

Descriptions – URBAN PLANNING AND LANDSCAPE ARCHITECTURE

of

Courses

URBAN PLANNING AND LANDSCAPE ARCHITECTURE

College of Social Science

Urban Planning

UP

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(4-0)

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

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

Spring. 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. 5(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(3-0) 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

Fall. 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. 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

Fall. 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 s 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. Man and His Shelter

Fall, Spring, Summer. 3(3-0)

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.

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 363.

Collection, analysis and synthesis of planning information for an established urban area and region. Formulation of comprehensive physical development policies and plans 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.

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 situation, problems of comprehension, description, 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.

- 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**
(802.) 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**
(830.) 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 Practicum 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 Practicum II**
Winter. 3(0-6) U P 834.
Continuation of U P 834.
- 836. Introduction to Design**
(803.) Winter. 4(0-8) U P 824 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 man's cultural patterns.
- 840. Administration and Professional Practice**
(832.) 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**
(813.) 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 even-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**
(801C.) 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.
- 866. Urban Spatial Design**
(801A.) Spring of odd-numbered years. 5(0-10) 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.
- 870. Regional and State Planning**
(801B.) Spring of odd-numbered years. 5(2-6) Approval of school.
Selected problems of metropolitan functions of present and future significance. Intra and interregional relationships of primary functional importance; such as, open spaces, economic development, community patterns, transportation, and associated land uses.
- 874. Health Issues and the Urban Planner**
Spring of odd-numbered years. 5(2-6) Approval of school.
Relationships between the practices and concerns of urban planners and the health of individuals.
- 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, Winter. 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.

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of Courses

201. Site Planning

Spring. 3(2-2)

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.

204. Landscape Inventories

Winter. 3(2-2)

Types, sources and interpretations of natural, cultural and perceptual data necessary for the understanding of site characteristics and making effective use determinations.

230. Landform Design

Winter. 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

Spring. 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.

306. Site Systems

Winter. 3(3-0)

Concepts, principles and practices of comprehensive site development, including ecological, cultural and physical considerations and controls with emphasis on housing and recreational types of projects and requirements.

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.

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, Spring. 2(1-2) May reenroll for a maximum of 4 credits. Approval of school.

A 3 to 5 day field trip to visit contemporary and historical developments and various regional zones. Prior and post study required.

401. Landscape Management

Spring. 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

Fall. 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 audio-visual communications.

432. Site Engineering

Fall. 4(2-4) 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.

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.

441. Regional Landscape Design

Winter. 4(1-6) Senior majors.

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

Fall. 4(1-6) Senior majors.

Applications of urban design theory and landscape design methods to representative urban development projects, public plazas, pedestrian malls, civic and cultural complexes, etc., with written, oral and graphic representations. Field trips required.

463. Architectural Design II

Fall. 4(1-6) Majors.

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

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

Spring, Summer. 4(0-8) L A 441, L A 443.

Demonstration of analytical, creative and technical competencies in the development of methods and/or concepts leading to design solutions for contemporary landscape architecture problems.