

**Descriptions – Urban Planning and Landscape Architecture
of
Courses**

**URBAN PLANNING AND
LANDSCAPE ARCHITECTURE**

College of Social Science

Urban Planning

U P

203. Design of Cities
(103.) Fall. 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, Spring, Summer. 4(4-0)

Forces which promoted urban development and shaped urban areas throughout human history. Relationships of these continuing influences to current urban concerns. Historical bases of cultural factors in contemporary urbanism.

233. The Role of Planning in Urban Development
Winter. 3(3-0)

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

Winter, Spring. 5(3-6) *Building Construction majors.*

Elementary problems emphasizing physical development of specific sites involving population densities, architectural forms, grading, public utilities, traffic and parking, and functioning street patterns.

335. Power, Policy, and the Metropolis

(UMS 335.) Spring. 4(4-0) Juniors.

Critical issues in power and decision making at a local level. Issues in central cities, suburbs, and metropolitan regions. Stresses the interaction between policy and social and economic forces.

341. Urban Planning Methods of Analysis

Fall. 3(3-0) 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 technique 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(2-4) U P 233, 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 complete community units in a two and three dimensional context.

362. Fiscal Planning

Winter of even-numbered years. 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. 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 as a governmental function in a democratic society. Powers and responsibilities for guiding urban growth and change. Processes of planning and its implementation. Development regulations and public facilities planning.

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.

432. Perspectives on Housing Policies in Selected Industrialized Countries

(RES 465.) Winter. 4(4-0) Juniors. *Interdepartmental with the Department of Human Environment and Design.*

Urban housing policies in selected countries, such as Great Britain, Italy, Poland, Russia, Scandinavia, United States, and West Germany.

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.

442. Foundations of Urban Policy

(UMS 432.) Fall. 4(4-0) Juniors.

Historical and political foundations of contemporary urban policy, stressing federal policies from public housing to general revenue sharing. Role of power and influence in policymaking process.

443. Urban Policy Analysis

(UMS 430, UMS 433.) Winter. 4(4-0) U P 342 or approval of school.

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.

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

Fall. 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 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) 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.

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—adaptive use, documentation and tools for preservation; a project based on field research.

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.
- 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.
- 814. Research Methods in Urban Planning: Basic Quantitative Techniques**
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 Process Theory**
Winter. 3(3-0) Approval of school.
Planning as a decision-making process, methods for defining goals in public and private planning programs, role of planning in public policy, formulation, planning for positive human-environment relationships.
- 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.
- 828. Planning Presentation Techniques**
Fall. 3(1-4) 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.
- 830. Development Project Evaluation**
Spring. 3(2-2) Approval of school.
Planning evaluation methods and processes employed in the review of urban development proposals and projects, site plans, and public policies.

- 834. Planning Practicum I: Field Studies**
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 Practicum II: Plan Making and Implementation**
Winter. 3(0-6) U P 834.
Based on study and research done in U P 834, the preparation of plans appropriate to the study area and subject. The design of statutory measures and administrative policies for implementation.
- 836. Introduction to Design**
Winter. 3(0-6) U P 828 or approval of school.
Studio course emphasizing the role of planning in shaping the process of urban growth and development, and the role of physical form and structure in influencing cultural patterns.
- 840. Administration and Professional Practice**
Winter of even-numbered years. 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.
- 842. An International Comparative Study of Urban Planning**
Winter of odd-numbered years. 3(3-0)
Urban growth patterns; types, roles 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 partner to public action through conservation, rehabilitation, and redevelopment practices. Evaluation of trends and needs; analysis of case studies.
- 854. Urban Transportation Planning**
Spring of even-numbered years. 5(2-6) Approval of school.
Examination of travel, land use, and transportation networks. Transportation planning data, processes, and plans, and their implication on theory and practice of metropolitan planning. Field work in current transportation issues.
- 858. Urban Land Policy and Regulation**
Spring of odd-numbered years. 5(2-6) Approval of school.
Public land use policy and legislation, and implementing 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 objectives will be developed and one or more project areas will be studied and processed in accordance with most effective techniques and administrative procedures. Emphasis to be placed on the objective of unified, revitalized community development.
- 889. 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. Graduate students in Urban Planning; approval of school.
Individual experience in approved agencies and departments in the Lansing area.
- 897. Special Topics in Urban Planning**
Fall. 2(2-0) May reenroll for a maximum of 6 credits if different topic is taken.
Issues pertaining to urban planning as they arise out of current research, planning practice or the interplay of national issues and urban problems.
- 898. Master's Research**
Fall, Winter, Spring, Summer. 2 or 3 credits. Approval of school.
The research component of the Plan B option for the MUP degree.
- 899. Master's Thesis Research**
Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 15 credits. Approval of school.

Landscape Architecture

LA

- 100. Environmental Perception**
Fall. 3(3-0)
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, Spring. 4(2-4)
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**
Fall. 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**
Winter. 3(3-0)
Elements, principles and concepts for site development, including use area organization, orientation and siting of buildings, circulation and parking systems, spatial definitions, and detail design considerations.

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of
Courses**

- 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; L A 120.
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 elements and systems; and siting of buildings.
- 321. Advanced Graphic Communication**
Spring. 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.
- 332. Site Engineering**
(432.) Fall. 3(2-2) Majors.
Principles and procedures for design of site development systems, horizontal and vertical road alignments, storm and sanitary sewers, site utilities and computer applications for preparation of site construction drawings.
- 333. Site Construction**
Fall. 4(2-4) Junior majors.
Materials and methods for construction of landscape developments, including details, layouts, construction drawings, specifications and 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) L A 341.
Application of site planning principles and landscape design methods to representative site development projects, with emphasis on housing and recreational requirements and opportunities.
- 348. Public Site Design**
Spring. 4(1-6) L A 346.
Application of site planning principles and landscape design methods to comprehensive site development projects, with emphasis on public and institutional requirements and opportunities.
- 353. Planting Plans**
Winter. 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, and soil and water conservation, as expressed by planting plans and specifications.
- 370. History of Environmental Development**
Fall. 3(2-2)
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.
- 390. Landscape Architecture Field Studies**
Fall, Winter, Spring. 2 to 4 credits. May reenroll for a maximum of 8 credits. Approval of school.
Field trips to contemporary and historical site and regional zones within or outside the United States. Prior and post study required.
- 401. Landscape Management**
Winter. 3(3-0)
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. 3(3-0)
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. 4(1-6) L A 321.
Applications of advanced sketching, perspective and rendering techniques for typical professional presentations, including prints, reproductions, photography and multi-media audiovisual communications.
- 437. Design Implementation**
Winter. 4(1-6) Senior majors, L A 480 concurrently.
Preparation of a complete package of contract documents for a representative site development project, including typical construction drawings, specifications and cost estimates.
- 442. Comprehensive Landscape Design**
Spring. 6(1-10) L A senior major.
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.
- 480. Professional Practice**
Winter. 3(2-2) Senior majors, L A 437 concurrently.
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(2-2) Senior majors.
Research presentation and discussion of significant current issues, trends, events and opportunities relating to contemporary theories and practices of landscape architecture.
- 489. Landscape Architecture Internship**
Fall, Winter, Spring, Summer. 2(0-8) or 3(0-12) or 4(0-16) May reenroll for a maximum of 8 credits. Juniors, approval of school.
Supervised experience in approved public agencies and professional offices. Bi-weekly conferences.
- 490. Special Problems**
Fall, Winter, Spring, Summer. 2 to 5 credits. May reenroll for a maximum of 12 credits. Approval of school.
Investigation, for advanced undergraduate students in landscape architecture, developed from special interest areas.
- 499. Landscape Architecture Design Thesis**
Fall. 4(0-8) L A Senior major.
Demonstration of analytical, creative and technical competencies in the development of methods and/or concepts leading to design solutions for contemporary landscape architecture problems.

**VETERINARY MEDICINE V M
(COLLEGE OF)**

- 511. 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.
- 517. Perspectives in Veterinary Medicine**
Fall. 1(1-0) First-term Veterinary Medicine students.
Ethical principles, historical background and organization of the veterinary profession.
- 521. Introduction to Veterinary Medicine II**
(500B.) Spring. 4(3-4) Third-term Veterinary Medicine students.
Restraint, physical examination and diagnostic procedures in food animals and horses. Fundamentals of equine conformation, gaits, shoeing and routine medical care.