365  Planning Law and Ethics (W)  
Spring. 3(3-0)  
Evolution, character, dimensions and elements of cities.

201  Introduction to Urban and Regional Planning  
Fall, Spring. 4(4-0)  
Urban planning concepts, contemporary urban issues, historical contexts, and the politics and theory of planning.

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

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

100  College of Social Science  
School of Planning, Design and Construction  
URBAN PLANNING  
UP  

353  Land Use Planning  
Fall. 4(4-0) P: UP 201 RB: PLS 100 SA: UP 323  
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 and Ethics (W)  
Spring. 4(4-0) P: (UP 201) and completion of Tier I writing requirement R: Open to juniors or seniors in the Interdisciplinary Studies in Social Science major or in the Urban and Regional Planning major. SA: UP 465  
Legal and ethical concepts and processes involved in planning and development.

400  Special Topics in Urban Planning  
Fall, Spring. 2 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P: Completion of Tier I writing requirement. R: Open to juniors or seniors or graduate students in the Urban and Regional Planning Major. Issues and problems in contemporary urban planning.

413  Urban Geography  
Spring. 3(3-0)  
Interdepartmental with Geography. Administered by 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 of odd years. 3(3-0)  
Interdepartmental with Geography. Administered by Geography. P: GEO 113 R: Not open to freshmen. 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 of odd years. 3(3-0)  
Interdepartmental with Geography. Administered by Geography. P: GEO 113 or UP 201 RB: EC 201 or EC 202 R: Not open to freshmen or sophomores. Classical and neoclassical, static and dynamic models of industrial location and spatial organization. Land rent theory. Central place theory. Multi-local organizational growth. Transition.

418  The Ghetto  
Fall of odd years. 3(3-0)  
Interdepartmental with Geography. Administered by 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.

424  Geographic Information Systems and Design Tools for Planning  
Spring. 3(3-0) R: Open to students in the Master in Urban and Regional Planning or in the Bachelor of Landscape Architecture and open to students in the Environmental Design Program or the College of Design Major. Introduction to geographic information systems and its applicability to planning. Methods and techniques for analyzing land use planning issues.

425  Problems in Geographic Information Science (W)  
Spring. 3(2-2)  
Interdepartmental with Geography. Administered by Geography. P: (GEO 325 or GEO 802) and completion of Tier I writing requirement. An advanced theoretical and technical issues in geographic information science utilizing a problems oriented approach. Development and implementation of geographic information science solutions and formal documentation of work.

433  Introduction to Environmental Planning  
Fall. 4(4-0) P: UP 201 or approval of school R: Open to juniors and open to seniors in the Urban and Regional Planning Major and open to graduate students in the Master in Urban and Regional Planning or approval of school. Nature and magnitude of contemporary environmental issues. Political, social and cultural forces that influence environmental policy and planning. Processes and tools available to planning professionals.

445  Local Economic Planning  
Fall. 3(3-0) P: (UP 353 or concurrently) and EC 201 RB: UP 201 R: Open 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.

455  Urban Sustainability and Climate Change  
Spring of even years. 3(3-0) R: Open to juniors and open to seniors in the Urban and Regional Planning Major or in the Arabic Secondary Teaching Major or approval of school. Urban sustainability in the context of the global climate change, tools for sustainability planning, adaptation to climate change, risk and vulnerability in different climate zones.

458  Housing and Real Estate Development  
Spring. 3(3-0)  
Interdepartmental with Geography. Administered by Urban Planning. R: Open to juniors or seniors in the Geography Major or in the Urban and Regional Planning Major or approval of school. Principles of decision-making in urban transportation planning. Demand and supply analysis, social and environmental impacts, implementation programs. Use of computer models.

478  Urban Transportation Planning  
Spring. 3(3-0)  
Interdepartmental with Geography. Administered by Urban Planning. R: Open to juniors or seniors in the Geography Major or in the Urban and Regional Planning Major or approval of school. Principles of decision-making in urban transportation planning. Demand and supply analysis, social and environmental impacts, implementation programs. Use of computer models.

488  The Sustainable and Climate Resilient City  
Fall of even years. 3(3-0) R: Open to students or the Urban and Regional Planning Major or approval of school. Not open to students with credit in UP 888. Multidisciplinary research in sustainability and climate resilience of urban areas. Characteristics of sustainable and resilient cities, comparative analysis, and international perspective.

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 school. Faculty-supervised individual study in aspects of urban planning.

494  Planning Practicum  
Spring. 4(0-8) P: UP 314 and UP 365 and UP 454 SA: UP 494A, UP 494B  
Collection, analysis and synthesis of planning information for an established urban or regional area. Problem identification and alternative plans formulation. Formulation of comprehensive physical development policies and plans, implementation of programs.

500  Special Topics in Urban Planning  
Fall, Spring, Summer. 2 to 4 credits. A student 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, Summer. 4(4-0)  
Urban and regional planning and development. History of the planning profession. Current urban issues and planning approaches.
Urban Planning—UP

814 Applied Research Methods for Planning and Development  
Spring. 4(3-2) RB: UP 801  
Techniques in urban and regional planning analysis. Forecasting models. Methods of urban project evaluation.

823 Urban Land Management and the Environment  
Fall. 3(3-0) RB: UP 801 or concurrently  
Concepts, principles, tools, and techniques of urban and regional land management. Land use planning, public facilities, infrastructure location, and environmental sensitivity in land management.

824 Geographic Information Systems and Design Tools for Planning  
Spring. 3(0-3) R: Open to graduate students in the Master in Urban and Regional Planning or approval of school.  
Introduction to geographic information systems and its applicability to planning. Methods and techniques for analyzing land use and planning issues.

844 Planning Theory and Ethics  
Spring. 3(3-0) RB: UP 801  
The planning and development process. Decision making in a political context. Professional ethics and practice. Gender, class, race and ethnicity in relationship to planning and development.

854 Economics of Planning and Development  
Spring. 4(0-0) RB: UP 801  
Physical urban environment and local economic development.

855 Urban Sustainability and Climate Change  
Spring of odd years. 3(3-0) R: Open to master's students in the Master in Urban and Regional Planning or approval of school. Not open to students with credit in UP 455.  
Urban sustainability in the context of the global climate change, tools for sustainability planning, adaptation to climate change, risk and vulnerability in different climate zones

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

888 The Sustainable and Climate Resilient City  
Fall of odd years. 3(3-0) R: Open to graduate students in the Master in Urban and Regional Planning or approval of school. Not open to students with credit in UP 488.  
Characteristics of sustainable and resilient cities, comparative analysis, international perspective, cutting-edge multidisciplinary research in sustainability and urban places.

889 Master's Research  
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open to master's students in the Master in Urban and Regional Planning. Approval of school.  
Supervised individual research for Plan B master's.

890 Independent Study  
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Approval of department.  
Faculty-supervised study in aspects of urban planning.

892 Research Seminar in Planning and Construction Management  
Fall. 2(2-0) RB: Second-year master's student in Urban and Regional Planning R: Open to graduate students in the Master in Urban and Regional Planning. SA: UP 897  

893 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: Approval of department.  
Supervised individual experience in approved agencies and departments in the Lansing area.

894 Planning Practicum  
Fall. 4(0-8) RB: (UP 801 and UP 823 and UP 865) and Second-year masters student in Urban and Regional Planning. R: Open only to master'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 solutions to specific urban problems.

899 Master's Thesis Research  
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open to master's students in the Master in Urban and Regional Planning. Approval of school.  
Master's thesis research.