DEPARTMENT OF LANDSCAPE ARCHITECTURE AND URBAN PLANNING

Landscape Architecture
Landscape architecture is the profession providing landscape planning, design, and management services to enhance and protect natural and built environments. Landscape architecture as a discipline is devoted to understanding and managing the human and environmental forces that change the landscape. Landscape architects plan and design places for the health, safety, and welfare of citizens through systematic decision-making that integrates science, art, and technology. Individual and community quality of life are enhanced by a design process to improve, protect, and create ecologically sustainable, socially equitable, and economically feasible landscapes. Landscape architects work in urban, suburban and wilderness environments. Our graduates have gained distinction for projects as varied in scale as private gardens, residential communities, urban plazas, college campuses, park facilities and regional conservation plans.

The Bachelor in Landscape Architecture (BLA) program is nationally accredited as a professional degree program. The mission of the program is to prepare students to become professional landscape architects in private and public sector practice. Our educational goal is to produce graduates motivated to be leaders in the field and professionals who are intellectually active, broadly-educated citizens and life-long learners.

Urban and Regional Planning
The Bachelor of Science in Urban and Regional Planning degree program emphasizes the social, economic, cultural and natural factors that govern how communities and society are shaped. Coursework provides students with the knowledge and skills needed to develop solutions to community and regional growth and development issues that face our state and nation. Students have an opportunity to specialize in specific aspects of community and regional planning and development issues along with internship and service-learning experiences locally, nationally, and/or internationally.

Enrollment in Landscape Architecture and Urban and Regional Planning Programs
1. Students must have satisfactorily completed at least 54 hours of coursework with a minimum GPR of 2.5 for those courses completed at Texas A&M University to apply for upper level.
2. Students must satisfactorily complete the courses listed below as part of the 54 hours of coursework with a minimum of a 2.5 GPR to be considered to upper level.
3. Student must apply to the upper level through the department. The application is to be submitted the semester or summer session in which all of the above criteria are met.
   - March 1 for Summer admission
   - June 15 for Fall admission
   - October 1 for Spring admission

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Faculty

Anderson, Sammy K, Executive Associate Professor
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 1993

Bardenhagen, Eric K, Assistant Professor
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2011
MLA, Texas A&M University, 1999

Berke, Philip R, Professor
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 1981

Booth, Geoffrey J, Associate Professor
Landscape Architecture & Urban Planning
MA, University of Queensland, 1987

Brody, Samuel, Professor
Landscape Architecture & Urban Planning
PHD, University of North Carolina at Chapel Hill, 2002

Brown, Robert D, Professor
Landscape Architecture & Urban Planning
PHD, University of Guelph, 1985
MLA, University of Guelph, 1982

Cooper, John T, Associate Professor of the Practice
Landscape Architecture & Urban Planning
PHD, University of North Carolina at Chapel Hill, 2004
MUP, Texas A&M University, 1994

Cowell, Robert S, Visiting Assistant Professor
Landscape Architecture & Urban Planning
MA, University of Tennessee, 1999

Dvorak, Bruce D, Associate Professor
Landscape Architecture & Urban Planning
MLA, University of Illinois at Urbana-Champaign, 1994

Giusti, Cecilia H, Associate Professor
Landscape Architecture & Urban Planning
PHD, The University of Texas at Austin, 2001

Huang, Chang S, Associate Professor
Landscape Architecture & Urban Planning
PHD, University of Pennsylvania, 1995
MLA, Pennsylvania State University, 1992

Hurst, Kenneth R, Assistant Lecturer
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2016
MLA, University of Oklahoma, 1988

Jourdan, Dawn E, Professor
Landscape Architecture & Urban Planning
PHD, Florida State University, 2004
MUP, University of Kansas, 2000
JD, University of Kansas, 2000

Kim, Bo Ah, Assistant Lecturer
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2016
MUP, Texas A&M University, 2009

Kim, Hyun Woo, Lecturer
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2015

Lee, Chanam, Professor
Landscape Architecture & Urban Planning
PHD, University of Washington, 2004
MLA, Texas A&M University, 1999

Li, Ming-Han, Professor
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2002
MLA, Texas A&M University, 1998

Li, Wei, Assistant Professor
Landscape Architecture & Urban Planning
MLA, University of California, Irvine, 2011

Lorente, Paula, Assistant Lecturer
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2016
MUP, Texas A&M University, 2005

Martin, June C, Instructional Associate Professor
Landscape Architecture & Urban Planning
MS, University of Georgia, 2002
MPA, University of Georgia, 1991

Merrill, Jeremy, Assistant Professor
Landscape Architecture & Urban Planning
PHD, Kansas State University, 2014
MLA, Kansas State University, 2009

Mickelson, Kimberley, Visiting Associate Professor
Landscape Architecture & Urban Planning
MPA, The University of Texas at Austin, 1986
JD, The University of Texas School of Law, 1986

Ndubisi, Forster O, Professor
Landscape Architecture & Urban Planning
PHD, University of Waterloo, Canada, 1987

Newman, Galen D, Associate Professor
Landscape Architecture & Urban Planning
PHD, Clemson University, 2010
MLA, Auburn University, 2006

Newton, Karah F, Assistant Lecturer
Landscape Architecture & Urban Planning
MPA, New York University, 2014

Noh, Youngre, Visiting Assistant Professor
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2015
MS, Yonsei University, Seoul, Korea, 2006

Peacock, Walter G, Professor
Landscape Architecture & Urban Planning
PHD, University of Georgia, 1986

Qu, Tongbin, Assistant Professor of the Practice
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2010
Department of Landscape Architecture and Urban Planning

Reid, Russell W, Assistant Professor of the Practice
Landscape Architecture & Urban Planning
MARC, Texas A&M University, 2001

Rodiek, Jon, Professor
Landscape Architecture & Urban Planning
PHD, University of Massachusetts Amherst, 1974
MLA, University of Massachusetts, 1968

Rogers, George O, Professor
Landscape Architecture & Urban Planning
PHD, University of Pittsburgh, 1983

Sharif, Mustafa A, Lecturer
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 1992

Teal, Michael A, Assistant Professor of the Practice
Landscape Architecture & Urban Planning
MBA, Texas A&M University, 2015
MLA, University of Stirling, 1990

Varni, James W, Research Professor
Landscape Architecture & Urban Planning
PHD, University of California, Los Angeles, 1976

Van Zandt, Shannon S, Professor
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 1996

Won, Jae W, Assistant Lecturer
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 2016

Wunneburger, Douglas F, Instructional Associate Professor
Landscape Architecture & Urban Planning
PHD, Texas A&M University, 1992

Xiao, Yu, Associate Professor
Landscape Architecture & Urban Planning
MBA, University of Illinois at Urbana-Champaign, 2008

Majors

• Bachelor of Landscape Architecture and Master of Land and Property Development, 6-Year Degree Program (http://catalog.tamu.edu/undergraduate/architecture/landscape-architecture-urban-planning/bla-mlp)
• Bachelor of Landscape Architecture and Master of Urban Planning, 6-Year Degree Program (http://catalog.tamu.edu/undergraduate/architecture/landscape-architecture-urban-planning/bla-mup)
• Bachelor of Landscape Architecture in Landscape Architecture (http://catalog.tamu.edu/undergraduate/architecture/landscape-architecture-urban-planning/bla)
• Bachelor of Science in Urban and Regional Planning (http://catalog.tamu.edu/undergraduate/architecture/landscape-architecture-urban-planning/urban-regional-planning-bs)
• Bachelor of Science in Urban and Regional Planning and Master of Land and Property Development, 5-Year Degree Program (http://catalog.tamu.edu/undergraduate/architecture/landscape-architecture-urban-planning/bs-mlp)
• Bachelor of Science in Urban and Regional Planning and Master of Urban Planning, 5-Year Degree Program (http://catalog.tamu.edu/undergraduate/architecture/landscape-architecture-urban-planning/bs-mup)

Minors

• Urban and Regional Planning Minor (http://catalog.tamu.edu/undergraduate/architecture/landscape-architecture-urban-planning/urban-planning-minor)

Courses

• Landscape Architecture (LAND) (p. 3)
• Urban and Regional Planning (URPN) (p. 5)

Landscape Architecture

LAND 101 Introduction to Landscape Architectural Practice
Credit 1. 1 Lecture Hour.
Explores and evaluates the diversity of landscape architectural practice; defines the traditional practice forms and examines evolving and boundary expanding opportunities for future practice; introduces the departmental curriculum and faculty.

LAND 111 Landscape Architecture Communications I
Credits 3. 2 Lecture Hours. 4 Lab Hours.
Introduction to basic drafting and drawing required for landscape architecture projects, introduction to basic concepts, principles of graphic composition and pencil sketching techniques.

LAND 112 Landscape Architectural Communications II
Credits 3. 2 Lecture Hours. 4 Lab Hours.
Advanced study in traditional and computer-based communication techniques in landscape architecture including studio explorations in concept and analysis graphics, color sketching, perspective drawing and rendering, desktop publishing, image capturing and manipulation, and compilation of graphic presentations; lecture, demonstrations and studio assignments.
Prerequisite: LAND 111 or approval of instructor.

LAND 211 Landscape Design I
Credits 4. 2 Lecture Hours. 7 Lab Hours.
Beginning studio course in land design; forces that produce useable three-dimensional site-space relationships; problems presented to give a basic knowledge, scope and application of landscape architecture design principles. Overnight field trip required.
Prerequisites: LAND 112; junior or senior classification or approval of instructor.

LAND 212 Landscape Design II
Credits 4. 2 Lecture Hours. 7 Lab Hours.
Continuation of LAND 211; basic design principles that combine natural systems (such as landform, water, vegetation, wildlife habitat, soils, climate) and human-built systems (such as roads, building utilities).
Prerequisites: LAND 211 and LAND 231.

LAND 231 Landscape Construction I
Credits 4. 2 Lecture Hours. 4 Lab Hours.
First construction studio course; aspects of site engineering and consideration of earth bound elements in land development; contours, landform, grading design, drainage principles, cut and fill computations, basic hydraulics and hydrology, stormwater management.
Prerequisite: Junior or senior classification or approval of instructor.
LAND 232 Landscape Construction II  
Credits 3. 2 Lecture Hours. 4 Lab Hours.  
Second construction studio course; essential construction materials and systems applied in landscape development; topics include statics and mechanics of simple structures; properties and procedures of wood, masonry and concrete construction; construction sequencing and material costs; development of a construction document package required. Construction observation field trips required.  
Prerequisites: LAND 211 and LAND 231; junior or senior classification.

LAND 240 History of Landscape Architecture  
Credits 3. 3 Lecture Hours.  
Introduction to history of land use, urban design and planning, and site design from prehistory to the present in Europe, Asia, Africa and Australia; contemporary issues in landscape architecture such as sustainability, ecological design, and professional roles, both historically and at present, with comparisons to American examples.  
Prerequisite: Sophomore classification or higher.

LAND 241 History and Development of Landscape Architecture in North America  
Credits 3. 3 Lecture Hours.  
Interaction between people and the land in North America from first settlement to the present; settlement patterns, sustainable land use, urban design and plan, and site design in context of cultural, social, and technological factors; current issues in landscape architecture, landscape urbanism, and land-use planning.

LAND 291 Research  
Credits 1 to 4. 1 to 4 Other Hours.  
Research conducted under the direction of faculty member in landscape architecture. May be repeated 2 times for credit.  
Prerequisites: Freshman or sophomore classification and approval of instructor.

LAND 301 Landscape Architecture Theory  
Credits 3. 3 Lecture Hours.  
Landscape Architecture. Relevant theoretical discourse in landscape architecture, urban planning and urban design; urban theory, social and cultural theory; critical and creative thinking; ecological planning and design; design process and sustainable development; environmental philosophy and environmental aesthetics.  
Prerequisite: Junior classification or approval of instructor.

LAND 311 Landscape Design III  
Credits 5. 2 Lecture Hours. 9 Lab Hours.  
Design process, sustainable landscape design, synthesis and design refinement; problems to stimulate highly creative self-motivated results, design thinking to integrate behavioral settings into natural and/or built landscape systems.  
Prerequisites: LAND 212 and LAND 232; junior or senior classification.

LAND 312 Landscape Design IV  
Credits 5. 2 Lecture Hours. 9 Lab Hours.  
Continuation of LAND 311; land design projects of increased complexity and emphasis on sustainability, with site scale problems used to demonstrate complete design thought. One or more field trips may be required.  
Prerequisite: LAND 311.

LAND 331 Landscape Construction III  
Credits 4. 2 Lecture Hours. 4 Lab Hours.  
Third construction studio course; sustainable water management techniques in landscape development; theory, principles and techniques of low impact development; construction document preparation, working drawings, project layout and design; theory and principles of irrigation and lighting design. Field trips required.  
Prerequisites: LAND 320 and LAND 330; junior or senior classification.

LAND 412 Landscape Design VI  
Credits 5. 2 Lecture Hours. 9 Lab Hours.  
Capstone studio; advanced study and research designed to go beyond the core design experience; introduction of issues, methodologies, tools and techniques developing in professional practice.  
Prerequisite: LAND 312.

LAND 431 Professional Practice  
Credits 3. 3 Lecture Hours.  
Procedures, management and ethical frameworks in which professional landscape architectural practice occurs; topics include forms of practice, employment, proposal preparation, fee and contract structures, project management, roles of the landscape architect, presentations and public participation, legal and ethical responsibilities.  
Prerequisites: Senior classification; approval of instructor.

LAND 484 Summer Internship  
Credits 0. 0 Lecture Hours.  
Practical experience in an office of design allied professionals; 10 week internship with a minimum of 400 hours; continuous employment; departmental pre-approval through the department internship coordinator required. Must be taken on a satisfactory/unsatisfactory basis.  
Prerequisites: Upper level classification and approval of internship coordinator; LAND 321.

LAND 485 Directed Studies  
Credits 1 to 6. 1 to 6 Other Hours.  
Special problems in various phases of landscape architecture assigned to individual students or to groups. Consultation and assigned collateral reading.  
Prerequisite: Approval of department head.

LAND 489 Special Topics in...  
Credits 1 to 4. 1 to 4 Other Hours.  
Selected topics in an identified field of landscape architecture. May be repeated for credit.

LAND 491 Research  
Credits 1 to 4. 1 to 4 Other Hours.  
Research conducted under the direction of faculty member in landscape architecture. May be repeated 2 times for credit.  
Prerequisites: Junior or senior classification and approval of instructor.

LAND 494 Internship  
Credits 6. 6 Lecture Hours.  
An internship (15 week, 600 hours) with a landscape architecture or landscape architecture-related company that exposes the student to landscape architectural professional practice; monthly reports, final internship portfolio and internship supervisor assessment letter required; distance education course with non-resident status.  
Prerequisites: LAND 321 and approval of coordinator.
Urban and Regional Planning (p. 3)

URPN 200 Introduction to Landscape Architectural Practice
Credit 1. 1 Lecture Hour.
Explores and evaluates the diversity of landscape architectural practice; defines the traditional practice forms and examines evolving and boundary expanding opportunities for future practice; introduces the departmental curriculum and faculty.

URPN 201 The Evolving City
Credits 3. 3 Lecture Hours.
Introduction to the history of contemporary urban and regional planning and how the evolving forms of cities and regions pose opportunities and/or challenges for planners; understanding key social, economic, political and technological forces that shape city form and function and its ramifications for urban and regional planning.

URPN 202 Building Better Cities
Credits 3. 3 Lecture Hours.
Determinants of land use patterns; classification of uses; idealized conceptual alternatives; location and size criteria; mapping; comprehensive planning process, relationship to circulation planning.

URPN 210 Urban Analytical Methods I
Credits 3. 3 Lecture Hours.
Study of various analytical techniques used in urban and regional decision making; quantitative approaches to analyze and manipulate data; utilization of statistical packages for data, analysis and communication to enhance urban planning modeling.
Prerequisite: URPN majors only or approval of instructor.

URPN 220 Digital Communication I
Credits 3. 3 Lecture Hours.
Applications of computer graphics, rendering, and visualization software in urban design, landscape architecture, and environmental analysis; introduction to basic concepts and principles of graphic composition; rendering, visualization, and linkages to landscape-referenced data.
Prerequisite: Landscape Architecture and Urban Planning majors only or approval of instructor.

URPN 291 Research
Credits 1 to 4. 1 to 4 Other Hours.
Research conducted under the direction of faculty member in landscape architecture and urban planning. May be taken 2 times for credit.
Prerequisites: Freshman or sophomore classification.

URPN 302 Planning Law
Credits 3. 3 Lecture Hours.
Familiarization with the fundamental principles of planning law and legislation; legal foundation for the urban planning process; alternative methods of plan implementation; emphasis on legal issues as they impact land use planning and development at the municipal level of government; participation in mock advocacy trials and public hearings.
Prerequisites: URPN 301; URPN majors only.

URPN 310 Urban Analytical Methods II
Credits 3. 3 Lecture Hours.
Focuses on research conducted by planners, sociologists, anthropologists, political scientists and a variety of applied social scientists; examines variety of procedures employed when conducting research in urban areas; furthers understanding and knowledge of statistical methods employed in social research and elements of geographical analysis.
Prerequisite: Upper division College of Architecture; URPN 210 or approval of instructor, URPN majors only.

URPN 320 Digital Communication II
Credits 3. 3 Lecture Hours.
Advanced applications of computer graphics, rendering, and visualization software in urban design, landscape architecture, and environmental analysis; introduction to basic concepts and principles of graphic composition, rendering, visualization, and linkages to landscape-referenced data.
Prerequisites: URPN 220; department majors only.

URPN 325 Introduction to GIS in Urban and Regional Planning
Credits 3. 2 Lecture Hours. 3 Lab Hours.
Provides an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, environmental studies, transportation and hazard management; based on learning through class projects.
Prerequisite: Upper division College of Architecture; URPN majors only or approval of instructor.

URPN 326 Advanced GIS in Urban and Regional Planning
Credits 3. 3 Lecture Hours.
Advanced instruction in applications of spatial tools for urban planning, landscape architecture, land development, hazard management, and related problems; GIS applications through review of literature and practice; data quality, uncertainty, the integration of GPS, remote sensing and information technology within the context of urban and regional planning.
Prerequisite: URPN 325 or approval of instructor, department majors only.

URPN 330 Land Development I
Credits 3. 3 Lecture Hours.
Interface between the physical and financial dimensions in design and development to achieve building and project economies; creating a physical product and a financial venture that are responsive to social and environmental concerns and to market economy and finance.
Prerequisite: Department majors only or approval of instructor.

URPN 331 Public and Private Infrastructure Funding
Credits 3. 3 Lecture Hours.
Provides an understanding of GIS fundamentals; basic concepts, principles and functions; essential skills for applying GIS in various fields such as urban planning, landscape architecture, land development, hazard management, and related problems; GIS applications through review of literature and practice; data quality, uncertainty, the integration of GPS, remote sensing and information technology within the context of urban and regional planning.
Prerequisite: URPN majors only or approval of instructor.

URPN 340 Housing and Community
Credits 3. 3 Lecture Hours.
Housing, its development, planning, marketing, designing, financing and production; social and design history and contemporary issues of American housing development, urban renewal, neighborhood structure and community facilities.
Prerequisite: Department majors and minors only or approval of instructor.

URPN 360 Issues in Environmental Quality
Credits 3. 3 Lecture Hours.
Issues in environmental quality; focus on stormwater and ecosystem qualities influenced by land development; design and planning principles and techniques (e.g. low impact development) for sustainable stormwater management in urban and suburban watersheds.
Prerequisite: Junior or senior classification or approval of instructor.
URPN 361 Urban Issues
Credits 3.3 Lecture Hours.
Issues pertaining to the evolution and development of cities and urban regions; examines the socio-economic, cultural and physical development of urban areas; addresses contemporary problems such as racial tension, unemployment and poverty, housing, pollution and environmental sustainability, traffic and congestion, land use, crime, public health, and other quality of life issues.
Prerequisite: Junior or senior classification or approval of instructor.

URPN 369 Transportation and Urban Form
Credits 3.3 Lecture Hours.
Examination of the interrelated nature of transportation, land use and urban design; familiarization with the role of transportation in contemporary society; understanding the interrelationships between transportation and urban form at both the regional and community levels.
Prerequisite: Junior or senior classification or approval of instructor.

URPN 370 Health Systems Planning
Credits 3.3 Lecture Hours.
Introduction to planning in the health care system at both institutional and community levels.
Prerequisite: Junior or senior classification or approval of instructor.

URPN 371 Environmental Health Planning and Policy
Credits 3.3 Lecture Hours.
Philosophical and historical relationships of human-environment-disease; environmental health domains and associated planning and policy organizations and initiative for monitoring, intervention, and prevention; interdisciplinary approaches for risk analysis of environmental health.
Prerequisite: Junior or senior classification or approval of instructor.

URPN 401 Policy Implementation
Credits 3.3 Lecture Hours.
Techniques of implementing major urban development programs and plans; capital improvements programming and budgeting; overview of regulatory measures including zoning and subdivision regulations; public involvement process; and fiscal planning.
Prerequisite: URPN majors only.

URPN 440 Urban and Regional Economic Development
Credits 3.3 Lecture Hours.
Examines economic development processes in urban and regional planning; issues explored include theoretical, the economic development planning process, ethics, location factors, intergovernmental relations, budgeting, and private sector revenue generation.
Prerequisite: URPN majors only or approval of instructor.

URPN 441 Neighborhood Revitalization
Credits 3.3 Lecture Hours.
Examination of the causes of decline of central cities, with the goal of developing a realistic view of who is affected, and why, so that a realistic foundation can be laid for successful redevelopment projects; topics and case studies on downtown decline and redevelopment, older city neighborhood problems and retrofitting.
Prerequisite: URPN majors only or approval of instructor.

URPN 450 Emergency Management Principles and Practices
Credits 3.3 Lecture Hours.
Introduction to the fundamental principles of emergency management.
Prerequisite: Upper division College of Architecture or approval of instructor.

URPN 451 Hazard and Vulnerability Analysis for Planners
Credits 3.3 Lecture Hours.
Tools and techniques used by city planners and emergency managers to determine their jurisdictions' hazard risk and social vulnerability to disaster impacts.
Prerequisite: Junior or senior classification, URPN 450 or approval of instructor.

URPN 460 Sustainable Communities
Credits 3.3 Lecture Hours.
Focuses on sustainable community with applications in public policy/ design including societal organization, disciplinary bound design and policy, and empowered approaches to design, social ecology and public policy; reading and review of relevant literature on sustainability, complemented with exercises to illustrate underlying principles.
Prerequisite: Department majors and minors only or approval of instructor.

URPN 469 Urban Infrastructure
Credits 3.3 Lecture Hours.
Foundation of planning and managing infrastructure and public services; utilization of life-cycle method of infrastructure planning and delivery, research theory and tools to perform basic infrastructure planning.
Prerequisite: URPN majors only or approval of instructor.

URPN 470 Health Systems Planning and Policy
Credits 3.3 Lecture Hours.
Analyzes health needs at community, regional and national levels; organization and supply of health services at community, regional and national levels; medical technology and its impact on health needs and system organization; medical care financing and its effects on health need and system organization; health planning for natural and human-made disasters; and service-learning for applying planning theories and methods.
Prerequisite: Junior or senior classification or approval of instructor.

URPN 471 Planning Healthier Communities
Credits 3.3 Lecture Hours.
Planning for the creation of healthier cities/communities; emphasis on the impact of global paradigmatic shifts regarding community health, stakeholder participation, coalition building, leadership, visioning the planning process, and the need for more systemic and process orientation in community building.
Prerequisite: Junior or senior classification or approval of instructor.

URPN 481 Seminar
Credits 3.3 Lecture Hours.
Seminar discussion of current topics in urban planning.
Prerequisite: Senior classification.

URPN 483 Studio in Urban and Regional Science
Credits 1 to 6. 1 to 6 Lecture Hours.
Studio introduces the confluence of ecological, environmental, economic, social, cultural, and political forces impacting the planning, design, and development of complex urban environments; site planning, design process, sustainability.
Prerequisite: URPN majors only or approval of instructor.

URPN 484 Internship
Credits 3.3 Other Hours.
Practical experience in an office of design allied professionals; 12 week internship with a minimum of 480 hours; continuous employment; departmental pre-approval through the department internship coordinator required. May not be repeated for credit.
Prerequisites: URPN majors only or approval of internship coordinator.
URPN 485 Directed Studies
Credits 1 to 5. 1 to 5 Other Hours.
Individual instruction in selected aspects of urban planning not adequately covered in other courses. May be taken 3 times for credit.
Prerequisite: Upper level classification.

URPN 489 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.
Selected topics in an identified field of urban studies. May be repeated for credit.

URPN 491 Research
Credits 1 to 4. 1 to 4 Other Hours.
Research conducted under the direction of faculty member in landscape architecture and urban planning. May be taken 2 times for credit.
Prerequisites: Junior or senior classification.

URPN 493 Urban and Regional Studies Capstone Course
Credits 5. 5 Lecture Hours.
Syntheses and application of skills and knowledge gained through coursework applied to the development of creative solutions to real-world projects.
Prerequisites: URPN 310, URPN 331, URPN 410, URPN 469; LAND 494; senior classification; URPN majors only.

URPN 494 Internship
Credits 6. 6 Other Hours.
Practical experience in public, private, non-profit and for profit organizations of design allied professionals; 18 week internship with a minimum of 720 hours; continuous employment; departmental pre-approval through the department internship coordinator required. May not be repeated for credit.
Prerequisites: Upper level classification and approval of internship coordinator.