URBAN PLANNING

Department of Geography
College of Social Science

100  The City
Fall, Spring. 3(3-0)
Evolution, character, dimensions and elements of cities.

201  The Role of Planning in Urban and Regional Development
Fall, Spring. 4(4-0)
Contemporary urban issues, historical contexts, and the role of planning in the solutions of the problems faced by cities and their surrounding regions.

314  Methods for Investigation of Urban Systems
Spring. 4(3-2) Interdepartmental with Geography. P.M.: (STT 201 and CSE 101) RB: (UP 201)
Models, approaches, and techniques for urban and regional problem analysis, research, program evaluation, and project management. Application of related computer software.

324  Visual Communication and the Design Process
Fall. 4(2-4) P.M: (UP 201 or concurrently) R: Open only to sophomores or juniors or seniors in Urban and Regional Planning.
Expressing concepts in visual terms for solutions to physical planning projects: graphic techniques and reproduction. Using the design process for solving land use problems: inventory, analysis, synthesis, community input and strategies for implementation.

343  Planning Theory: Ethics and Politics (W)
Spring. 4(4-0) P.M: (UP 201 or concurrently) and completion of Tier I writing requirement. R: Open only to sophomores or juniors or seniors in the College of Social Science.
Political impact of community decision-making on planning. Ethics and values of professional practice. Gender, equity, and diversity issues within this context will be explored.

353  Land Use Planning
Fall. 4(4-0) P.M: (UP 201 or concurrently) RB: (PLS 100)
Principles and techniques of land use planning, including role of social, economic and political systems. Comprehensive planning, neighborhood/sector planning, practical tools for land regulation and environmentally sensitive development.

365  Planning Law (W)
Spring. 3(3-0) P.M: (UP 201 and UP 323) and completion of Tier I writing requirement. R: Open only to juniors or seniors in Urban and Regional Planning or Interdisciplinary Studies in Social Science majors.
Statutory and case law for local government planning and development regulation.

400  Special Topics in Urban Planning
Fall of odd years. 2 to 4 credits. R: Open only to juniors or seniors in Urban and Regional Planning.
Issues and problems in contemporary urban planning.

408  Comparative Urban Development Planning
Spring. 3(3-0) P.M: (UP 201) R: Open only to majors in Urban and Regional Planning, or Urban and Regional Planning-Urban Studies.
Community planning concepts and practices, tools and techniques in different countries. Case studies.

413  Urban Geography
Fall. 3(3-0) Interdepartmental with Geography. Administered by Department of Geography. R: Not open to freshmen or sophomores.
Theories and models of urban spatial form. Underlying structures and processes. Socio-spatial dimensions of modern urbanism. Differentiation and locational conflict in residential, commercial, and industrial space.

414  Geography of Transportation
Fall. 3(3-0) Interdepartmental with Geography. Administered by Department of Geography. P.M: (GEO 113) R: Not open to freshmen or sophomores.
Spatial principles of transportation. Theories of interaction, network structures, and location-allocation models. Role of transport and transport planning.

415  Location Theory and Land Use Analysis
Fall. 3(3-0) Interdepartmental with Geography. Administered by Department of Geography. P.M: (GEO 113 or UP 201) RB: One of the prerequisites or an introductory ECON course. R: Not open to freshmen or sophomores.

418  The Ghetto
Fall of odd years. 3(3-0) Interdepartmental with Geography. Administered by Department of Geography. R: Not open to freshmen or sophomores.
Analysis of the ghetto including its spatial organization and structure. Distribution of racial and ethnic populations. Emphasis on U.S. cities.

425  Geographic Information Systems
Spring. 4(3-2) Interdepartmental with Geography. Administered by Department of Geography. P.M: (GEO 221)
Technical and theoretical issues in the design, evaluation, and implementation of geographic information systems for research and application.

437  Urban Design
Fall of even years. 3(1-4) R: Not open to freshmen or sophomores.
Urban design theory and application of physical design principles at various scales. Design of urban open space systems, building groupings, urban linkage, and site details in studio projects.

439  Golf Course Planning and Design
Fall of even years. 3(3-0) Interdepartmental with Landscape Architecture. P.NM: (LA 342) R: Open only to seniors or graduate students in Urban and Regional Planning or Urban and Regional Planning-Urban Studies or Landscape Architecture.
History, planning, and design of the golf course as a component of the community. Environmental, regulatory, technical, and financing issues.

454  Local Economic Planning
Fall. 3(3-0) P.M: (UP 353 and GC 201) RB: (UP 201) R: Open only to seniors in the College of Social Science. SA: UP 354
The economic component of comprehensive community planning. Taxation and services delivery. Fiscal health and physical and social development of a community.

457  Local Economic Development
Fall. 3(2-2) R: Open only to juniors or seniors.
Principles and techniques of local economic development planning. Impacts of state, federal, and global economic policies and programs.

458  Housing and Real Estate Development
Spring of even years. 3(2-2)
Real estate development process from idea inception to asset management. Finance, organization, design and implementation. Housing, social impacts, and public sector involvement.

463  Introduction to Quantitative Methods for Geographers and Planners
Fall. 3(3-0) Interdepartmental with Geography. P.NM: Completion of University mathematics requirement. R: Open only to majors in Geography, Urban Planning, and Landscape Architecture.
Quantitative techniques in the analysis and classification of spatial data.

480  Internship in Urban Planning
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to majors in Urban and Regional Planning or Urban and Regional Planning-Urban Studies. Approval of department.
Supervised planning experience in a professional setting.

483  Historic Preservation and Preservation Planning in the U.S.
Fall. 4(4-0) Interdepartmental with Landscape Architecture. R: Not open to freshmen or sophomores. Approval of department.
History and philosophy of the preservation of buildings, structures, and objects significant to the heritage of this nation. Preservation as a planning tool for local governments.

490  Independent Study in Urban Planning
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Approval of department.
Faculty-supervised individual study in aspects of urban planning.

UP–Urban Planning
Urban Planning—UP

494 Planning Practicum
Spring. 4(0-8) P:M: (UP 365 and UP 454)
Collection, analysis and synthesis of planning infor-
mation for an established urban or regional area.
Problem identification and alternative plan formula-
tion. Formulation of comprehensive physical devel-
opment policies and plans, implementation of pro-
grams.

800 Special Topics in Urban Planning
Fall, Spring, Summer. 2 to 4 credits. A stu-
dent may earn a maximum of 6 credits in all
enrollments for this course. R: Open only to
graduate students in Urban and Regional
Planning. Issues and current research in urban planning.

801 Concepts and Issues in Planning and
Development
Fall. 4(4-0)
Urban and regional planning and development. History of the planning profession. Current urban
issues and planning approaches.

814 Applied Research Methods for Planning
and Development
Spring. 3(2-2) Interdepartmental with Geog-
raphy. P:NM: (UP 813) RB: (UP 813) R: Open
only to graduate students in Urban and
Regional Planning, Public Administra-
tion, and Geography. Techniques in urban and regional planning analysis. Forecasting models. Methods of urban project
evaluation.

823 Urban Land Management
Fall. 4(4-0) P:NM: (UP 801 or concurrently)
Concepts, principles, tools, and techniques of urban and
regional land management. Land use planning,
public facilities, infrastructure location, and environ-
mental sensitivity in land management.

834 Urban Design and Project Development
Spring. 3(1-4) P:NM: (UP 801) R: Open only
to graduate students in Urban and Regional
Planning. Design of development projects. Integration of struc-
tures, spaces, activities, and design elements in
various urban settings.

838 Land Use Law
Spring. 3(3-0) Interdepartmental with Re-
source Development; Agricultural Econom-
ics; Forestry, Administered by Department of
Resource Development. P:NM: (RD 430)
Public and private land use controls in the U.S. Civil
rights, housing, energy problems, growth manage-
ment, waste management, and land conservation.
Cases, statutes and other regulations.

844 Decision Theory for Urban Planning and
Development
Spring. 4(4-0) P:NM: (UP 801) or two
graduate courses in the Master of Public
Administration program.
The planning and development process. Decision
making in a political context. Professional ethics and
practice. Gender, class, race and ethnicity in rela-
tionship to planning and development.

848 Urban Policy Analysis
Spring. 3(3-0)
History of national urban policy. Developmental
stages in processing new public policies.

854 Economics of Planning and Development
Spring. 3(3-0) Interdepartmental with Geog-
raphy: P:NM: (UP 801)
The physical urban environment and local economic
development.

865 Planning and Development Law
Fall. 3(3-0) P:NM: (UP 801)
 Constitutional and statutory bases for planning and
development. Effects of case law on design, admini-
stration, and implementation of regulations.

867 Methods and Modeling in Regional
Science
Spring of even years. 3(3-0) Interdepart-
mental with Geography; Resource Devel-
oped. Administered by Department of
Geography. P:NM: (EC 820 and GEO 865)
and (GEO 415 and RD 461)
Techniques for regional research: economic base
analysis, input-output analysis, mathematical pro-
gramming, and econometric and simulation analysis.

868 Growth Management and Environmental
Planning
Fall. 3(3-0) P:NM: (UP 865 or concurrently
and UP 801 or concurrently and UP 823) R: Open
only to graduate students in Urban and
Regional Planning or Urban and Re-
gional Planning-Urban Studies or Geogra-
phy. Principles and techniques of growth management
and environmental planning, with a focus on land
use issues. Selected environmental regulation topics
relevant to planning in urban areas.

889 Master’s Research
Fall, Spring, Summer. 3 credits. P:NM: (UP
897 or concurrently) R: Open only to mas-
ter’s students in the Urban and Regional
Planning major. Approval of department. Supervised individual research for Plan B master’s program.

890 Independent Study
Fall, Spring, Summer. 2 to 4 credits. A stu-
dent may earn a maximum of 8 credits in all
enrollments for this course. R: Approval of
department. Faculty-supervised study in aspects of urban plan-
ning.

893 Internship in Urban Planning
Fall, Spring, Summer. 2 to 4 credits. A stu-
dent may earn a maximum of 8 credits in all
enrollments for this course. R: Approval of
department. Supervised individual experience in approved agen-
dies and departments in the Lancing area.

894 Planning Practicum
Fall. 4(0-8) P:NM: (UP 801 and UP 823 and
UP 865) R: Open only to second-year mas-
ter’s students in the Urban and Regional
Planning major. SA: UP 894A, UP 894B
Professional practice in the collection, analysis and
synthesis of information by students or student
groups under faculty supervision. Developing solu-
tions to specific urban problems.

897 Research Writing Seminar
Fall. 2(2-0) R: Open only to second-year
master’s students in the Urban and Regional
Planning major. Research writing and presentation methods.

899 Master’s Thesis Research
Fall, Spring, Summer. 1 to 4 credits. A stu-
dent may earn a maximum of 12 credits in all
enrollments for this course. P:NM: (UP
897) or concurrently. R: Approval of de-
partment. Master’s thesis research.

VETERINARY MEDICINE

College of Veterinary Medicine

101 Veterinary Medicine in Society
Spring. 1(1-0)
Role of the veterinary profession in animal and
human health. Impact of veterinary medicine on society.

200 Veterinary Systems Biology and Medical
Science I
Spring. 7(5-4) P:M: (CEM 141 and MTH
110) R: Open only to Veterinary Technology
majors.
Multidisciplinary approach to the musculoskeletal
system of animals. Integration of anatomy, physi-
ology, pathophysiology, pharmacology, and nursing
care of animals. Techniques of restraint. Patient
management. Medical record keeping.

201 Veterinary Systems Biology and Medical
Science II
Spring. 7(5-4) P:M: (CEM 141 and MTH
110) R: Open only to Veterinary Technology
majors.
Multidisciplinary approach to the hematopoietic and
cardiovascular systems of animals. Integration of
anatomy, physiology, pathophysiology, pharmacol-
ogy, and nursing care related to health and disease.

290 Special Studies in Veterinary Medicine
Fall, Spring, Summer. 1 to 3 credits. A stu-
dent may earn a maximum of 6 credits in all
enrollments for this course. R: Open only to
Veterinary Technology majors.
Faculty-directed individual study on an experimental,
theoretical or applied problem. May involve a super-
vised off-campus experience.

300 Veterinary Systems Biology and Medical
Science III
Fall. 7(5-4) P:M: (VM 200 and VM 201) and
completion of Tier I writing requirement. R: Open
only to Veterinary Technology majors.
Multidisciplinary approach to the neurologic and
respiratory systems of animals. Integration of anat-
omy, physiology, pathophysiology, pharmacology,
and nursing care related to health and disease.

301 Veterinary Systems Biology and Medical
Science IV
Fall. 7(5-4) P:M: (VM 200 and VM 201) and
completion of Tier I writing requirement. R: Open
only to Veterinary Technology majors.
Multidisciplinary approach to the endogenous and
dience systems of animals. Integration of anat-
omy, physiology, pathophysiology, pharmacology,
and nursing care related to health and disease.

302 Veterinary Systems Biology and Medical
Science V
Spring. 7(5-4) P:M: (VM 300 and VM 301)
and completion of Tier I writing requirement. R: Open only to Veterinary Technology ma-
jors.
Multidisciplinary approach to the gastrointestinal and
integumentary systems of animals. Integration of
anatomy, physiology, pathophysiology, pharmacol-
ogy, and nursing care related to health and disease.