433. **Urban Policy Analysis**  
(430.) Fall, Spring, Summer. 4(4-0)  
Juniors with background in policy and research methods.  
The nature of contemporary American urban public policy. The institutions and processes that affect urban policy. Theory and methodology of public policy analysis relating to select urban issues.

441. **Health and Environmental Quality**  
Winter. 3(3-0) Majors, Juniors and U D 202, others: Juniors or approval of department.  
Processes of individual psychological adjustment in general and especially as related to the urban environment. Particular emphasis on alienation, loneliness, crowding, personal space, behavior disorders, personal growth and development.

447. **Aging in Urban America**  
Spring. 3(3-0) Juniors or approval of department.  
Public policy issues concerning the aged. Political, economic and psycho-social aspects including evolving roles, housing and health needs, and minority issues. Investigation of programs for the aged. Potential for future.

455. **Special Topics in Urban and Metropolitan Studies**  
Fall, Winter, Spring. 3 to 4 credits. May repeat for a maximum of 8 credits. Juniors or U D 200, S S 221.  
Contemporary issues and problems in the urban areas. The topics will vary from time to time.

490. **Urban Program Planning and Evaluation**  
Winter, Spring. 3(3-0) UMS 290, UMS 291 or approval of department.  
Basics of planning and evaluating programs, especially those of relevance to urban areas. Ethical, political, social implications of evaluation research; experience in using real and simulated data.

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**URBAN DEVELOPMENT U D**

**URBAN PLANNING AND LANDSCAPE ARCHITECTURE**

**College of Social Science**

**Urban Planning U P**

- **203. Design of Cities**  
(103.) Winter. 3(3-0)  
Examination and evaluation of the urban environment, with emphasis on the visual characteristics and their influences upon human perceptions and activities. Contemporary design considerations.

- **231. Evolution of Urban Communities (S)**  
Fall. 4/40  
Historic interrelationships of various cultural influences and theoretical concepts on contemporary patterns, trends and problems of urban development and renewal.

- **233. The Role of Planning in Urban Development**  
Fall. 3/30  
Contemporary formal and informal roles of urban planners in various levels of government and private institutions. Influence exerted upon urban and regional development by governmental and private organizations.

- **243. Planning Communication**  
Fall. 4/2-4  
Development and presentation of planning materials emphasizing the coordination of speaking, writing, and graphic skills.

- **311. Site Planning and Construction I**  
Winter. 3/3-6  
Elementary problems emphasizing physical development of specific sites involving population densities, architectural forms, grading, public utilities, traffic and parking, and functioning street patterns.

- **341. Urban Planning Methods of Analysis**  
Fall. 3/3-6 Juniors in urban planning or approval of school.  
Types of urban planning variables and methods of application to planning studies. Study design for basic planning investigations, and techniques of investigation.

- **342. Research Methods in Planning**  
Winter. 4/4-0 U P 341  
Methods for investigation and analysis of urban phenomena: models, data and techniques used in mathematical, graphical and logical analysis.

- **351. Spatial Design**  
Spring. 4/3-4 U P 223, U P 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. 4/0-8 U P 351  
Application of the physical design processes from the scale of individual element groupings to complex community units in a two and three dimensional context.
362. Fiscal Planning
Winter, Winter. 3(3-0) U P 233 or U P 400.
Analysis of costs associated with plan implementation, redevelopment, and preservation. Relationship between the budgeting process and the fiscal implications of planning.

363. Comprehensive Planning Process
Spring. 3(3-0) U P 233.
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, Summer. 3(3-0). Credit may not be earned in U P 233 and U P 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. Human Shelter
Spring. 3(3-0)
Interdisciplinary approach to shelter; role of shelter in the community, housing as a cultural, economic, and institutional force; future developments and needs.

450. Social Planning
Winter. 3(2-2) U P 363, U P 400 or graduate students.
Definition of Social Planning. Techniques for identifying problems of resource access, and survey of attributes and skills necessary to improve delivery and participation. Field work with neighborhood organizations and planning agencies. Field trips required.

460. Planning Practice
Winter. 3(3-0) Senior urban planning major or U P 400.
Administration of urban planning in relationship to governmental operations, other professions and the public. Emphasis on staff functions and responsibilities, consultant practice, and professional ethics.

461A. Comprehensive Planning
Fall. 4(0-8) U P 353.
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) U P 461A.
Continuation of U P 461A.

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

461D. Comprehensive Planning
Fall. 3(3-0) U P 471.
Continuation of U P 461D.

471. Ecological Basis for Planning
Fall. 3(3-0) Seniors.
Ecological principles, relationships and interaction between natural and man-made elements of the environment; critical review of environmental planning projects 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) U P 472.
Current federal and state programs which affect local development and renewal. The grants process, including requirements, proposal preparation.

480. Historic Preservation
Winter. 3(3-0) Seniors, approval of department, interdepartmental with and administered by the Department of Art. History and philosophy of historic preservation; the new attitude toward preservation-historic districts and neighborhoods; documentation tools for preservation; a project based on field research.

481. Historic Preservation Planning
Spring. 3(3-0) Juniors. Interdepartmental with the Department of Art. Overview and analysis of the role of historic preservation in the urban planning process. Focus upon current and emerging techniques, programs, and approaches needed to create effective preservation efforts.

489. Internship in Urban Planning
Fall, Winter, Spring, Summer. 2(0-8) or 3(0-12) or 4(0-16). May reenroll for a maximum of 8 credits. Senior majors, approval of school. Individual experience in approved agencies and departments in the Lansing area.

490. Independent Studies in Urban Planning
Fall, Winter, Spring, Summer. 2 credits. May reenroll for a maximum of 4 credits. Senior majors, approval of school.

800. Special Problems
Fall, Winter, Spring, Summer. 2 to 6 credits. May reenroll for maximum of 6 credits. Approval of school.

806. Planning for Man and the Environment
Spring. 3(3-0)
Multi-dimensional environments of human settlements, normative characteristics, relationships to man, functional and dysfunctional situations, problems of comprehension, descriptive, normative design criteria, contemporary issues, and relationships to planning.

808. Background of Urban Development Planning
Fall. 3(3-0)
American urban development from 1620 to the present, including shifts in technology and social forces that influenced development patterns. Problems faced by the professional planner are emphasized.

Winter. 3(3-0) STT 201 or STT 421 or approval of school. Basic quantitative techniques used in planning, including statistics, linear methods, and network methods. Introduction to use of the computer. Intended for students with limited background in mathematics.

815. Research Methods in Urban Planning: Applications to Planning Problems
Spring. 3(3-0) U P 814.
Applied techniques used in planning research. Analysis and forecasting of urban population, economic activity, and land use. Analysis of transportation and other community facilities.

816. The Planning Process
Fall. 3(3-0)
Basic research and survey methods, and procedures used by the professional planner in developing a comprehensive plan.

818. Planning Theory: Theory of the Planning Process
Winter. 3(3-0) Approval of school. Influential schools of thought. Planning as a decision-making process, methods for defining goals in public and private programs, and the role of planning in formulating public policies.

819. Planning Theory: Theories of Urban Forms and Structure
Spring. 3(3-0) Approval of school. Idealized urban forms, theories and models in urban form as it relates to function and location of urban activities.

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

826. Planning Program Implementation
Fall. 3(3-0) Completion of the first year MUP Core Program or approval of school. An analysis of various techniques utilized by professional planners in effectuating plans and programs; Governmental roles in land use control, fiscal matters, taxation policies, and federal and state programs are stressed.

828. Planning Presentation Techniques
Fall. 2(1-2) or 3(1-4) Students with basic graphic skills should enroll for 2 credits. Approval of school. Communication skills utilized by planners to present policy proposals to governmental decision makers and citizens. Speaking, writing, and small group leadership is integrated with essential planning graphic skills.

834. Planning Practice I
Fall. 3(0-6) Completion of the first year MUP Core Program or approval of school. Field experience in the collection, analysis, and synthesis of information by individual students or student groups, to develop solutions to specific urban problems.

835. Planning Practice II
Winter. 3(0-6) U P 834.
Continuation of U P 834.
840. Administration and Professional Practice
(532.) Winter of even-numbered years. 3(3-0) Majors or approval of school.
Expanding scope of urban planning and implications for administration; organization for administration; relationship to governmental operations; to other professions, to public. Staff functions, professional ethics, professional standards.

842. An International Comparative Study of Urban Planning
Winter of odd-numbered years. 3(3-0) Urbanism patterns; types, scales, and design theory of new cities; techniques and organization for urban growth; selection of subject areas will be made according to the class composition.

850. Housing Program Planning
Spring of even-numbered years. 5(2-6) Approval of school.
Regulation, stimulation, salvage, and replacement of housing through public policy and administrative procedures. Increasing role of private initiative as partners to public action through conservation, rehabilitation, and redevelopment on an area.

855. Urban Land Policy and Regulation
Spring of even-numbered years. 5(2-6) Approval of school.
Public land use policy and legislation, and implementation of governmental actions. Land use controls exercised by several levels of government. Field work in development and application of land use control instruments.

862. Development Planning and Administration
Spring of odd-numbered years. 5(2-6) Approval of school.
Measurement of urban obsolescence and deterioration with accompanying analysis of symptoms and causes for a selected community. Comprehensive plan for urban renewal and development of options of land use will be utilized for design study in appropriate dimensions.

230. Landform Design
Spring. 4(2-4) Provisional majors. 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(1-6) Provisional majors, LA 321. 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.

250. Planting Design
Spring. 4(2-4) Provisional majors. 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.

260. Architectural Design
Winter. 4(2-4) Provisional majors. Elements and principles of architectural design including aesthetic qualities of buildings, physical and visual properties of materials, structural systems, and site lighting.

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

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

341. Basic Site Design
(241.) Fall. 4(1-6) Junior majors. Applications 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.

346. Project Site Design
Winter. 4(1-6) LA 346. Application of site planning principles and landscape design methods to comprehensive site development projects, with emphasis on housing and recreational requirements and opportunities.

348. Public Site Design
Spring. 4(1-6) LA 348. Application of site planning principles and landscape design methods to comprehensive site development projects, with emphasis on public and institutional requirements and opportunities.
442. Comprehensive Landscape Design
Spring, 3(2-2)
Applications of regional and urban design theory and landscape design methods to representative large-scale regional and urban landscape development projects.

471. History of Landscape Architecture
Spring, 3(2-2)
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.

521. Introduction to Veterinary Medicine I
(V M 500A.) Fall, 2(2-0) First-term Veterinary Medicine students.
Species and breed identification, predisposition for specific diseases, basic care and feeding, restraint and handling of small domestic animals, unusual pets, and laboratory animals.

531. Animal Behavior
(500E) Spring, 3(3-0) Third-term Veterinary Medicine students.
Emphasis on behavior of animals relating to disease prevention and treatment. Lectures, discussions, and demonstrations on veterinary ethology including animal communications, reproduction, restraint, handling, housing, and feeding habits.

540. Metabolic Diseases and Endocrinology
(503.) Winter, 2(2-0) Fifth-term Veterinary Medicine students.
Biochemical and physiological basis of metabolic and endocrine diseases of animals including diagnosis, treatment and management.

542. Principles of Radiology
Fall, 2(2-0) Fourth-term Veterinary Medicine students.

563. Visual System
(532.) Spring, 2(2-0) Sixth-term Veterinary Medicine students.
Methods of examination, diagnosis, and treatment of ocular diseases.

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