

Landscape Architecture

Department Overview

The UT Arlington Master of Landscape Architecture program advances design and planning solutions for environmental resiliency, urban placemaking, quality of life, and well-being. Through interdisciplinary teaching, research, and service activities, the program promotes leading-edge design and planning by capitalizing upon its unique position within the urban lab environment that Dallas/Fort Worth area offers, providing students with skills that are transferable to cities around the globe.

Students and faculty within the Master of Landscape Architecture program seek to fulfill its vision on various levels, beginning with the program and radiating outward.

The Landscape Architecture Program:

- provides a creative and engaging classroom, as well as an experiential learning environment that promotes critical and creative thinking about advanced solutions for current and future urban landscapes; a commitment to continual growth of the profession is manifested in lifetime learning opportunities including continuing education, certificates, and executive programs for working professionals
- encourages collaborative teaching and research within the College of Architecture, Planning and Public Affairs
- encourages collaborative teaching, research and outreach programs across the University with such programs as Engineering, Environmental Sciences, Sociology, Real Estate Development, and Business Administration
- acts as a bridge between academia and industry by providing a hub for service learning opportunities that benefit a wide range of community partners; we do this by capitalizing upon the broad and diverse expertise of faculty research, and by integrating creative and thoughtful design that addresses the culture, nature, and people within a rapidly growing metropolitan environment to help create viable, sustainable, and resilient urban communities.

OUR VALUES

- **Excellence in our education programs:** We value excellence and seek the highest standards in teaching by engaging students to develop creative and critical thinking, an appreciation of lifetime learning, and the professional skills necessary to address issues of landscape architecture, urban design, sustainability, and quality of life.
- **Diversity:** We value and promote diversity in our students, faculty, design and planning practices, and see diversity as one of the strengths of our program.
- **Research:** We value and promote original research and scholarly activities that apply the diverse expertise of faculty students to addressing complex urban issues.
- **Collaboration:** We value collaboration within our students, our MLA faculty, CAPPA, and across the University, as well as with our current and developing business, government and nonprofit community partners.
- **Service to our community:** We value service as a key element of structured experiential learning that results in creative solutions to urban landscape, urban design, sustainability, and city building challenges, with the goal of fostering quality of life and well-being.

ACCREDITATION

The Landscape Architecture Program is fully accredited by the Landscape Architecture Accreditation Board. Graduates from the Landscape Architecture Program are qualified to sit for the Landscape Architecture Registration Exam which, when successfully passed, qualifies individuals to practice as landscape architects in the State of Texas.

Graduate Programs (<https://catalog.uta.edu/archives/2025-2026/cappa/landscape/graduate/>)

Undergraduate Program (<https://catalog.uta.edu/archives/2025-2026/cappa/landscape/undergraduate/>)

COURSES

LARC 4191. CONFERENCE COURSE. 1 Hour.

Independent study guided by an instructor on a regular basis. May be repeated for credit. Prerequisite: Departmental permission.

LARC 4300. INTRODUCTION TO LANDSCAPE ARCHITECTURE. 3 Hours.

An orientation to this environmental-design profession. Landscape architecture applies a blending of art with knowledge of natural processes and historical, cultural, and social dynamics to design richly supportive and beautiful outdoor places. Open to all students.

LARC 4301. SITE PLANNING AND DEVELOPMENT PROCESSES. 3 Hours.

Presents the processes and practices of site planning and development, including site inventory, analysis, and assessment of potential building sites. Students examine the natural, cultural, and social systems that affect design decisions, as well as the language and literature of landscape architecture. Prerequisite: "C" or better in UDES 2441, ARCH 2551, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4312. HISTORY AND THEORY OF LANDSCAPE ARCHITECTURE I. 3 Hours.

Traces landscape planning and design from pre-history through Egyptian, Greek, Roman, Islamic and Medieval gardens to Italian, French, and English landscape approaches, culminating in the mid-19th century. Relates landscape design to societal, cultural, technological and belief systems of each period. Culminates in the contemporary history of the profession from Andrew Jackson Downing to the present day. The growth and development of the profession, professional education, the environmental movement, large scale regional land planning and significant landscape architectural projects of the past century and a half. Course also offered as ARCH 4353, credit will only be granted one. Prerequisite: UDES 2303 and LARC 4300 or ARCH 2303 and ARCH 2304. Restricted to Sustainable Urban Design, Architecture, and Interior Design majors.

LARC 4313. HISTORY AND THEORY OF LANDSCAPE ARCHITECTURE II. 3 Hours.

The contemporary history of the profession from Andrew Jackson Downing to present day. The growth and development of the American Society of Landscape Architects (ASLA), professional education, the environmental movement, large scale regional planning, and significant landscape architectural projects of the past century. Prerequisite: "C" or better in ARCH 4353. Department consent.

LARC 4320. COMMUNICATIONS FOR LANDSCAPE ARCHITECTS. 3 Hours.

Primary class for the development of graphic and communication skills in landscape architecture. Provides a method for transferring conceptual ideas into legible graphic presentations. Prerequisite: "C" or better in UDES 2441, ARCH 2551, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4324. ENVIRONMENTAL ART AND DATA VISUALIZATION. 3 Hours.

Siting and creating works of art; analysis of the creative processes of the two different-yet-related disciplines; case studies of built works. Communication of ideas through environmental media. Prerequisite: C or better in UDES 3551, ARCH 2551, or approved equivalent. Restricted to Sustainable Urban Design major. Department approval is required for Architecture and Interior Design majors. Students must have a minimum cumulative GPA of 2.8 and a minimum major course GPA of 2.8.

LARC 4325. URBAN SKETCHING. 3 Hours.

This course employs freehand, on-location sketching as a means for exploring and understanding the rich visual language of the urban environment. Lectures will introduce timeless urban design principles and field sketching techniques, which will be further developed through on-location sketching in the city. The course would be of interest to students of art, architecture, landscape architecture, planning, art and related fields. Some background in sketching through art or design coursework is recommended. Prerequisite: "C" or better in UDES 2441, ARCH 1342, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4326. DESIGN AND HUMAN BEHAVIOR. 3 Hours.

This course is an introduction to a range of viewpoints, concepts and characteristics of human behavior which should be taken into consideration when designing the urban environment. Cultural, social and psychological factors will be considered. Various theories and methods of environmental assessment and design will be studied that are based on an understanding of mutually supportive relationships between human beings and their physical environment. Field study will be employed to exercise theories and techniques explored. Prerequisite: "C" or better in UDES 2441, ARCH 2551, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4327. REGIONALISM, CREATIVITY, AND DESIGN. 3 Hours.

This class will cover various readings and discuss inspiring regionalist essays by architects, landscape architects, philosophers, and others in order to shape a set of beliefs (an ideology) that can productively inform the student's trajectory as a creative designer. Students will learn how regionalism makes the life of a designer more interesting and fulfilling as new regional influences in diverse areas are absorbed and become continuing fodder for personal growth and creativity through a long career. Prerequisite: "C" or better in UDES 2441, ARCH 2551, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4330. PLANT IDENTIFICATION AND ECOLOGY. 3 Hours.

Examines the design characteristics and horticultural requirements of a broad palette of plants adapted to the North Texas region. Field trips are required to learn the plants at both ornamental gardens and local ecological communities. Prerequisite: C or better in UDES 4551, ARCH 3554, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4341. LANDSCAPE TECHNOLOGY I. 3 Hours.

Surveying, site grading, storm water management, vertical and horizontal curves and an overview of the construction documentation process employed by landscape architects. Prerequisite: C or better in UDES 4551, ARCH 3554, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4344. PARK AND RECREATION DESIGN AND PLANNING. 3 Hours.

History, data collection, program formulation, and design principles for public and private park and recreation systems and sites. Includes management objectives, operations and maintenance, and public input as planning components. Prerequisite: C or better in UDES 4551, ARCH 3554, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4350. LANDSCAPE ARCHITECTURE COMPUTER APPLICATIONS. 3 Hours.

Examines various computer applications currently used in office practice. Computer applications used for office management, site analysis, design development, construction documentation, and cost estimating. Introduction to computer aided design applications and the underlying theories of application. Prerequisite: "C" or better in UDES 2441, ARCH 2551, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4351. ADVANCED COMPUTER AIDED DESIGN. 3 Hours.

Focus is on a methodology for designing and illustrating with computer graphics that is very compatible with the design and production workflow of most landscape architecture offices. All work is done in an AutoCAD environment using AutoCAD for modeling and Lumion for rendering still images, interactive panoramas, and both viewpoint and key-frame animations. Photoshop is used for the creation of texture maps, image manipulation and photo-montage. Emphasis is on working intuitively and creatively. Prerequisite: "C" or better in LARC 4350, ARCH 3343, INTD 2343, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4382. URBAN DESIGN SEMINAR. 3 Hours.

The Seminar establishes a basic critical understanding, and a critique of urban design by reviewing its past, present and the future as an academic field and an area of practice. The seminar introduces urban design as a transdisciplinary specialization and professional endeavor that encompasses landscape architecture, architecture, city planning, and real estate to shape and influence the built environment primarily within urban context. Students actively present and lead informed discussions on topics such as urban form, urban landscapes, land-use patterns, population density, circulation, legibility, public art, environmental behavior and urban/rural interchange. Field trips are required. Prerequisite: C or better in UDES 4551, ARCH 3554, or approved equivalent. Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. Department consent.

LARC 4391. CONFERENCE COURSE IN LANDSCAPE ARCHITECTURE. 3 Hours.

Independent study guided by an instructor on a regular basis. Prerequisite: Students must have a minimum cumulative GPA of 2.8 and a minimum major course(s) GPA of 2.8. May be repeated for credit, may not exceed six credits. Permission of the instructor and the Landscape Architecture Program Director.

LARC 4395. SELECTED TOPICS IN LANDSCAPE ARCHITECTURE. 3 Hours.

Courses to explore and present selected topics in landscape architecture and design. May be repeated for credit as topics change. Prerequisite: Department consent.

LARC 4695. CONFERENCE COURSE IN LANDSCAPE ARCHITECTURE. 6 Hours.

Studio and lecture courses to explore and present selected topics in landscape architecture and design. Not repeatable for credit. Prerequisite: Permission of the Landscape Architecture Program Director.

LARC 5191. CONFERENCE COURSE IN LANDSCAPE ARCHITECTURE. 1 Hour.

Special subjects and issues in landscape architecture that may be studied independently under faculty supervision. May be repeated for credit.

LARC 5294. MASTERS COMPREHENSIVE EXAMINATION. 2 Hours.

Must be taken concurrently with Thesis. Directed study, consultation, and comprehensive examination of coursework, leading to and including the thesis. Oral presentation required. Required of all Master of Landscape Architecture students in the semester in which they plan to graduate. Prerequisite: LARC 5397.

LARC 5300. INTRODUCTION TO LANDSCAPE ARCHITECTURE. 3 Hours.

An orientation to this environmental-design profession. Landscape architecture applies a blending of art with knowledge of natural processes and historical, cultural, and social dynamics to design richly supportive and beautiful outdoor places. Open to all students.

LARC 5301. SITE PLANNING AND DEVELOPMENT PROCESSES. 3 Hours.

Presents the processes and practices of site planning and development, including site inventory, analysis, and assessment of potential building sites. Students examine the natural, cultural, and social systems that affect design decisions, as well as the language and literature of landscape architecture.

LARC 5302. LAND DEVELOPMENT PLANNING. 3 Hours.

The process of land development planning for landscape architects. Detailed expansion of LARC 5301. Uses case studies in land development planning to instruct students in the environmental, economic, legal, and visual issues associated with the land planning process.

LARC 5312. HISTORY AND THEORY OF LANDSCAPE ARCHITECTURE. 3 Hours.

Traces landscape planning and design from pre-history through Egyptian, Greek, Roman, Islamic and Medieval gardens to Italian, French, and English landscape approaches, culminating in the mid-19th century. Relates landscape design to societal, cultural, technological and belief systems of each period. Culminates in the contemporary history of the profession from Andrew Jackson Downing to the present day. The growth and development of the profession, professional education, the environmental movement, large scale regional land planning and significant landscape architectural projects of the past century and a half.

LARC 5313. HISTORY AND THEORY OF LANDSCAPE ARCHITECTURE II. 3 Hours.

The contemporary history of the profession from Andrew Jackson Downing to present day. The growth and development of the American Society of Landscape Architects (ASLA), professional education, the environmental movement, large scale regional planning, and significant landscape architectural projects of the past century. Prerequisite: "C" or better in LARC 5312 or ARCH 4353.

LARC 5320. COMMUNICATIONS FOR LANDSCAPE ARCHITECTS. 3 Hours.

Primary class for the development of graphic and communication skills in landscape architecture. Provides a method for transferring conceptual ideas into legible graphic presentations. Should be taken concurrently with LARC 5661 Design Studio I. Prerequisite: Credit or concurrent enrollment in LARC 5661.

LARC 5321. ADVANCED COMMUNICATIONS. 3 Hours.

Focuses on the symbolic and representational computer graphics as well as communication and presentation techniques typically used in landscape architecture profession. Building on the graphic thinking, production, and communications skills covered in LARC 5320 and further expanding those basics to digital technologies and media. It also introduces students to fundamental concepts and principles of design and graphic composition in the digital environment. Prerequisite: LARC 5320.

LARC 5323. STUDIO TEACHING. 3 Hours.**LARC 5324. LANDSCAPE ARCHITECTURE AND ENVIRONMENTAL ART SEMINAR. 3 Hours.**

Siting and creating works of art; analysis of the creative processes of the two different-yet-related disciplines; case studies of built works. Communication of ideas through environmental media.

LARC 5325. URBAN SKETCHING. 3 Hours.

This course employs freehand, on-location sketching as a means for exploring and understanding the rich visual language of the urban environment. Lectures will introduce timeless urban design principles and field sketching techniques, which will be further developed through on-location sketching in the city. The course would be of interest to students of art, architecture, landscape architecture, planning, art and related fields. Some background in sketching through art or design coursework is recommended.

LARC 5326. DESIGN AND HUMAN BEHAVIOR. 3 Hours.

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LARC 5327. REGIONALISM, CREATIVITY, AND DESIGN. 3 Hours.

This class will cover various readings and discuss inspiring regionalist essays by architects, landscape architects, philosophers, and others in order to shape a set of beliefs (an ideology) that can productively inform the student's trajectory as a creative designer. Students will learn how regionalism makes the life of a designer more interesting and fulfilling as new regional influences in diverse areas are absorbed and become continuing fodder for personal growth and creativity through a long career.

LARC 5330. PLANT IDENTIFICATION AND ECOLOGY. 3 Hours.

Examines the design characteristics and horticultural requirements of a broad palette of plants adapted to the North Texas region. Field trips are required to learn the plants at both ornamental gardens and local ecological communities.

LARC 5331. PLANTING DESIGN. 3 Hours.

Design applications of plant material. Students apply the design problem-solving approach to the detailed aspects of planting design and complete a progressively-more-difficult series of problems to practice techniques and methods of plant manipulation that encompass both the aesthetic, programmatic, environmental, and ecological objectives of planting design. Prerequisites: LARC 5330; LARC 5661; LARC 5662.

LARC 5340. PROFESSIONAL PRACTICE. 3 Hours.

Ethical, legal, and administrative aspects of the public, private, and academic spectrums of practice in landscape architecture.

LARC 5341. LANDSCAPE TECHNOLOGY I. 3 Hours.

Surveying, site grading, storm water management, vertical and horizontal curves and an overview of the construction documentation process employed by landscape architects.

LARC 5342. LANDSCAPE TECHNOLOGY II. 3 Hours.

Examines hardscape materials and methods typical to the practice of landscape architecture, through readings, examinations, design detail exercises, and the creation of a complete set of construction documents. Construction site tours are required with area industry professionals. Prerequisites: LARC 5341.

LARC 5344. PARK AND RECREATION DESIGN AND PLANNING. 3 Hours.

History, data collection, program formulation, and design principles for public and private park and recreation systems and sites. Includes management objectives, operations and maintenance, and public input as planning components.

LARC 5350. LANDSCAPE ARCHITECTURE COMPUTER APPLICATIONS. 3 Hours.

Examines various computer applications currently used in office practice. Computer applications used for office management, site analysis, design development, construction documentation, and cost estimating. Introduction to computer aided design applications and the underlying theories of application. Prerequisite: LARC 5320.

LARC 5351. ADVANCED COMPUTER AIDED DESIGN. 3 Hours.

Focus is on a methodology for designing and illustrating with computer graphics that is very compatible with the design and production workflow of most landscape architecture offices. All work is done in an AutoCAD environment using AutoCAD for modeling and Lumion for rendering still images, interactive panoramas, and both viewpoint and key-frame animations. Photoshop is used for the creation of texture maps, image manipulation and photo-montage. Emphasis is on working intuitively and creatively. Prerequisite: LARC 5350.

LARC 5368. DESIGN PRACTICUM. 3 Hours.

An internship program which includes approved work done in a landscape architect's office or one of the related design fields. The purpose of the practicum is to provide students with practical design experience. Students may enroll in LARC 5368 for half-time employment or LARC 5668 for full time employment.

LARC 5380. RESEARCH METHODS IN LANDSCAPE ARCHITECTURE. 3 Hours.

Theories of practical research and methods of applying them as they relate to landscape architecture. Includes research program development, data collection and analysis, thesis proposal writing, and research tools and techniques. Emphasis is on qualitative methods. Prerequisites: LARC 5661, LARC 5662.

LARC 5382. URBAN DESIGN SEMINAR. 3 Hours.

The Seminar establishes a basic critical understanding, and a critique of urban design by reviewing its past, present and the future as an academic field and an area of practice. The seminar introduces urban design as a transdisciplinary specialization and professional endeavor that encompasses landscape architecture, architecture, city planning, and real estate to shape and influence the built environment primarily within urban context. Students actively present and lead informed discussions on topics such as urban form, urban landscapes, land-use patterns, population density, circulation, legibility, public art, environmental behavior and urban/rural interchange. Field trips are required.

LARC 5391. CONFERENCE COURSE IN LANDSCAPE ARCHITECTURE. 3 Hours.

Special subjects and issues in landscape architecture that may be studied independently under faculty supervision. May be repeated for credit.

LARC 5395. SELECTED TOPICS IN LANDSCAPE ARCHITECTURE. 3 Hours.

Selected studio or lecture course offerings in specific areas of expertise or interest. Course allows the program the flexibility to address the ever-changing needs of students and the profession by offering courses beyond the scope of the core curriculum. May be repeated for credit.

LARC 5397. THESIS PREP. 3 Hours.

Preparation for landscape architecture thesis (design or written) on design, technology, history or professional principles. Students work closely with a landscape architecture faculty advisor and thesis committee to complete the proposal for a written or design thesis and begin thesis work. Prerequisite: LARC 5380.

LARC 5398. THESIS. 3 Hours.

Independent research and presentation of findings under the direction of a supervising committee. The findings of the thesis should extend the boundaries of the professional discipline by either presenting new and unique ideas or information, or by interpreting existing knowledge from a different perspective. Prerequisite: LARC 5397.

LARC 5623. STUDIO TEACHING PRACTICUM. 6 Hours.

Students spend one semester as a teaching assistant in the studio sequence under the supervision of the assigned faculty member. They will observe the methods employed in the studio and prepare a comprehensive evaluation of the studio in conjunction with the instructor. The students will oversee one short studio project and evaluate its success or failure based on the criteria learned in LARC 5323 and the goals and objectives of the test project. Prerequisite: LARC 5323.

LARC 5660. ENRICHMENT DESIGN STUDIO. 6 Hours.

Review of the principles and processes of design presented in Design Studios I, II, and III. Provides an opportunity for students with weak design and graphic skills to improve those skills to meet requirements for Design Studio IV. Course can use design competitions as projects, for advanced students who have completed the studio sequence. May be repeated for credit as specific topics vary. Prerequisite: LARC 5661 and LARC 5662.

LARC 5661. DESIGN STUDIO I. 6 Hours.

A design course for students with no background in landscape architecture or design. Outlines the site planning and site design decision-making process. Focuses on providing students with the verbal, intellectual, and graphic tools necessary to successfully tackle a design problem and bring it to a schematic level of completion. It is highly recommended that this course be taken concurrently with LARC 5320.

LARC 5662. DESIGN STUDIO II. 6 Hours.

A continuation of LARC 5661. Basic design principles and their application to three-dimensional spaces. Examines how humans occupy exterior space and combines this information with the principles of design to create garden scale models. Models are used as a medium for design expression. Landscape character, design simulation, landscape media, landscape context, and human spatial experience are included.

LARC 5663. DESIGN STUDIO III: SITE PLANNING. 6 Hours.

Features the process of solving complicated site planning and site design problems. Each phase of the site planning process is examined in detail by undertaking one or more studio problems that involve resolution of issues related to existing site conditions, program development, conceptual design, design development, and design detailing.

LARC 5664. DESIGN STUDIO IV: ENVIRONMENTAL PLANNING. 6 Hours.

Studio IV is designed to provide the fundamental concepts and mechanisms underlying natural processes, and environmental planning and design. It addresses the influence of both natural and human factors on landscape planning and landscape architectural design within the context of sustainability. The course expands the regional planning and design to the environment as a large scale ecological unit, independent of political boundaries, through the use of Geographic Information System (GIS) and Geodesign framework. Prerequisite: LARC 5341, LARC 5661, LARC 5662, and LARC 5663.

LARC 5665. DESIGN STUDIO V: THE URBAN LANDSCAPE. 6 Hours.

The studio uses both real and hypothetical projects as well as competitions as design problems which require in depth understanding of behavioral, social, environmental, and economic conditions in relation to landscape architecture and urban design. Basic design and planning principles acquired in earlier studios are reiterated, and solutions to new problems on complex urban projects are introduced that benefit from interactions with architects, planners, urban designers, and developers. Prerequisite: LARC 5341, LARC 5342, LARC 5661, LARC 5662, LARC 5663, and LARC 5664.

LARC 5668. DESIGN PRACTICUM. 6 Hours.

An internship program which includes approved work done in a landscape architect's office or one of the related design fields. The purpose of the practicum is to provide students with practical design experience. Students may enroll in LARC 5368 for half-time employment or LARC 5668 for full time employment.

LARC 5691. CONFERENCE COURSE IN LANDSCAPE ARCHITECTURE. 6 Hours.

Special subjects and issues in landscape architecture that may be studied independently under faculty supervision. May be repeated for credit.

LARC 5693. MASTERS DESIGN THESIS. 6 Hours.

Independent research and design/planning investigations, under the direction of a supervising committee, that demonstrate rigorous original thinking. Topics can explore material in a new light or engage research and design practices in ways that strengthen and define the final masters design thesis in relationship to the field. Prerequisite: LARC 5397.

LARC 5698. THESIS. 6 Hours.

Independent research and presentation of findings under the direction of a supervising committee. The findings of the thesis should extend the boundaries of the professional discipline by either presenting new and unique ideas or information, or by interpreting existing knowledge from a different perspective. Prerequisite: LARC 5397.

LARC 5998. THESIS. 9 Hours.

Independent research and presentation of findings under the direction of a supervising committee. The findings of the thesis should extend the boundaries of the professional discipline by either presenting new and unique ideas or information, or by interpreting existing knowledge from a different perspective. Prerequisite: LARC 5397.

COURSES**UDES 1301. INTRODUCTION TO PRINCIPLES OF SUSTAINABLE URBAN DESIGN. 3 Hours.**

This course is an introduction to sustainable urban design and its principles through the lenses of the college's four disciplines: landscape architecture, architecture, planning and public affairs. How these disciplines interface with environmental, economic, socio-cultural and design sustainability is the focus of the course, culminating with an exploration of urban ecology.

UDES 1304. DIGITAL METHODS IN SUSTAINABLE URBAN DESIGN. 3 Hours.

This course introduces students to the use of digital tools with a focus on their applications in sustainable urban design. The course will cover a wide spectrum of digital art methodologies: image creation and manipulation; simple animation and sound design; static and moving images; digital fabrication outputs; utilizing both pixel and vector-based applications. Prerequisite: C or better in UDES 1301 and UDES 1341. Restricted to Sustainable Urban Design_INT and Sustainable Urban Design_UNIV students.

UDES 1341. DESIGN COMMUNICATIONS. 3 Hours.

Design Communications is an introduction course to analog and digital representation with emphasis on notational techniques of freehand drawing, proportioning strategies, and analysis. Students will also be exposed to physical and digital model-making, craftsmanship, file organization, orthographic and axonometric delineation, line weights, and digital documentation. Prerequisite: Restricted to SUDBSINT and SUDBS_UNIV majors.

UDES 2441. URBAN DIAGRAMMING AND COMMUNICATION I. 4 Hours.

This course establishes a framework for understanding how design is used to create sustainable urban communities. An interdisciplinary course, its focus is upon heightening student awareness of the built environment by investigative sketching and measuring, as well as by digital means. This process of documenting encompasses the human uses of objects and systems that comprise an urban community: buildings, public spaces, landscape, transportation systems, waterways, and other infrastructure. Issues of social and economic equity are introduced, as well as the roles that human interaction and participation play in successful design strategies. Prerequisite: "C" or better in UDES 1301, credit or concurrent enrollment in UDES 2303. Restricted to Sustainable Urban Design-intended and SUDBS_UNIV students.

UDES 2442. URBAN DIAGRAMMING AND COMMUNICATION II. 4 Hours.

This course continues developing students' abilities to visually document urban environments in relation to urban ecologies, while beginning to investigate how designs are created to address the range of scales and ecological impact in a city, from the individual site to a neighborhood. This course focuses upon the impact of infrastructure upon a city's human and ecological systems, encompassing the plant and animal species that are part of urban environments. Prerequisite: C or better in UDES 1301, UDES 2303, and UDES 2441. Restricted to Sustainable Urban Design-intended students.

UDES 2551. URBAN DESIGN STUDIO I: URBAN RESILIENCY. 5 Hours.

This studio focuses upon the planning and design for disaster recovery and the impact upon infrastructure caused by natural events such as earthquakes, flooding and tornadoes. The studio explores the latest and most reliable recovery strategies for rebuilding and repairing a city's human and ecological systems. Students document streets, waterways, transportation and landscape, examining issues of congestion, pollution, storm water management, and transportation access. Group design projects are based on both the scale of neighborhoods and regions. Prerequisite: C or better in UDES 2442. Restricted to Sustainable Urban Design majors. Students must have a minimum cumulative GPA of 2.8 and a minimum major course GPA of 2.8.

UDES 3303. HISTORY OF URBAN DESIGN, FORM, AND INFRASTRUCTURE. 3 Hours.

This course examines the history of urban design, form and infrastructure in a variety of cities, providing students with an understanding of how decisions about design, form and infrastructure impact the lives of inhabitants. Prerequisite: "C" or better in UDES 3552 and LARC 4324. Restricted to Sustainable Urban Design majors.

UDES 3552. URBAN DESIGN STUDIO II: MOBILITY. 5 Hours.

This studio examines the major shifts in the organization and spatial allocation of cities that are transforming urban mobility infrastructures, from light rail to pedestrian zones to cyclist lanes. The interface of transportation, public open spaces, buildings and landscape architecture is explored as well as issues of diversity, equity, and inclusion. A series of group design projects at the neighborhood scale continues the refinement of students' graphic and written skills. Prerequisite: C or better in UDES 1301, UDES 3551. Restricted to Sustainable Urban Design majors. Students must have a minimum cumulative GPA of 2.8 and a minimum major course GPA of 2.8.

UDES 4304. URBAN SUSTAINABILITY CAPSTONE PREP. 3 Hours.

This course includes preparation for the Urban Sustainable Design Capstone Project which can encompass design thinking, technology, history, or professional principles of Sustainable Urban Design. The course instructor will guide students in selecting a faculty advisor and committee and prepare students to complete a proposal in preparation for the Capstone Project undertaken in the final semester of the program. Prerequisite: C or better in UDES 4551. Restricted to Sustainable Urban Design majors. Students must have a minimum cumulative GPA of 2.8 and a minimum major course GPA of 2.8.

UDES 4391. CONFERENCE COURSE. 3 Hours.

Independent study guided by an instructor on a regular basis. May be repeated for credit. Prerequisite: Permission of the department.

UDES 4395. TOPICS IN SUSTAINABLE URBAN DESIGN. 3 Hours.

Studio and lecture courses to explore and present selected topics in architecture and design. May be repeated for credit as topics change. Prerequisite: Permission of the department.

UDES 4404. URBAN SUSTAINABILITY PROJECT CAPSTONE. 4 Hours.

In the Capstone Course, students will culminate their learning by completing a sustainability project at the Institute for Sustainability and Global Impact (ISGI) at UT Arlington under the supervision of the Chief Sustainability Officer. Student capstone projects will address pressing issues concerning sustainable urban communities. Students may collaborate and work on a project for an external organization, or work on sustainability programs and projects at UT Arlington. Potential capstone sites will range from local non-profits and government agencies to faculty research projects and private sector initiatives. The Capstone Course is a one-semester project. Prerequisite: C or better in UDES 3552. Restricted to Sustainable Urban Design majors. Students must have a minimum cumulative GPA of 2.8 and a minimum major course GPA of 2.8.

UDES 4551. URBAN DESIGN STUDIO III: CLIMATE CHANGE. 5 Hours.

This studio examines specific climate change issues as selected by the instructor. The studio is a recognition of an evolving set of data with shifting timelines and levels of impact for evaluating the ecological impact of climate change, upon the built environment. One of the areas of study will include sea-level rising and its global impact upon coastal cities. The students will engage in problem solving, using contemporary design and planning strategies on a regional scale. Prerequisite: C or better in UDES 3552. Restricted to Sustainable Urban Design majors. Students must have a minimum cumulative GPA of 2.8 and a minimum major course GPA of 2.8.

UDES 4552. URBAN DESIGN STUDIO IV: ADVANCED SUSTAINABLE URBAN DESIGN. 5 Hours.

This studio examines the roles that smart city technologies play in sustainable urban design. The group design projects in the Urban Resiliency and Urban Mobility studios are reassessed, and the course culminates with individual design projects based upon new locations. Prerequisite: C or better in UDES 4551. Restricted to Sustainable Urban Design majors. Students must have a minimum cumulative GPA of 2.8 and a minimum major course GPA of 2.8.