

COURSES RELATING TO URBAN AND REGIONAL PLANNING AT THE UNIVERSITY OF MINNESOTA

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This compendium is intended to assist graduate students at the University of Minnesota who have an interest in the field of urban and regional planning. It is hoped that the listings will be helpful for all students who have interest in this field regardless of their particular major. It is also intended to be a guide for students whose major field is planning.

With the heightened awareness of the need for future growth and development that is sustainable in ecological, economic and social terms, greater and greater interest is evolving in the field of urban and regional planning. Urban and Regional planning is a profession that seeks to apply systematic, interdisciplinary thinking and knowledge to the problems and challenges posed by the interaction of the natural and man-made environment. The field is concerned with the design and development of human settlements based on a firm understanding of their dynamics and interrelationships. Urban planning seeks to manage growth and change to improve the quality of life for all members of society. From its historical concern with city design, land use and public infrastructure, the breadth of planning has expanded such that today it includes economic development, housing, social policy, transportation, and the environment.

The University of Minnesota has many teaching units that offer course work relating to the field of urban and regional planning. The purpose of this compendium is to provide a ready reference for those students—particularly at the graduate level—who wish to take courses that related to various aspects of the field. The compendium is organized into two main sections: first, courses are listed by subject areas within the planning field; second, courses are listed by department. Full descriptions of the courses, together with the instructor's name and any prerequisites, are available in the Graduate School Bulletin: 1997-1999.

At the present time, the only graduate degree in urban and regional planning at the University is offered through the Humphrey Institute. This program leads to the Master of Planning degree and is fully accredited by the Planning Accreditation Board, a national accrediting body sponsored by the American Planning Association, the American Institute of Certified Planners and the Association of Collegiate Schools of Planning.

This compendium was prepared by Margaret Wolfe of the Center for Urban and Regional Affairs working with Professor Richard Bolan, Director of the Master of Planning Program, Humphrey Institute. Questions should be directed to Professor Bolan at (612) 625-8092 (Email: dbolan@hhh.umn.edu).

September 10, 1996

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 Center for Urban and Regional Affairs
 University of Minnesota
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Hubert H. Humphrey Institute of Public Affairs

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UNIVERSITY OF MINNESOTA COURSES RELATING TO URBAN AND REGIONAL PLANNING

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COURSES LISTED BY DEPARTMENT

- [AMERICAN INDIAN STUDIES](#)
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- STRATEGIC MANAGEMENT AND ORGANIZATION
 - WATER RESOURCES SCIENCE
-

AMERICAN INDIAN STUDIES (AmIn)

College of Liberal Arts
102 Scott Hall, 624-1338
David Born, 209 Scott Hall, 624-2556

AmIn 5411. Urban Indian Communities.
AmIn 5422. Change and Development in Indian Communities.

AMERICAN STUDIES (AmSt)

College of Liberal Arts
104 Scott Hall, 624-4190
Riv Ellen Prell, 203 Scott Hall, 624-0017

AmSt 8249, 8250. Material Culture and/or Popular Culture.

ANTHROPOLOGY (Anth)

College of Liberal Arts
215 Ford Hall, 625-3400
L.P. Gerlach, 219 Ford Hall, 625-5542

Anth 5151. Cultural Change and Development.
Anth 5152. Anthropology of Social Movements.
Anth 5153. Urban Anthropology.

APPLIED ECONOMICS (ApEc)

College of Agricultural, Food, and Environmental Sciences
231 Classroom Office Building, 625-1222
Frances Homans, 217F Classroom Office Building, 625-6220;
fhomans@dept.agecon.umn.edu

ApEc 5020. Applied Linear Programming.
ApEc 5600. Land and Water Economics.
ApEc 5620. Regional Economic Analysis.
ApEc 5630. Regional Development Systems.
ApEc 5640. Financing State and Local Governments.
ApEc 5650. Economics of Natural Resource and Environmental Policy.
ApEc 8220. Applied Mathematical Programming.
ApEc 8264. Resource Economics.
ApEc 8270. Applied Welfare Economics and Public Policy.

ARCHITECTURE (Arch)

College of Architecture and Landscape Architecture
110 Architecture, 624-7866
Lee Anderson, 110 Architecture, 624-7866;
landerson@boombox.micro.umn.edu

Arch 5241. Principles of Design Programming.
Arch 5711. Design Principles of the Urban Landscape.
Arch 5724. The Meaning of Place.
Arch 5725. Housing and Values.
Arch 5750. Topics in Urban Design.

ART HISTORY (ArtH)

College of Liberal Arts
107 Jones Hall
Catherine Asher, 209 Jones Hall, 626-8339

ArtH 5435. Modern Architecture.

CIVIL ENGINEERING (CE)

Institute of Technology
122 Civil and Mineral Engineering, 625-9857
Walter Maier, 148 Civil and Mineral Engineering, 625-3016

CE 5099. Preventing Pollution: Innovative Approaches to Environmental Management.
(same as Mgmt 5101, PA 5793, PubH 5150)
CE 5102. Site and Route Engineering.
CE 5210. Introduction to Transportation Systems Analysis.
CE 5401. Water Resources Engineering.
CE 5405. Hydrology and Hydrologic Design.
CE 5500. Analysis and Design of Water Supply Systems.
CE 5501. Analysis and Design of Wastewater Systems.
CE 5510. Solid and Hazardous Waste Management.
CE 5703. Project Management.
CE 8201. Urban Traffic Operations.
CE 8210. Modeling Consumer Choices in Transportation.
CE 8211. Travel Demand Forecasting.
CE 8214. Transportation System Dynamics and Control.
CE 8550. Analysis and Modeling of Aquatic Environments.
CE 8551. Seminar: Models of Aquatic Environments.

CULTURAL STUDIES AND COMPARATIVE LITERATURE (CSCL)

College of Liberal Arts
350 Folwell Hall, 624-8099
W. John Archer, 103 Folwell Hall, 624-3830

CSCL 5102. Cultural Politics.
CSCL 5154. Theoretical Constructions of Space.
CSCL 5256. Suburbia.

DESIGN, HOUSING, AND APPAREL (DHA)

College of Human Ecology
240 McNeal Hall
Denise A. Guerin, 240 McNeal Hall, 626-1257

DHA 5463. Housing Policy. (same as PA 5611)
DHA 5465. Housing in World Perspective I.

DHA 5465. Housing in World Perspective II.
DHA 5467. Housing and the Social Environment.
DHA 5481. Designed Environments for Aging.
DHA 5483. Housing Discrimination.
DHA 5485. Homelessness.
HE 5201. Seminar: Research and Action for Social Change.

ECOLOGY, EVOLUTION, AND BEHAVIOR (EEB)

College of Biological Sciences
100 Ecology, 625-5700
Kathleen Peterson, 223 Snyder Hall, 624-9717

EEB 5004. Earth System: Geosphere/Biosphere Interactions.
EEB 5014. Ecology of Vegetation.
EEB 5601. Limnology.
EEB 5608. Ecosystems: Form and Function.
EEB 5965. Decision Analysis and Modeling in Conservation Biology.

ECONOMICS (Econ)

College of Liberal Arts
1035 Management and Economics, 625-6353
Simran Sahi, 1035 Management and Economics, 625-6353

Econ 5301. Economic Development. (for non-majors)
Econ 5623. Housing Markets and Public Policy.
Econ 5821. Introduction to Public Economics.
Econ 5831. Cost-Benefit Analysis.
Econ 8311. Economic Growth and Development Theory.
Econ 8313. Human Resources and Development.
Econ 8801, 8802, 8803. Public Economics.

EDUCATIONAL POLICY AND ADMINISTRATION (EdPa)

College of Education and Human Development
330 Wulling Hall
Ayers Bagley, 624-9060

EdPa 5209. Education in Future Social Systems.
EdPa 5210. Social Forecasting and Educational Futures.
EdPa 5211. Social Design and Educational Futures.
EdPa 5226. Educational Facilities Planning.
EdPa 5260. Introduction to Educational Planning.
EdPa 8248. Metropolitan School Governance.

ENVIRONMENTAL AND OCCUPATIONAL HEALTH (PubH)

School of Public Health
1151 Mayo Memorial Building, 626-0900
Kathleen Soupir, 807 Mayo, 625-0622

PubH 5027. Community and Environmental Approaches to Health Behavior Change.
PubH 5150. Preventing Pollution: Innovative Approaches to Environmental Management.
(same as CE 5099, HSem 3030, Mgmt 5101, PA 5793)

PubH 5152. Environmental Health.
PubH 5181. Air Pollution.
PubH 5253. Introduction to Hazardous Waste Management.
PubH 5261. General Environmental Toxicology.
PubH 5731. Public Health Program Planning and Grant Writing.

FISHERIES AND WILDLIFE (FW)

College of Natural Resources
200 Hodson Hall, 624-3600
Ira Adelman, 204 Hodson Hall, 624-4228

FW 5603. Wildlife Habitats and Management.
FW 5604. Fisheries Ecology and Management.
FW 5620. Geographical Information Systems (GIS) for Fisheries, Wildlife, and Biological Conservation.
FW 8452. Conservation Biology: Genetic and Demographic Issues.

FOREST RESOURCES (FR)

College of Natural Resources
115 Green Hall, 624-3400
Alan Ek, 115 Green Hall, 624-3400, aek@forestry.umn.edu

FR 5102. Forest Wildlife Habitat Management.
FR 5104. Forest Ecology.
FR 5114. Forest Hydrology and Watershed Management.
FR 5130. Geographic Information Systems in Natural Resource Analysis.
FR 5222. Forest Resources Inventory.
FR 5232. Management of Recreational Lands.
FR 5236. Forest Recreation Planning.
FR 5257. Recreation Land Policy.
FR 5262. Remote Sensing of Natural Resources.
FR 5460. Water Quality: The International Dimension.
FR 5500. Urban Forest Management.
FR 5704. Colloquium in Natural Resources.

GEOGRAPHY (Geog)

College of Liberal Arts
414 Social Sciences, 625-6080
John S. Adams, 414 Social Sciences, 625-0571

Geog 5371. North American Cities. (same as Pa 5692)
Geog 5372. Metropolitan Analysis I: Population and Housing. (same as PA 5602)
Geog 5373. Metropolitan Analysis II: Urban Economic Geography. (same as PA 5603)
Geog 5562. Introduction to Geographic Information Systems. (same as Pa 5623)
Geog 5563. Advanced Geographic Information Systems.
Geog 5564. Urban Geographic Information Systems and Analysis.
Geog 5565. Geographical Analysis of Environmental Systems and Global Change.
Geog 5601. Introduction to Land Use Planning. (same as PA 5601)
Geog 5605. Geographical Perspectives on Urban Planning I.
Geog 5606. Geographical Perspectives on Urban Planning II.
Geog 5856. The Meanings of Place.

Geog 8344. Federal Public Land Policy.

GEOLOGY AND GEOPHYSICS (Geo)

Newton Horace Winchell School of Earth Sciences, Institute of Technology
106 Pillsbury Hall, 624-1333
H.O. Pfannkuch, 2D Pillsbury Hall, 624-1620

Geo 5108. Advanced Environmental Geology.

Geo 5261. Glacial Geology.

HISTORY OF SCIENCE AND TECHNOLOGY (HSci)

Institute of Technology
Arthur Norberg, 4-213 Electrical Engineering/Computer Science, 625-1067

HSci 5244. History of Ecology and Environmentalism.

HORTICULTURAL SCIENCE (Hort)

College of Agricultural, Food, and Environmental Sciences
305 Alderman Hall, 624-5300
Evonne Kuyper, 305 Alderman Hall, 624-4242

Hort 8045. Plant Response to Environmental Stress.

INDUSTRIAL RELATIONS

Curtis L. Carlson School of Management
537 Management/Economics
John Fossum, 624-0092

IR 5002. Systems of Conflict and Dispute Resolution.

IR 8027. Dispute Resolution Practices: Mediation, Fact Finding and Arbitration.

INTERDEPARTMENTAL STUDY (ID)

College of Liberal Arts
220 Johnston Hall, 624-7577
Lisa Murphy, 220 Johnston Hall, 624-7577

ID 5525-5526. Garbage, Government, and the Globe.

JOURNALISM AND MASS COMMUNICATION (Jour)

College of Liberal Arts
111 Murphy Hall
Linda Wilson, 111 Murphy Hall, 625-8095

Jour 5721. Mass Media and U.S. Society.

Jour 8651. Seminar: Mass Media and Social Change.

LANDSCAPE ARCHITECTURE (LA)

College of Architecture and Landscape Architecture
125 Architecture, 625-6860
John Koepke, 125 Architecture, 625-6068

LA 5140. Interdisciplinary Studies in Landscape Architecture.
LA 5201. Field Techniques for Landscape Analysis.
LA 5202. Landscape Ecology.
LA 5212. Ecological Informants of Design.
LA 5562. Introduction to Geographical Information Systems.
LA 5571. Landscape Construction: Landform Systems.
LA 5572. Landscape Construction: Spatial Performance.
LA 8110. Graduate Landscape Planning and Design.
LA 8111. Directed Studio in Landscape Architecture.
LA 8222. The Landscape Architectural Design of Community Places.
LA 8223. Regional Landscape Design.
LA 8231. Urban Design Landscape.
LA 8234. Graduate Landscape Planning and Design.
LA 8804. Landscape Ecology and Design.

LAW SCHOOL (Law)

285 Law Building, 625-1000
Daniel Farber, 350 Law Building, 625-1022

Law 5215. Environmental Law.
Law 5833. Alternative Dispute Resolution.
Law 5885. Advanced Environmental Law.

NATURAL RESOURCES AND ENVIRONMENTAL STUDIES (NRES)

College of Natural Resources
John V. Bell, 135 Natural Resources Administration Building, 624-6768

NRES 5001. Colloquium in Natural Resources and Environmental Studies.
NRES 5020. Plant Resource Management and the Environment.
NRES 5060. [3060] Water Quality in Natural Resource Management.
NRES 5100. Problem Solving in Natural Resources and Environmental Studies.
NRES 5101. Integrated Natural Resource Management.
NRES 5102. GIS for Problem Solving in Environmental Science and Management.
NRES 5210. Survey, Measurement, and Modeling Methods for Natural Resources I.
NRES 5220. Survey Measurement and Modeling Methods for Natural Resources II.
NRES 5240. Natural Resources Policy and Administration.
NRES 5242. Management of Natural Resources Conflict.
NRES 5245. Fundamentals of Landscape Planning for Recreation.
NRES 5260. Economics and Natural Resources Management.
NRES 5575. Wetlands Conservation.
NRES 5703. Agroforestry: Role in Watershed Management.

PHILOSOPHY (Phil)

College of Liberal Arts
355 Ford Hall
C. Kenneth Waters, 385 Ford Hall, 625-4325

Phil 5321. Theories of Justice.
Phil 5414. Political Philosophy.
Phil 5603. Scientific Explanation.
Phil 5607. Philosophy of Biology.

Phil 5611. Philosophy of the Social Sciences.

POLITICAL SCIENCE (Pol)

College of Liberal Arts

1414 Social Sciences, 624-4144

Martin Sampson, 1414 Social Sciences, 624-4144

Pol 5315. State Government and Politics.

Pol 5327. Local Government and Politics.

Pol 8124. Game Theory.

Pol 8321. Urban Politics.

Pol 8325. State Government and Intergovernmental Relations.

Pol 8633. Comparative Sociopolitical Change.

PSYCHOLOGY (Psy)

College of Liberal Arts

N-218 Elliot Hall

John Campbell, 625-9351

Psy 5202. Attitudes and Social Behavior.

Psy 5205. Applied Social Psychology.

PUBLIC AFFAIRS (PA)

Hubert H. Humphrey Institute of Public Affairs

130 HHH Center, 625-9505

Richard S. Bolan, 231 HHH Center, 625-8029

PA 5001, Sect. 2. Politics, Planning and Decision-Making.

PA 5021, Sect. 2. Quantitative Methods in Public Affairs and Planning I.

PA 5022, Sect. 2. Quantitative Methods in Public Affairs and Planning II.

PA 5114. Conflict Management: Theory and Practice.

PA 5121-5122. Public Budgeting I-II.

PA 5125. State and Local Public Finance.

PA 5200. Introduction to Planning.

PA 5201. Planning Theory.

PA 5211. Group Techniques in Public Affairs and Planning.

PA 5221. Law and Urban Affairs.

PA 5230. Strategic Planning and Management.

PA 5231. Strategy and Tactics in Project Planning.

PA 5251. Environmental Planning.

PA 5291 Urban Transportation Policy and Planning

PA 5294. International Urbanization and Urban Planning.

PA 5301. Population and Policy in Developing Countries and the U.S.

PA 5493. Remedies to Racial and Ethnic Economic Inequality.

PA 5501. Economic Development I.

PA 5502. Economic Development II.

PA 5511. Community-Based Community and Economic Development.

PA 5522. Development Planning and Policy Analysis.

PA 5592. State and Local Economic Strategies Workshop.

PA 5601. Land Use. (same as Geog 5601)

PA 5602. Metro Analysis I: Population and Housing. (same as Geog 5372)

- PA 5603. Metro Analysis II: Urban Economic Geography. (same as Geog 5373)
- PA 5611. Housing Policy. (same as DHA 5463)
- PA 5622. Managing Urban Growth and Change.
- PA 5623. Geographic Information Systems. (same as Geog 5562)
- PA 5692. North American Cities. (same as Geog 5371)
- PA 5721. Environmental Policy.
- PA 5731. Technology Policy.
- PA 5741. Economics of Environmental and Resource Policy.
- PA 5793. Preventing Pollution: Innovative Approaches to Environmental Management.
(same as CE 5099, Mgmt 5101, PubH 5150)
- PA 5892. Strategies for Sustainable Development.
- PA 5901. Computer Applications in Public Affairs.
- PA 8998. Seminar: Leadership and Professional Practice in Public Affairs

RECREATION, PARK, AND LEISURE STUDIES (Rec)

College of Education and Human Development
209 Cooke Hall, 625-5300
Leo H. McAvoy, 203 Cooke Hall, 625-5887

- Rec 5100. Foundations of Recreation.
- Rec 5111. Sports Facilities.
- Rec 5160. Recreation Land Policy.
- Rec 5190. Commercial Recreation and Tourism.
- Rec 5250. Financing Leisure Services.
- Rec 5288. Grant Writing in Human Services.
- Rec 5750. Legal Issues in Leisure Services.

SOCIAL WORK (SW)

College of Human Ecology
Nancy Johnston, 400 Ford Hall, 624-1893

- SW 5026. Mediation and Conflict Resolution.
- SW 5027. Peace and Justice as Societal Values.
- SW 5349. Social Welfare in America.
- SW 8305. Community Development.
- SW 8350. Planned Social Change.

SOCIOLOGY (Soc)

College of Liberal Arts
909 Social Sciences, 624-4300
Katherine Frank, 909 Social Sciences, 624-7326

- Soc 5305. Environmental Sociology.
- Soc 5311. Sociology of Conflict.
- Soc 5401. Social Organization.
- Soc 5555. Population Theory.

SOIL, WATER, AND CLIMATE (Soil)

College of Agricultural, Food, and Environmental Sciences
439 Borlaug Hall, 625-1244
Terence H. Cooper, 439 Borlaug Hall, 625-7747

Soil 5100. Problem Solving for Environmental Science.
Soil 5600. Principles of Waste Management.

SPEECH-COMMUNICATION (Spch)

College of Liberal Arts
460 Folwell Hall
Robert Scott, 435 Folwell Hall, 624-6832

Spch 5402. Problems in Interpersonal Communication.
Spch 5411. Small Group Communication Theory.
Spch 5431. The Process of Persuasion.
Spch 5625. Issues in Communication Ethics.

STRATEGIC MANAGEMENT AND ORGANIZATION (Mgmt)

Carlson School of Management
835 Management and Economics, 624-5232
A. Marcus, 871 Management and Economics, 624-2812

Mgmt 5101. Preventing Pollution: Innovative Approaches to Environmental Management.
(same as CE 5099, HSem 3030, PA 5793, PubH 5150)

WATER RESOURCES SCIENCE (WRS)

Graduate School
Room 302, 1518 Cleveland Ave N
Patrick Brezonik, 624-9282;
brezo001@tc.umn.edu

WRS 5010. Introduction into Field Research in Water Resources.
WRS 5101. Water Resources: Individuals and Institutions.
WRS 8100. Interdisciplinary Seminar in Water Resources.

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 - [NEIGHBORHOOD PLANNING](#)
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 - [POLLUTION AND WASTE MANAGEMENT](#)
 - [POPULATION AND DEMOGRAPHY](#)
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COMMUNICATION

Speech-Communication (Spch)

- Spch 5402. Problems in Interpersonal Communication.
 Spch 5411. Small Group Communication Theory.
 Spch 5431. The Process of Persuasion.
 Spch 5625. Issues in Communication Ethics.

CONFLICT MANAGEMENT***International Relations (IR)***

- IR 5002. Systems of Conflict and Dispute Resolution.
 IR 8027. Dispute Resolution Practices: Mediation, Fact Finding and Arbitration.

Law School (Law)

- Law 5833. Alternative Dispute Resolution.

Natural Resources and Environmental Sciences (NRES)

- NRES 5242. Management of Natural Resources Conflict.

Public Affairs (PA)

- PA 5114. Conflict Management: Theory and Practice.

Social Work (SW)

- SW 5026. Mediation and Conflict Resolution.

Sociology (Soc)

- Soc 5311. Sociology of Conflict.

CULTURE AND SOCIETY***Afro-American Studies (Afro)***

- Afro 5072. Racism: Social-Psychological Consequences for Black Americans.
 Afro 5200. Black Americans and Mental Health.
 Afro 5352. Black Families in Comparative Perspective.

American Indian Studies (AmIn)

- AmIn 5411. Urban Indian Communities.
 AmIn 5422. Change and Development in Indian Communities.

American Studies (AmSt)

- AmSt 8249, 8250. Material Culture and/or Popular Culture.

Anthropology (Anth)

- Anth 5151. Cultural Change and Development.
 Anth 5152. Anthropology of Social Movements.
 Anth 5153. Urban Anthropology.

Architecture (Arch)

- Arch 5725. Housing and Values.

Art History (ArtH)

- ArtH 5435. Modern Architecture.

Chicano Studies (Chic)

- Chic 5901. Chicano Studies: Theory and Methodology.

Cultural Studies and Comparative Literature (CSCL)

- CSCL 5102. Cultural Politics.
 CSCL 5256. Suburbia.

Design, Housing and Apparel (DHA)

- DHA 5465. Housing in World Perspective I.
 DHA 5465. Housing in World Perspective II.
 DHA 5467. Housing and the Social Environment.
 DHA 5481. Designed Environments for Aging.

DHA 5483. Housing Discrimination.
 DHA 5485. Homelessness.
 HE 5201. Seminar: Research and Action for Social Change.
Educational Policy and Administration (EdPa)
 EdPa 5209. Education in Future Social Systems.
 EdPa 5210. Social Forecasting and Educational Futures.
 EdPa 5211. Social Design and Educational Futures.
Environmental and Occupational Health (PubH)
 PubH 5027. Community and Environmental Approaches to Health Behavior Change.
Geography (Geog)
 Geog 5371. North American Cities.
 Geog 5856. The Meanings of Place.
Journalism (Jour)
 Jour 5721. Mass Media and U.S. Society.
 Jour 8651. Seminar: Mass Media and Social Change.
Philosophy (Phil)
 Phil 5607. Philosophy of Biology.
Psychology (Psy)
 Psy 5202. Attitudes and Social Behavior.
 Psy 5205. Applied Social Psychology.
Public Affairs (PA)
 PA 5493. Remedies to Racial and Ethnic Economic Inequality.
 PA 5692. North American Cities
Social Work (SW)
 SW 5027. Peace and Justice as Societal Values.
 SW 5349. Social Welfare in America.
Sociology (Soc)
 Soc 5305. Environmental Sociology.

ECONOMIC DEVELOPMENT

American Indian Studies (AmIn)
 AmIn 5422. Change and Development in Indian Communities.
Anthropology (Anth)
 Anth 5151. Cultural Change and Development.
 Anth 5153. Urban Anthropology.
Applied Economics (ApEc)
 ApEc 5620. Regional Economic Analysis.
 ApEc 5630. Regional Development Systems.
 ApEc 8220. Applied Mathematical Programming.
 ApEc 8270. Applied Welfare Economics and Public Policy.
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 Econ 8313. Human Resources and Development.
Geography (Geog)
 Geog 5371. North American Cities.
 Geog 5373. Metropolitan Analysis II: Urban Economic Geography.
 Geog 5601. Introduction to Land Use Planning.
Public Affairs (PA)
 PA 5501. Economic Development I.
 PA 5502. Economic Development II.

PA 5511. Community-Based Community and Economic Development
PA 5522. Development Planning.
PA 5592. State and Local Economic Strategies Workshop.
PA 5601. Land Use.
PA 5603. Metro Analysis II: Urban Economic Geography.
PA 5692. North American Cities.
PA 5731. Technology Policy.
PA 5892. Strategies for Sustainable Development.

EDUCATION

Educational Policy and Administration (EdPa)

EdPa 5209. Education in Future Social Systems.
EdPa 5210. Social Forecasting and Educational Futures.
EdPa 5211. Social Design and Educational Futures.
EdPa 5226. Educational Facilities Planning.
EdPa 5260. Introduction to Educational Planning.
EdPa 8248. Metropolitan School Governance.

ENVIRONMENTAL HEALTH

Environmental and Occupational Health (PubH)

PubH 5027. Community and Environmental Approaches to Health Behavior Change.
PubH 5152. Environmental Health.
PubH 5181. Air Pollution.
PubH 5261. General Environmental Toxicology.

ENVIRONMENTAL PLANNING AND DESIGN

Architecture (Arch)

Arch 5711. Design Principles of the Urban Landscape.

Civil Engineering (CE)

CE 5401. Water Resources Engineering.
CE 5405. Hydrology and Hydrologic Design.
CE 5500. Analysis and Design of Water Supply Systems.
CE 5501. Analysis and Design of Wastewater Systems.
CE 8550. Analysis and Modeling of Aquatic Environments.
CE 8551. Seminar: Models of Aquatic Environments.

Forest Resources (FR)

FR 5236. Forest Recreation Planning.

Landscape Architecture (LA)

LA 5201. Field Techniques for Landscape Analysis.
LA 5202. Landscape Ecology.
LA 5212. Ecological Informants of Design.
LA 8110. Graduate Landscape Planning and Design.
LA 8111. Directed Studio in Landscape Architecture.
LA 8234. Graduate Landscape Planning and Design.
LA 8804. Landscape Ecology and Design.

Natural Resources and Environmental Sciences (NRES)

NRES 5100. Problem Solving in Natural Resources and Environmental Studies.

Public Affairs (PA)

PA 5251. Environmental Planning.
Soil, Water, and Climate (Soil)
 Soil 5100. Problem Solving for Environmental Science.

ENVIRONMENTAL POLICY

Applied Economics (ApEc)

ApEc 5600. Land and Water Economics.
 ApEc 5650. Economics of Natural Resource and Environmental Policy.
 ApEc 8270. Applied Welfare Economics and Public Policy.

Law School (Law)

Law 5215. Environmental Law.
 Law 5885. Advanced Environmental Law.

Natural Resources and Environmental Sciences (NRES)

NRES 5240. Natural Resources Policy and Administration.

Public Affairs (PA)

PA 5721. Environmental Policy.
 PA 5741. Economics of Environmental and Resource Policy.
 PA 5892. Strategies for Sustainable Development.

Sociology (Soc)

Soc 5305. Environmental Sociology.

Water Resources Science (WRS)

WRS 5101. Water Resources: Individuals and Institutions.
 WRS 8100. Interdisciplinary Seminar in Water Resources.

ENVIRONMENTAL SCIENCE

Applied Economics (ApEc)

ApEc 8264. Resource Economics.

Civil Engineering (CE)

CE 8551. Seminar: Models of Aquatic Environments.

Ecology, Evolution, and Behavior (EEB)

EEB 5004. Earth System: Geosphere/Biosphere Interactions.
 EEB 5014. Ecology of Vegetation.
 EEB 5601. Limnology.

EEB 5608. Ecosystems: Form and Function.

EEB 5965. Decision Analysis.

Fisheries and Wildlife (FW)

FW 8452. Conservation Biology: Genetic and Demographic Issues.

Forest Resources (FR)

FR 5104. Forest Ecology.

FR 5262. Remote Sensing of Natural Resources.

FR 5460. Water Quality: The International Dimension.

Geology (Geo)

Geo 5108. Advanced Environmental Geology.

Geo 5261. Glacial Geology.

History of Science and Technology (HSci)

HSci 5244. History of Ecology and Environmentalism.

Horticultural Science (Hort)

Hort 8045. Plant Response to Environmental Stress.

Philosophy (Phil)

Phil 5607. Philosophy of Biology.

Soil, Water, and Climate (Soil)

Soil 5100. Problem Solving for Environmental Science.

Water Resources Science (WRS)

WRS 5010. Introduction into Field Research in Water Resources.

GENERAL***American Studies (AmSt)***

AmSt 8249, 8250. Material Culture and/or Popular Culture.

Public Affairs (PA)

PA 5200. Introduction to Planning.

PA 8998. Seminar: Leadership and Professional Practice in Public Affairs.

GEOGRAPHIC INFORMATION SYSTEMS***Fisheries and Wildlife (FW)***

FW 5620. Geographical Information Systems (GIS) for Fisheries, Wildlife, and Biological Conservation.

Forest Resources (FR)

FR 5130. Geographic Information Systems in Natural Resource Analysis.

Geography (Geog)

Geog 5562. Introduction to Geographic Information Systems.

Geog 5563. Advanced Geographic Information Systems.

Geog 5564. Urban Geographic Information Systems and Analysis.

Landscape Architecture (LA)

LA 5562. Introduction to Geographical Information Systems.

LA 8223. Regional Landscape Design.

Natural Resources and Environmental Sciences (NRES)

NRES 5102. GIS for Problem Solving in Environmental Science and Management.

Public Affairs (PA)

PA 5623. Geographic Information Systems.

HOUSING***Architecture (Arch)***

Arch 5725. Housing and Values.

Design, Housing and Apparel (DHA)

DHA 5463. Housing Policy.

DHA 5465. Housing in World Perspective I.

DHA 5465. Housing in World Perspective II.

DHA 5467. Housing and the Social Environment.

DHA 5481. Designed Environments for Aging.

DHA 5483. Housing Discrimination.

DHA 5485. Homelessness.

Economics (Econ)

Econ 5623. Housing Markets and Public Policy.

Geography (Geog)

Geog 5372. Metropolitan Analysis I: Population and Housing.

Public Affairs (PA)

PA 5602. Metro Analysis I: Population and Housing.

PA 5611. Housing Policy.

INTERNATIONAL PLANNING***Design, Housing and Apparel (DHA)***

DHA 5465. Housing in World Perspective I.

DHA 5465. Housing in World Perspective II.

Forest Resources (FR)

FR 5460. Water Quality: The International Dimension.

Geography (Geog)

Geog 5565. Geographical Analysis of Environmental Systems and Global Change.

Geog 5605. Geographical Perspectives on Urban Planning I.

Geog 5606. Geographical Perspectives on Urban Planning II.

History of Science and Technology (HSci)

HSci 5244. History of Ecology and Environmentalism.

Public Affairs (PA)

PA 5294. International Urbanization and Urban Planning.

PA 5522. Development Planning and Policy Analysis.

PA 5731. Technology Policy.

PA 5892. Strategies for Sustainable Development.

LAND USE***Architecture (Arch)***

Arch 5241. Principles of Design Programming.

Civil Engineering (CE)

CE 5102. Site and Route Engineering.

Cultural Studies and Comparative Literature (CSCL)

CSCL 5154. Theoretical Constructions of Space.

CSCL 5256. Suburbia.

Forest Resources (FR)

FR 5130. Geographic Information Systems in Natural Resource Analysis.

FR 5222. Forest Resources Inventory.

FR 5232. Management of Recreational Lands.

FR 5236. Forest Recreation Planning.

FR 5257. Recreation Land Policy.

FR 5262. Remote Sensing of Natural Resources.

FR 5500. Urban Forest Management.

Geography (Geog)

Geog 5371. North American Cities

Geog 5562. Introduction to Geographic Information Systems

Geog 5563. Advanced Geographic Information Systems.

Geog 5564. Urban Geographic Information Systems and Analysis.

Geog 5601. Introduction to Land Use Planning.

Geog 5605. Geographical Perspectives on Urban Planning I.

Geog 5606. Geographical Perspectives on Urban Planning II.

Geog 5856. The Meanings of Place.

Geog 8344. Federal Public Land Policy.

Landscape Architecture (LA)

LA 5140. Interdisciplinary Studies in Landscape Architecture.

LA 5201. Field Techniques for Landscape Analysis.

LA 5202. Landscape Ecology.

LA 5562. Introduction to Geographical Information Systems.

LA 5571. Landscape Construction: Landform Systems.

LA 5572. Landscape Construction: Spatial Performance.
 LA 8110. Graduate Landscape Planning and Design.
 LA 8111. Directed Studio in Landscape Architecture.
 LA 8222. The Landscape Architectural Design of Community Places.
 LA 8223. Regional Landscape Design.
 LA 8231. Urban Landscape Design.
 LA 8234. Graduate Landscape Planning and Design.
 LA 8804. Landscape Ecology and Design.
Natural Resources and Environmental Sciences (NRES)
 NRES 5102. GIS for Problem Solving in Environmental Science and Management.
 NRES 5245. Fundamentals of Landscape Planning for Recreation.
Public Affairs (PA)
 PA 5251. Environmental Planning.
 PA 5601. Land Use.
 PA 5622. Managing Urban Growth and Change.
 PA 5623. Geographic Information Systems.
 PA 5692. North American Cities.
Recreation (Rec)
 Rec 5100. Foundations of Recreation.
 Rec 5111. Sports Facilities.
 Rec 5160. Recreation Land Policy.
 Rec 5190. Commercial Recreation and Tourism.
 Rec 5750. Legal Issues in Leisure Services.

LEGAL ASPECTS

Applied Economics (ApEc)
 ApEc 5600. Land and Water Economics.
Civil Engineering (CE)
 CE 5510. Solid and Hazardous Waste Management.
Law School (Law)
 Law 5215. Environmental Law.
 Law 5833. Alternative Dispute Resolution.
 Law 5885. Advanced Environmental Law.
Philosophy (Phil)
 Phil 5321. Theories of Justice.
Psychology (Psy)
 Psy 5205. Applied Social Psychology.
Public Affairs (PA)
 PA 5221. Law and Urban Affairs.
Recreation, Park, and Leisure Studies (Rec)
 Rec 5750. Legal Issues in Leisure Services.

METHODOLOGY

Applied Economics (ApEc)
 ApEc 5020. Applied Linear Programming.
 ApEc 8220. Applied Mathematical Programming.
Architecture (Arch)
 Arch 5241. Principles of Design Programming.
 Arch 5750. Topics in Urban Design.
Civil Engineering (CE)

- CE 5102. Site and Route Engineering.
CE 5405. Hydrology and Hydrologic Design.
CE 5500. Analysis and Design of Water Supply Systems.
CE 5501. Analysis and Design of Wastewater Systems.
CE 5510. Solid and Hazardous Waste Management.
CE 8201. Urban Traffic Operations.
CE 8210. Modeling Consumer Choices in Transportation.
CE 8211. Travel Demand Forecasting.
CE 8214. Transportation System Dynamics and Control.
CE 8550. Analysis and Modeling of Aquatic Environments.
CE 8551. Seminar: Models of Aquatic Environments.
Ecology, Evolution, and Behavior (EEB)
EEB 5965. Decision Analysis.
Economics (Econ)
Econ 5831. Cost-Benefit Analysis.
Educational Policy and Administration (EdPa)
EdPa 5260. Introduction to Educational Planning.
Environmental and Occupational Health (PubH)
PubH 5731. Public Health Program Planning and Grant Writing.
Fisheries and Wildlife (FW)
FW 5620. Geographical Information Systems (GIS) for Fisheries, Wildlife, and Biological Conservation.
Forest Resources (FR)
FR 5130. Geographic Information Systems in Natural Resource Analysis.
FR 5222. Forest Resources Inventory.
FR 5262. Remote Sensing of Natural Resources.
Geography (Geog)
Geog 5562. Introduction to Geographic Information Systems.
Geog 5563. Advanced Geographic Information Systems.
Geog 5564. Urban Geographic Information Systems and Analysis.
Geog 5565. Geographical Analysis of Environmental Systems and Global Change.
Landscape Architecture (LA)
LA 5201. Field Techniques for Landscape Analysis.
LA 5562. Introduction to Geographical Information Systems.
LA 5571. Landscape Construction: Landform Systems.
LA 8231. Urban Landscape Design.
Natural Resources and Environmental Sciences (NRES)
NRES 5102. GIS for Problem Solving in Environmental Science and Management.
NRES 5210. Survey, Measurement, and Modeling Methods for Natural Resources I.
NRES 5220. Survey Measurement and Modeling Methods for Natural Resources II.
Philosophy (Phil)
Phil 5603. Scientific Explanation.
Phil 5611. Philosophy of the Social Sciences.
Political Science (Pol)
Pol 8124. Game Theory.
Psychology (Psy)
Psy 5202. Attitudes and Social Behavior.
Public Affairs (PA)
PA 5021, Section 2. Quantitative Methods in Public Affairs and Planning I.
PA 5022, Section 2. Quantitative Methods in Public Affairs and Planning II.
PA 5211. Group Techniques in Public Affairs and Planning.
PA 5230. Strategic Planning and Management.

PA 5522. Development Planning.
 PA 5603. Metro Analysis II: Urban Economic Geography.
 PA 5623. Geographic Information Systems.
 PA 5901. Computer Applications in Public Affairs.
Recreation, Park, and Leisure Studies (Rec)
 Rec 5288. Grant Writing in Human Services.

NATURAL RESOURCE MANAGEMENT

Fisheries and Wildlife (FW)

FW 5603. Wildlife Habitats and Management.
 FW 5604. Fisheries Ecology and Management.
 FW 5620. Geographical Information Systems (GIS) for Fisheries, Wildlife, and Biological Conservation.

Forest Resources (FR)

FR 5102. Forest Wildlife Habitat Management.
 FR 5114. Forest Hydrology and Watershed Management.
 FR 5130. Geographic Information Systems in Natural Resource Analysis.
 FR 5222. Forest Resources Inventory.
 FR 5232. Management of Recreational Lands.
 FR 5257. Recreation Land Policy.
 FR 5460. Water Quality: The International Dimension.
 FR 5500. Urban Forest Management.
 FR 5704. Colloquium in Natural Resources.

Natural Resources and Environmental Sciences (NRES)

NRES 5001. Colloquium in Natural Resources and Environmental Studies.
 NRES 5020. Plant Resource Management and the Environment.
 NRES 5060. [3060]. Water Quality in Natural Resource Management.
 NRES 5100. Problem Solving in Natural Resources and Environmental Studies.
 NRES 5101. Integrated Natural Resource Management.
 NRES 5102. GIS for Problem Solving in Environmental Science and Management.
 NRES 5210. Survey, Measurement, and Modeling Methods for Natural Resources I.
 NRES 5220. Survey Measurement and Modeling Methods for Natural Resources II.
 NRES 5240. Natural Resources Policy and Administration.
 NRES 5242. Management of Natural Resources Conflict.
 NRES 5260. Economics and Natural Resources Management.
 NRES 5575. [3575]. Wetlands Conservation.
 NRES 5703. Agroforestry: Role in Watershed Management.

Water Resources Science (WRS)

WRS 5010. Introduction into Field Research in Water Resources.
 WRS 5101. Water Resources: Individuals and Institutions.
 WRS 8100. Interdisciplinary Seminar in Water Resources.

NEIGHBORHOOD PLANNING

Anthropology (Anth)

Anth 5151. Cultural Change and Development.

Educational Policy and Administration (EdPa)

EdPa 5209. Education in Future Social Systems.
 EdPa 5210. Social Forecasting and Educational Futures.
 EdPa 5211. Social Design and Educational Futures.

Social Work (SW)

SW 8350. Planned Social Change.

PLANNING THEORY See also THEORY***Anthropology (Anth)***

Anth 5151. Cultural Change and Development.

Educational Policy and Administration (EdPa)

EdPa 5209. Education in Future Social Systems.

EdPa 5210. Social Forecasting and Educational Futures.

EdPa 5211. Social Design and Educational Futures.

Public Affairs (PA)

PA 5201. Planning Theory.

Social Work (SW)

SW 8350. Planned Social Change.

POLLUTION AND WASTE MANAGEMENT***Civil Engineering (CE)***

CE 5099. Preventing Pollution: Innovative Approaches to Environmental Management.

CE 5510. Solid and Hazardous Waste Management.

Environmental and Occupational Health (PubH)

PubH 5150. Preventing Pollution: Innovative Approaches to Environmental Management.

PubH 5253. Introduction to Hazardous Waste Management.

Interdepartmental Study (ID)

ID 5525-5526. Garbage, Government, and the Globe.

Public Affairs (PA)

PA 5793. Preventing Pollution: Innovative Approaches to Environmental Management.

Soil, Water, and Climate (Soil)

Soil 5600. Principles of Waste Management.

POPULATION AND DEMOGRAPHY***American Indian Studies (AmIn)***

AmIn 5411. Urban Indian Communities.

American Studies (AmSt)

AmSt 8249, 8250. Material Culture and/or Popular Culture.

Geography (Geog)

Geog 5372. Metropolitan Analysis I: Population and Housing.

History of Science and Technology (HSci)

HSci 5244. History of Ecology and Environmentalism.

Public Affairs (PA)

PA 5301. Population and Policy in Developing Countries and the US.

PA 5602. Metro Analysis I: Population and Housing.

Sociology (Soc)

Soc 5555. Population Theory.

PROJECT PLANNING***Civil Engineering (CE)***

CE 5703. Project Management.

Environmental and Occupational Health (PubH)

PubH 5731. Public Health Program Planning and Grant Writing.
Public Affairs (PA)
 PA 5231. Strategy and Tactics in Project Planning.

PUBLIC FINANCE

Applied Economics (ApEc)
 Economics (Econ) ApEc 5640. Financing State and Local Governments.
 Econ 5821. Introduction to Public Economics.
 Econ 5831. Cost-Benefit Analysis.
 Econ 8801, 8802, 8803. Public Economics.
Public Affairs (PA)
 PA 5121-5122. Public Budgeting I-II.
 PA 5125. State and Local Public Finance.
Recreation, Park, and Leisure Studies (Rec)
 Rec 5250. Financing Leisure Services.

PUBLIC INFRASTRUCTURE

Civil Engineering (CE)
 CE 5500. Analysis and Design of Water Supply Systems.
 CE 5501. Analysis and Design of Wastewater Systems.
 CE 5510. Solid and Hazardous Waste Management.
Educational Policy and Administration (EdPa)
 EdPa 5226. Educational Facilities Planning.

REGIONAL AND METROPOLITAN PLANNING

Applied Economics (ApEc)
 ApEc 5620. Regional Economic Analysis.
 ApEc 5630. Regional Development Systems.
 ApEc 5640. Financing State and Local Governments.
Architecture (Arch)
 Arch 5711. Design Principles of the Urban Landscape.
Educational Policy and Administration (EdPa)
 EdPa 8248. Metropolitan School Governance.
Geography (Geog)
 Geog 5372. Metropolitan Analysis I: Population and Housing.
 Geog 5373. Metropolitan Analysis II: Urban Economic Geography.
Landscape Architecture (LA)
 LA 8223. Regional Landscape Design.
Political Science (Pol)
 Pol 5315. State Government and Politics.
 Pol 5327. Local Government and Politics.
 Pol 8321. Urban Politics.
 Pol 8325. State Government and Intergovernmental Relations.
Public Affairs (PA)
 PA 5592. State and Local Economic Strategies Workshop.
 PA 5602. Metro Analysis I: Population and Housing.
 PA 5603. Metro Analysis II: Urban Economic Geography.
 PA 5622. Managing Urban Growth and Change.

THEORY See also PLANNING THEORY***Anthropology (Anth)***

Anth 5151. Cultural Change and Development.

Applied Economics (ApEc)

ApEc 8270. Applied Welfare Economics and Public Policy.

Design, Housing and Apparel (DHA)

HE 5201. Seminar: Research and Action for Social Change.

Economics (Econ)

Econ 5623. Housing Markets and Public Policy.

Econ 8801, 8802, 8803. Public Economics.

Educational Policy and Administration (EdPa)

EdPa 5209. Education in Future Social Systems.

EdPa 5210. Social Forecasting and Educational Futures.

EdPa 5211. Social Design and Educational Futures.

Geography (Geog)

Geog 5605. Geographical Perspectives on Urban Planning I.

Geog 5606. Geographical Perspectives on Urban Planning II.

Philosophy (Phil)

Phil 5321. Theories of Justice.

Phil 5414. Political Philosophy.

Political Science (Pol)

Pol 8633. Comparative Sociopolitical Change.

Psychology (Psy)

Psy 5202. Attitudes and Social Behavior.

Psy 5205. Applied Social Psychology.

Public Affairs (PA)

PA 5201. Planning Theory.

PA 5211. Group Techniques in Public Affairs and Planning.

PA 5230. Strategic Planning and Management.

PA 5622. Managing Urban Growth and Change.

Social Work (SW)

SW 5027. Peace and Justice as Societal Values.

SW 8305. Community Development.

SW 8350. Planned Social Change.

Sociology (Soc)

Soc 5401. Social Organization.

Soc 5555. Population Theory.

TRANSPORTATION***Civil Engineering (CE)***

CE 5102. Site and Route Engineering.

CE 5210. Introduction to Transportation Systems Analysis.

CE 8201. Urban Traffic Operations.

CE 8210. Modeling Consumer Choices in Transportation.

CE 8211. Travel Demand Forecasting.

CE 8214. Transportation System Dynamics and Control.

URBAN DESIGN***Architecture (Arch)***

Arch 5711. Design Principles of the Urban Landscape.
 Arch 5724. The Meaning of Place.
 Arch 5725. Housing and Values.
 Arch 5750. Topics in Urban Design.
Art History (ArH)
 ArH 5435. Modern Architecture.
Cultural Studies and Comparative Literature (CSCL)
 CSCL 5154. Theoretical Constructions of Space.
 CSCL 5256. Suburbia.
Landscape Architecture (LA)
 LA 5140. Interdisciplinary Studies in Landscape Architecture.
 LA 5572. Landscape Construction: Spatial Performance.
 LA 8110. Graduate Landscape Planning and Design.
 LA 8111. Directed Studio in Landscape Architecture.
 LA 8222. The Landscape Architectural Design of Community Places.
 LA 8231. Urban Landscape Design.
 LA 8234. Graduate Landscape Planning and Design.
 LA 8804. Landscape Ecology and Design.

URBAN PLANNING

American Studies (AmSt)
 AmSt 8249, 8250. Material Culture and/or Popular Culture.
Public Affairs (PA)
 PA 5200. Introduction to Planning.
 PA 5622. Managing Urban Growth and Change.
 PA 8998. Seminar: Leadership and Professional Practice in Public Affairs.

URBAN POLITICAL SYSTEMS

Anthropology (Anth)
 Anth 5153. Urban Anthropology.
Applied Economics (ApEc)
 ApEc 5640. Financing State and Local Governments.
Cultural Studies and Comparative Literature (CSCL)
 CSCL 5102. Cultural Politics.
 CSCL 5256. Suburbia.
Educational Policy and Administration (EdPa)
 EdPa 8248. Metropolitan School Governance.
Political Science (Pol)
 Pol 5315. State Government and Politics.
 Pol 5327. Local Government and Politics.
 Pol 8321. Urban Politics.
 Pol 8325. State Government and Intergovernmental Relations.
Public Affairs (PA)
 PA 5001, Section 2. Politics, Planning and Decision-Making.

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