning and Construction I
Winter. 5(3-8)
Elementary problems emphasizing physical development of specific sites involving population densities, architectural forms, grading, public utilities, traffic and parking, and functioning street patterns.

342. Research Methods in Planning
Winter. 5(5-0) SSG 311.
Methods for investigation and analysis of urban phenomena; models, data and techniques used in mathematical, graphical and logical analysis.

351. Spatial Design
Fall. 2(4-4) 233, 243.
Urban community functional physical elements at various scales. Laboratory work on planning problems related to human activity flow, terrain and structures, including land subdivision design.

352. Urban Design Problems
Winter. 5(0-9) 351.
Application of the physical design processes from the scale of individual element groupings to complete community units in a two and three dimensional context.

363. Comprehensive Planning Process
Spring. 3(3-0) 232, 242.
Theory and application of coordinated planning for urban development, including policies and development plan formulation, programming, evaluation, review and revision of policies and plans.

400. Urban Development and Planning
Fall, Spring. 3(3-0) Credit may not be earned in 232 or 233 and 400. Juniors Not open to majors in Urban Planning.
Planning concepts and powers used to guide contemporary urban growth and alleviate common problems. Major topics will be the planning commission, comprehensive plan, zoning, land development, parks, school location.

431. International Housing Developments
Fall. 3(3-0)
Importance and types of governmental housing programs in reference to urban design, financial policies and land issues. Projects and programs selected primarily from underdeveloped countries.

433. Man and His Shelter
Fall, Spring. 3(3-0) Interdepartmental with the Human Environment and Design Department.
Interdisciplinary approach to man and his shelter; role of shelter in the community, housing as a cultural, economic, and institutional force; future developments and needs.

461A. Comprehensive Planning
Fall. 4(0-8) 363.
Collection, analysis and synthesis of planning information for an established urban area and region. Formulation of comprehensive physical development policies and plans and implementation programs.

461B. Comprehensive Planning
Winter. 4(0-8) 461A.
Continuation of 461A.

461C. Comprehensive Planning
Spring. 4(0-8) 461B, 471.
Continuation of 461B.

471. Ecological Basis for Planning
Fall. 3(3-0) Seniors.
Ecological principles, relationships and interrelations between natural and man-made elements of the environment; critical review of environmental planning problems at local, state and national levels.

472. Urban Development Regulation
Winter. 3(3-0) Seniors.
Public and private regulations basic to regulations influencing urban development; state enabling legislation and regulations, local ordinances, especially for zoning and subdivision regulations.

473. Urban Development Programs
Spring. 3(2-2) 472.
Governmental programs influencing urban development, including direct development projects, technical and financing assistance, administrative regulations by federal and state agencies. National, state and regional programs.

490. Independent Studies in Urban Planning
Fall, Winter, Spring. 2(2-0) Senior majors, approval of school.

800. Special Problems
Fall, Winter, Spring, Summer. 2 to 6 credits. May re-enroll for a maximum of 6 credits. Approval of school.

801. City and Regional Design
Practical application of city and regional planning theory and principles to specific and representative case studies. Work will include field research, design analysis, and presentation of workable recommendations as to appropriate objectives and actions for solutions:

A. Urban Design
Spring. 5 credits. Approval of school. Design projects for functions relating to selected community activities. Commercial, industrial, residential, institutional, and transportation land uses will be utilized for design study in appropriate dimensions.

B. Metropolitan Regions
Fall. 6 credits. 471 and approval of school.
Selected problems of metropolitan functions of present and future significance. Inters and inter-regional relationships of primary functional importance; such as, open spaces, economic development, community patterns, transportation, and associated land uses.

820. Research Methods in Urban Planning
Winter. 4(4-0) Approval of school.
Examination of research methods useful in application to components of urbanization as population, land use, housing, business facilities, industrial development, traffic, recreation, and critical aspects of community structure.

821. Seminar in Housing and Urban Renewal
Winter. 3(3-0) 432.
Regulation, stimulation, salvage, and replacement of housing through public policy and administrative procedures. Increasing role of private initiative as partner to public action through conservation, rehabilitation, and redevelopment practices. Evaluation of trends and needs; analysis of case studies.
822. Urban Circulation  Fall. 3(3-0) 342 or 400 and approval of school.
Functional requirements and interrelationships of all means for the movement of people and goods in urban areas as they affect the physical pattern of the community.

830. Legal Bases for Planning  Winter. 3(3-0) 473; approval of school.
Analysis of legislation pertinent to planning, emphasis upon legislation for city and regional planning and creation of special authorities with general planning responsibilities.

831. Zoning and Land Subdivision Regulation  Fall. 3(3-0) 830 or approval of school.
Ordinance structure and planning theory as expressed in texts of ordinances. Selected court cases.

832. Administration and Professional Practice  Spring. 3(3-0) Majors or approval of school.
Expanding scope of urban planning and implications for administration; organizations for administration; relationship to governmental operations, to other professions, to public. Staff functions and responsibilities; administrative instruments; practice of the consultant; professional ethics.

Individual student research on a topic of critical importance to urban planning that will demonstrate student's competence and make a contribution to the knowledge of the field.

Landscape Architecture

100. Environmental Perception  Fall, Spring. 3(0-6)
Environmental design concepts, orientation to landscape architecture, including environmental inventories, objectives and aspects of public and private professional practice, and scope and types of landscape development projects.

110. Fundamentals of Design  Fall, Winter. 5(2-0)
Analysis and application of elements and principles of design in two and three dimensional expressions to abstract and spatial design compositions for environmental requirements.

120. Graphic Communication  Winter, Spring. 4(1-6)
Basic technical skills for graphic communications, mechanical and free-hand drafting and lettering, sketching, perspective drawings, use of graphic symbols, dimensioning, rendering media and techniques, and reproduction methods.

201. Site Planning Theory  Spring. 2(2-0)
Elements, principles and concepts for site development; inclusion use area organization, orientation and siting of buildings, circulation and parking systems, spatial definitions, and detail design considerations.

230. Landform Design  Fall, Winter. 4(2-4) Majors or approval of school.
Elements and principles of site grading, relief visualization, contour interpretation, land form units, surface drainage, slope calculations, and earthwork quality determinations.

240. Landscape Design Methods  Winter. 4(0-6) Majors or approval of school.
Considerations and techniques of landscape design, including natural, cultural and perceptual inventories, site and program analyses, development of design concepts, with verbal and graphic expressions. Field trips required.

241. Site Planning Studio  Spring. 3(0-6) Majors and 201 concurrently, or approval of school.
Application of site planning theory and landscape design methods to representative site development projects involving buildings, use areas, land, water and plant forms, with verbal and graphic expressions. Field trips required.

250. Introductory Planting Design  Winter. 4(2-4) Majors or approval of school.
Principles of and procedures for arrangement of plant compositions, emphasizing the perceptual characteristics of plants by means of models, sketches and plans, and potential applications to landscape developments. Field trips required.

303. Community Design Theory  Fall. 2(2-0)
Ecological and cultural elements and concepts of community development, including data surveys, legal controls, design standards and site planning requirements for community facilities.

304. Housing Design Theory  Winter. 3(3-0)
Concepts, principles and regulations for the development of housing areas, including ecological considerations, cultural implications, housing forms, types of developments, legal controls, and site planning requirements and procedures.

305. Recreation Design Theory  Spring. 2(2-0)
Ecological and cultural considerations for development of open space and recreation areas, resource characteristics and limitations activity requirements, recreation systems, site design standards, and recreational land use programs and policies.

321. Advanced Graphic Communication  Fall. 4(1-6) Junior majors.
Development of proficiency in landscape delineation and rendering techniques, including specialized media and formats for visual presentations of design concepts, analyses and perceptions.

333. Site Construction  Spring. 4(2-4) Junior majors.
Materials and methods for construction of landscape developments, including details, layouts, construction drawings, specifications and cost estimating procedures.

343. Design of Community Facilities  Fall. 3(0-6) Junior majors and 303 concurrently.
Applications of community design theory and landscape design methods to representative community developments, such as institutions, commercial, civic and industrial site design projects, with written, oral and graphic representations. Field trips required.

344. Design of Housing Developments  Winter. 3(0-6) Junior majors and 304 concurrently.
Applications of housing design theory and site planning principles and methods to representative housing developments, such as residential land subdivisions, multi-family complexes and planned unit developments, with written, oral and graphic representations. Field trips required.

345. Design of Recreation Areas  Spring. 3(0-6) Junior majors and 305 concurrently.
Applications of recreation design theory, site planning principles and procedures to representative recreational land developments, parks, special recreation use areas, with verbal and graphic expressions. Field trips required.

353. Functional Planting Design  Spring. 4(2-4) Junior majors.
Principles and procedures for selection and arrangement of plant materials for specific uses, including climate modification, spatial definition, circulation control, soil and water conservation, etc., as expressed by planting plans and specifications.

360. Architectural Design Theory  Winter. 2(2-0)
Physical and visual properties of construction materials, structural elements and systems, siting of buildings, form-space relationships and related principles of architectural design.

362. Architectural Design Studio  Winter. 3(0-6) Majors or approval of school.
Application of architectural design theory to representative building types and situations, with emphasis on structural and spatial form and site relationships of simple buildings. Field trips required.

370. History of Environmental Development  Winter. 3(3-0)
Significant natural conditions and cultural events which have influenced man's attempts to organize and design his physical environment, as expressed in historic landscape development styles and movements.

401. Regional Design Theory  Fall. 3(2-0)
Concepts and policies affecting natural resource conservation, selection and location of significant human use areas, landscape development considerations and their environmental implications.

403. Urban Design Theory  Winter. 2(2-0)
Concepts and procedures for the organization, design and development of public and private urban forms and spaces, including survey of urban elements, cultural, ecological and aesthetic considerations, and interdisciplinary collaboration.
423. Professional Graphics
Spring. (3-1-6) 321.
Applications of advanced sketching, perspective and rendering techniques for typical professional presentations, including prints, reproductions, photography and multi-media audio-visual communications.

430. Special Projects in Environmental Design
Summer. 5(2-6) 345.
The improvement of man’s physical environment as taught by a sequence of highly regarded professionals and educators in the environmental design professions.

432. Site Engineering
Winter. (4-3) Senior majors and CE 251.
Principles and procedures for the design of site development systems, horizontal and vertical road alignments, storm and sanitary sewer, site utilities and computer applications for preparation of site construction drawings.

441. Regional Landscape Design
Fall, 5(0-5) Senior majors and 401 concurrently.
Applications of regional design theory and landscape design methods to representative large-scale land-use and development projects, resource conservation, environmental restoration, and accommodation of various human activities. Field trips required.

443. Urban Landscape Design
Winter. 5(0-5) Senior majors and 403 concurrently.
Applications of urban design theory and landscape design methods to representative urban development projects, public places, pedestrian malls, civic and cultural complexes, etc., with written, oral and graphic representations. Field trips required.

451. Ecological Planting Design
Fall. 4(2-4) 250, 353 and HRT 211, 212.
Selection, utilization and arrangement of natural materials for various site development purposes, with emphasis on considerations of various environmental factors which affect plant growth and location for distinctive sites and uses. Field trips required.

463. Architectural Design II
Fall. 4(1-6) 360, 363.
Design of buildings and their groupings in relation to the landscape, including structural systems, form-space compositions, and applications to representative landscape development projects. Field trips required.

471. History of Landscape Architecture
Fall. 3(3-0)
Environmental design concepts and projects from 1850 to the present time, with emphasis on the development of the profession and practice of landscape architecture in the United States.

480. Professional Practice
Winter. 3(3-0) Senior majors.
Principles and procedures of professional landscape architectural practice, including ethics, client relations, registration, inter-professional collaboration and organization of operations for design implementation. Field trips required.

483. Landscape Architecture Seminar
Spring. 3(4-0) Senior majors.
Research presentation and discussion of significant current issues, trends, events and opportunities relating to contemporary theories and practices of landscape architecture.

490. Special Problems
Fall, Winter, Spring, Summer. 2 to 5 credits. May re-enroll for a maximum of 8 credits. Approval of school.
Investigation, for advanced undergraduate students, in landscape architecture, developed from special interest areas.

499. Landscape Architecture Design Thesis
Spring, Summer. 5(1-8) Senior majors.
Demonstration of analytical, creative and technical competencies in the development of methods and/or concepts leading to design solutions for contemporary landscape architecture problems.

501. Graduate Landscape Architecture I
Fall, Winter, Spring, Summer. 5 to 12 credits.
A series of complex problems of variable subject matter adjusted to the interests and needs of each individual student and designed to emphasize the various phases of landscape architecture such as plant materials and planting design, drafting and delineation, surveying and construction, contracts, specifications and reports, architecture and city planning and landscape design.

502. Metabolic Diseases, Endocrinology and Epidemiology
Summer. 4(4-0) Fifth-term Veterinary Medicine students.
Biochemical and physiological basis of metabolic and endocrine diseases of animals including diagnosis, treatment and management. Principles of epidemiology and their application in the study of diseases in animal populations.

504. Urinary and Hematopoietic Systems
Summer. 7(5-6) Fifth-term Veterinary Medicine students.
Integrative approach to the understanding of the urinary system in health and disease of animals. Pathogenesis, diagnosis, and clinical management of diseases of the hematopoietic and lymphoid organs and tissues.

510. Survey of Infectious Agents
Fall, 4(4-0) Sixth-term Veterinary Medicine students.
Host-microorganism relationship in diseases of animals; laboratory diagnosis, treatment, control, and public health significance will be emphasized.

512. Nervous System
Fall. 7(2-1) Sixth-term Veterinary Medicine students.
Normal and abnormal nervous system function in animals with emphasis on clinical neurology and neuropathology.

514. Cardiovascular and Respiratory Systems
Fall. 7(5-6) Sixth-term Veterinary Medicine students.
Pathogenesis, diagnosis, and management of cardiovascular and respiratory diseases of animals; anatomical, physiological, and pathological principles providing basis for medical and surgical treatment will be emphasized.

516. Reproductive System
Fall. 5(4-3) Sixth-term Veterinary Medicine students.
Reproductive disease of animals with emphasis on genital structure and function, endocrine interrelationships, methods for exmination of mammary gland and reproductive tract, diagnosis, and treatment.

518. Diagnostic and Surgical Procedures
Fall. 2(0-6) Sixth-term Veterinary Medicine student.
Demonstration and performance of some procedures applicable to nervous, reproductive, and respiratory systems.

520. Veterinary Public Health
Winter. 3(3-0) Seventh-term Veterinary Medicine students.
Public health aspects of veterinary medicine; the nature of laws, ordinances, and regulations; and veterinary medicine's role in the protection of the environment, ecology, and assurance of food hygiene.

522. Digestive System and Nutrition
Winter. 9(0-9) Seventh-term Veterinary Medicine student.
Pathogenesis, diagnosis, and treatment of diseases of the alimentary tract and digestive organs of animals. Recognition and rational therapy of nutritional diseases in animals.