

LANDSCAPE ARCHITECTURE (LAND ARC)

LAND ARC 210 – INTRODUCTION TO LANDSCAPE ARCHITECTURE DESIGN

4 credits.

Introduction to the techniques of landscape design, planning, and management through studio exercises. Principles of graphic communication media, and development of practical graphic skills to enhance ability to communicate with lay and professional audiences.

Requisites: None

Course Designation: Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 211 – SHAPING THE BUILT ENVIRONMENT

3 credits.

Urban, suburban, and rural environments intersect with the natural environment in important yet complex ways. Cultural as well as biophysical systems influence the structure and function of these environments at both local and regional scales. Exploration of these relationships by analyzing built environments and simulating future design and planning scenarios offer a transdisciplinary foundation for subsequent coursework.

Requisites: None

Course Designation: Breadth - Natural Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC/ART HIST/ENVIR ST/GEOG/HISTORY 239 – MAKING THE AMERICAN LANDSCAPE

3-4 credits.

Traces the history and evolution of the American cultural landscape from precolonial times to present. Explores how class, ethnic, and racial inequality have shaped the appearance of the American landscape over time, and how that landscape in turn has affected relationships between people and groups through the present day. Examines extraordinary things (civic structures (like our State Capitol), National Parks, War Memorials) and more ordinary kinds of places (mining towns, cotton plantations, sites of recreation and leisure, and suburban tract housing) to stimulate critical thinking about how these places have served people and groups unequally and disproportionately over time and across space. Considers complex meanings of American spaces and places to different people and groups, stimulating empathy and encouraging participation in a multicultural society.

Requisites: None

Course Designation: Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Either Humanities or Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 250 – SURVEY OF LANDSCAPE ARCHITECTURE DESIGN

3 credits.

Principles of landscape and environmental design; incorporates elements of landscape planning and management. Provides background to the ideas and personalities shaping landscape architecture in America.

Requisites: None

Course Designation: Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 260 – HISTORY OF LANDSCAPE ARCHITECTURE

3 credits.

A critical and historical analysis of our design of outdoor space.

Requisites: None

Course Designation: Breadth - Humanities

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 261 – PRINCIPLES OF LANDSCAPE ARCHITECTURE DESIGN AND GRAPHICS

4 credits.

Basic principles in the design of landscapes to aid in developing individual capacities and approaches to designing. Principles of graphic communication media and development of practical graphic skills.

Requisites: Declared in Landscape Architecture BLA

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC/HORT 263 – LANDSCAPE PLANTS I

3 credits.

Field identification, landscape characteristics, uses, environmental requirements, adaptability of woody ornamental plants; their autumn and winter character.

Requisites: Sophomore standing and (BOTANY/BIOLOGY 130, ZOOLOGY/BIOLOGY/BOTANY 152, or BOTANY 100)

Course Designation: Breadth – Biological Sci. Counts toward the Natural Sci req

Level – Intermediate

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC/ANTHRO/ART HIST/DS/HISTORY 264 – DIMENSIONS OF MATERIAL CULTURE

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

Requisites: None

Course Designation: Breadth – Humanities

Level – Elementary

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 289 – HONORS INDEPENDENT STUDY

1-2 credits.

Independent study as arranged with a faculty member for Honors in the Major.

Requisites: Consent of instructor

Course Designation: Honors – Honors Only Courses (H)

Repeatable for Credit: Yes, unlimited number of completions

LAND ARC 299 – INDEPENDENT STUDIES

1-3 credits.

Independent study as arranged with a faculty member.

Requisites: Consent of instructor

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2023

LAND ARC/F&W ECOL/HORT/PL PATH 309 – DISEASES OF TREES AND SHRUBS

3 credits.

Fundamental disease concepts, pathogens and causal agents, diagnosis, and biologically rational principles and practices for management of diseases of trees and shrubs. Includes field trips

Requisites: (ZOOLOGY/BIOLOGY/BOTANY 152, BOTANY/BIOLOGY 130, or BIOCORE 381) or graduate/professional standing

Course Designation: Breadth – Biological Sci. Counts toward the Natural Sci req

Level – Intermediate

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Grad 50% – Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2018

LAND ARC 311 – INTRODUCTION TO DESIGN FRAMEWORKS AND SPATIAL TECHNOLOGIES

2 credits.

Geodesign considers questions and methods necessary to solve large, complicated, and significant design problems across a range of geographic scales. Introduces methods and technologies related to geodesign problems through interactive lessons, discussions, and laboratory exercises.

Requisites: Sophomore standing

Course Designation: Level – Intermediate

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC 321 – ENVIRONMENT AND BEHAVIOR STUDIO - DESIGNING HEALTH PROMOTING ENVIRONMENTS

4 credits.

Design studio with an emphasis on the application of design principles aimed at promoting people's health and wellbeing in the built environment.

Requisites: LAND ARC 261 and DS 221

Course Designation: Breadth – Social Science

Level – Intermediate

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 353 – LANDSCAPE ARCHITECTURAL TECHNOLOGY I

3 credits.

Problems dealing with the comprehension and modification of the earth's surface including landform design, preparation of grading plans, earthwork calculations.

Requisites: Declared in Landscape Architecture BLA

Course Designation: Level – Intermediate

L&S Credit – Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 354 – LANDSCAPE ARCHITECTURAL TECHNOLOGY II 3 credits.

Problems dealing with construction detailing, including roadways, drainage structures, construction materials, cost estimating, specifications and working drawings.

Requisites: Declared in Landscape Architecture BLA

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC 360 – EARTH PARTNERSHIP RESTORATION EDUCATION: INDIGENOUS ARTS & SCIENCES 1 credit.

Participate in a one-week community-based, intergenerational Institute focused on ecological restoration and water stewardship rooted in Indigenous knowledge while working with Native Nations in Wisconsin. An emphasis is on environmental science aligned with cultural values and indigenous science processes and address environmental, education and health issues through restoration and stewardship action. Learn culturally accurate and authentic resources about tribal sovereignty, history, and culture and contemporary issues relevant to each community. Through hands-on stewardship action, a greater sense of self and diversity of perspectives related to impacts of climate change and preserving biodiversity will be gained.

Requisites: Junior standing

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, for 3 number of completions

Last Taught: Summer 2023

LAND ARC/ENVIR ST 361 – WETLANDS ECOLOGY 3 credits.

Types, origins, settings, and structure of wetlands. Physical, biological, and cultural values, uses and assessments. Physical and biological characteristics and dynamics. Protection, management and restoration.

Requisites: (ZOOLOGY/BIOLOGY 101 and 102), ZOOLOGY/BIOLOGY/BOTANY 152, ZOOLOGY 153, (BIOCORE 381 and 382), BIOLOGY/BOTANY 130, or graduate/professional standing

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 363 – EARTH PARTNERSHIP: RESTORATION EDUCATION FOR EQUITY AND RESILIENCE 3 credits.

Ecological restoration education utilizes the power of place to work towards social justice and sustainability. Work with Native Nations and community partners to apply Earth Partnership's 10 Step process. This process includes historical, cultural, ecological, and social justice components. Learn about assets-based, culturally relevant approaches to working with community partners. Interact with guest speakers and partners to experience firsthand different perspectives on environment, cultural priorities, protocols for interaction, and opportunities for relationship building. Work on community-based stewardship projects and reflect upon your epistemological relationship to land and people as global citizens.

Requisites: Junior standing

Course Designation: Breadth - Either Humanities or Social Science
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, for 2 number of completions

Last Taught: Spring 2024

LAND ARC 366 – INTRODUCTION TO ARCHITECTURAL AND ENVIRONMENTAL DESIGN 3 credits.

Introduces beginning design students to the interdisciplinary processes used in solving three-dimensional design problems for both exterior and interior spaces. Allows students to understand the integration between architectural design, site design and interior design, and how these design realms create physical and sensory experiences in our everyday lives. Helps students develop fundamental verbal and graphic communication skills used in the professional design world. Questions explored in this course include: How to humans experience their environment? How do we perceive and interact with spaces where we live, work, and play? What makes great interior and exterior spaces? How do designers think to solve creative spatial design problems?

Requisites: Sophomore standing

Course Designation: Breadth - Humanities
Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Summer 2023

LAND ARC/ENVIR ST/F&W ECOL/G L E/GEOG/GEOSCI 371 – INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING 3 credits.

Introduction to the Earth as viewed from above, focusing on use of aerial photography and satellite imagery to study the environment. Includes physical processes of electromagnetic radiation, data types and sensing capabilities, methods for interpretation, analysis and mapping, and applications.

Requisites: (Sophomore standing and MATH 113, 114, or 171), graduate/professional standing, or member of Engineering Guest Students

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC/ENVIR ST/F&W ECOL/G L E/GEOG/GEOSCI 372 – INTERMEDIATE ENVIRONMENTAL REMOTE SENSING

3 credits.

Examines intermediate-level concepts in information extraction, data processing and radiative transfer relevant to remote sensing of the environment. Includes transforms, image correction, classification algorithms and change detection, with emphasis on applications for land use planning and natural resource management.

Requisites: LAND ARC/ENVIR ST/F&W ECOL/G L E/GEOG/GEOSCI 371, graduate/professional standing, or member of Engineering Guest Students

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2015

LAND ARC 375 – SPECIAL TOPICS

1-4 credits.

Exploration of special issues or problems in landscape architecture. Topic and faculty vary.

Requisites: Sophomore standing

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Fall 2023

LAND ARC 380 – PLANTS FOR ECOLOGICAL DESIGN I

2 credits.

Plants as the basis for ecological landscape design in urban and rural settings in late summer, fall, and early winter and their role in creating beautiful, resilient, and high performing outdoor spaces that enhance human health and well-being and provide a number of global ecosystem services. Study plants in their native and designed habitats to understand the relationships between and among plants and their environment. Identify the aesthetic, structural, functional, and cultural characteristics of key Wisconsin native plants and a variety of non-invasive horticultural species as well as the composition, structure, and functions of forest, wetland, and grassland communities. Express the essence and cultural meaning of plants and plant communities through hand and digital graphics and writing.

Requisites: LAND ARC 250, (BOTANY 100, BOTANY/BIOLOGY 130, ZOOLOGY/BIOLOGY/BOTANY 152, or BIOCORE 381 and 382), and sophomore standing, or graduate/professional standing

Course Designation: Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC 381 – PLANTS FOR ECOLOGICAL DESIGN II

1 credit.

Plants as the basis for ecological landscape design in urban and rural settings. Study plants in their native and designed habitats to understand the relationships between and among plants and their environment in late winter and early spring. Identify the aesthetic, functional, and cultural characteristics of key Wisconsin native plants and plant communities as well as a variety of non-invasive horticultural species. Discuss how to use plants together in settings with environmental conditions to which they are adapted in order to create resilient and high-performing outdoor spaces that enhance human health and well-being and provide a number of global ecosystem services.

Requisites: LAND ARC 380 or Graduate/professional standing

Course Designation: Breadth - Natural Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 397 – INTERNSHIP IN LANDSCAPE ARCHITECTURE

1 credit.

Integrate knowledge and theory learned in the classroom with practical application and skills development in a professional setting. Includes applied experience and making professional connections in the field of landscape architecture. Apply landscape architecture concepts, practice problem solving-skills, explore multidisciplinary approaches, develop team-work and interpersonal skills, access and use information resources, reflect upon or address ethical and professional issues.

Requisites: Sophomore standing and declared in Landscape Architecture BLA

Course Designation: Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Workplace - Workplace Experience Course

Repeatable for Credit: Yes, for 3 number of completions

Last Taught: Fall 2023

LAND ARC 400 – STUDY ABROAD IN LANDSCAPE ARCHITECTURE

1-6 credits.

Provides an area equivalency for courses taken on Madison Study Abroad Programs that do not equate to existing UW courses. Current enrollment in a UW-Madison study abroad program

Requisites: None

Repeatable for Credit: Yes, unlimited number of completions

LAND ARC 460 – ADVANCED VISUAL COMMUNICATION IN LANDSCAPE ARCHITECTURE

3 credits.

Focuses on the symbolic and representational computer graphics that are essential elements of design communication in landscape architecture. Reviews the strengths and weaknesses of hand and digital media and the use of both when appropriate. Topics and assignments include advanced hand sketching and graphics, computer graphic techniques, digital photography, advanced digital color theory and rendering, digital image processing, CAD drafting, 2D/3D modeling, image compositing, media formats, and video.

Requisites: LAND ARC 261**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Fall 2023**LAND ARC/URB R PL 463 – EVOLUTION OF AMERICAN PLANNING**

3 credits.

The nature and cultural significance of contemporary methods for the systematic formulation of public policies for community, metropolitan, and state development through comprehensive planning. Historic roots, recent trends and new directions in American planning concepts, institutions and professional specializations.

Requisites: Junior standing**Course Designation:** Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Spring 2024**LAND ARC/CHICLA 475 – LATINO URBANISM: DESIGN AND ENGAGEMENT IN THE AMERICAN CITY**

3 credits.

Urban design in the 21st century American city explores a new understanding of urban placemaking and development. Explores the intersections of culture, place, and design to critically address how the socioeconomic dynamics that underlie demographic shifts in the U.S. are influencing urban change in the American landscape. Focuses on the evolution and ways by which Latinos shape the built environment, both in the public realm and in the home.

Requisites: Sophomore standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**LAND ARC 511 – GEODESIGN METHODS AND APPLICATIONS**

3 credits.

Explore and apply methods and technologies used in the geodesign framework that emphasize collaboration among the design professions, the natural and social sciences, and community stakeholders. Exercises will focus on scenarios within the built and natural environment.

Requisites: LAND ARC 311, GEOG/CIV ENGR/ENVIR ST 377, or graduate/professional standing**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Spring 2024**LAND ARC 525 – SOCIAL JUSTICE AND THE URBAN LANDSCAPE**

3 credits.

Examines the cultural, social and political interactions that occur in urban landscapes including parks, plazas, streets and other public open spaces. An examination of past and present landscapes as sites of the struggle for social justice. The focus is on urban landscapes of the United States.

Requisites: Junior standing**Course Designation:** Breadth - Either Humanities or Social Science Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Fall 2022**LAND ARC/ENVIR ST/GEOG/URB R PL 532 – APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS IN PLANNING**

3 credits.

Explores planning-related Geographic Information System (GIS) data, applications, analytical tools, and implementation issues.

Requisites: GEOG/CIV ENGR/ENVIR ST 377 or graduate/professional standing**Course Designation:** Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Fall 2023**LAND ARC 550 – PROFESSIONAL PRACTICE IN LANDSCAPE ARCHITECTURE**

3 credits.

Introduction to operational procedures used in professional offices ranging from private landscape architectural design firms to public agencies.

Requisites: Senior standing and declared in Landscape Architecture BLA**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Fall 2023

**LAND ARC/CIV ENGR/ENVIR ST 556 – REMOTE SENSING
DIGITAL IMAGE PROCESSING**

3 credits.

Techniques of enhancement and quantification of remote sensing imagery. Emphasis on processing and analyzing data gathered by airborne and satellite sensors. Techniques to quantitatively analyze data from photography, electro-optical scanners, satellite systems, and radar and passive microwave systems. Applications to: agriculture and forestry, geology and soils, water quality, and urban and regional planning.

Requisites: LAND ARC/ENVIR ST/F&W ECOL/G L E/GEOG/GEOSCI 371, graduate/professional standing, or member of Engineering Guest Students

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC 560 – PLANTS AND ECOLOGY IN DESIGN

4 credits.

Explores the process of plant selection and placement in the landscape. The desired landscape will be ecologically appropriate to the setting, sustainable, functional in response to goals, and aesthetically pleasing. Acquire an awareness and understanding of the physical characteristics of plant materials and a sensitivity to their needs based on past and present. Emphasis on the recognition of the philosophy of planting design as a dynamic and changing spatial art and science, the relationship between environment and plants, application of design composition principles to plant selection and placement, and functional and utilitarian uses of plants; i.e., the opportunities and constraints for plants in the designed landscape.

Requisites: Declared in Landscape Architecture BLA and HORT/LAND ARC 263

Course Designation: Breadth - Natural Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC 561 – HOUSING AND URBAN DESIGN

4 credits.

An application of landscape design principles and problem-solving methods to housing and urban issues with attention to physical site design, land-use controls, and the relationship between housing and associated land uses. The built environment is continuously changing through multiple land development-and redevelopment-decisions. Public policies on housing, transportation, mortgage financing, and taxation, in conjunction with changing demographics and lifestyle preferences, are just some of the factors that influence the evolving structure and function of the built environment. Landscape architects can play important roles--through design, civic engagement, and policy advocacy--in making our cities and suburbs healthier and more sustainable. Studio projects focus on the central city and/or suburbs.

Requisites: LAND ARC 321

Course Designation: Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2023

LAND ARC 562 – OPEN SPACE PLANNING AND DESIGN

4 credits.

Form-giving design of open spaces in urban and rural settings and management for amenity and functional values. Integration of human activity requirements and experiences with physical and natural site features.

Requisites: LAND ARC 321 or graduate/professional standing

Course Designation: Breadth - Social Science

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Spring 2024

**LAND ARC 563 – DESIGNING SUSTAINABLE AND RESILIENT
REGIONS**

4 credits.

Exploration of broad scale design issues to develop synthesis and design skills. Uses spatial form and bioregional cultural, ecological and environmental concepts to solve land use and conservation problems. Regional design requires advanced techniques for inventory, analysis, and design to help in understanding complex trends, policy and design impacts, hazard mitigation, design intervention suitability, design guidelines, and systems level design. These techniques help us explore the relationships between regions and sites, especially regional implications of site design decisions and site design impacts on regional characteristics and systems.

Requisites: LAND ARC 562

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No

Last Taught: Fall 2023

**LAND ARC/F&W ECOL/ZOOLOGY 565 – PRINCIPLES OF
LANDSCAPE ECOLOGY**

2 credits.

Emphasizes the importance of spatial patterns at broad scales. Concepts and applications are covered.

Requisites: (ZOOLOGY/BOTANY/F&W ECOL 460 or F&W ECOL 550) and (STAT 301, 371, or HORT/F&W ECOL/STAT 571), or graduate/professional standing

Course Designation: Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2019

LAND ARC/ENVIR ST 581 – PRESCRIBED FIRE: ECOLOGY AND IMPLEMENTATION

3 credits.

Covers the use of live fire in land management and provides a background in fire ecology, fire behavior, fire effects, and the prediction of fire behavior for wetland, prairie and savanna fuels. Instruction includes field training with live fire exercises and the use of fire management equipment. Participate in prescribed burns outside of scheduled class times. Confers certificates of completion that qualify an individual to participate on prescribed fire crews with public and private sector organizations.

Requisites: Junior standing**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Spring 2024**LAND ARC 590 – SPECIAL TOPICS**

1-4 credits.

Exploration of special issues or problems in landscape architecture.

Requisites: Junior standing**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions**Last Taught:** Summer 2022**LAND ARC 610 – LANDSCAPE ARCHITECTURE SEMINAR**

3 credits.

Capstone project proposal development from a regional to site scale. Includes site visits with clients to gain a better understanding of local conditions and the client's expectations. The final proposal document is grounded in research and includes a literature review, precedent studies, programmatic development, and inventory and analysis mappings that address issues from ecology to public/private partnerships.

Requisites: Declared in Landscape Architecture BLA**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions**Last Taught:** Fall 2023**LAND ARC 611 – SENIOR CAPSTONE IN LANDSCAPE ARCHITECTURE**

4 credits.

Problems in landscape design, planning and management. Provides an opportunity for synthesis of the knowledge, skills, and approaches learned in previous course work.

Requisites: LAND ARC 610**Course Designation:** Gen Ed - Communication Part B

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: No**Last Taught:** Spring 2024**LAND ARC 621 – DESIGNING HEALTHY COMMUNITIES SEMINAR**

3 credits.

Sustainable community planning and design principles aimed at promoting human health and wellbeing as it relates to the quality of the physical environment. Special topics include access to settings that promote physical activity, social interaction and mental restoration; walk- and bikeability; access healthy food, complete streets, place-making, and biophilic design, active living assessment tools, and architectural sustainability certification systems focusing on the health benefits of good community design.

Requisites: Graduate/professional standing**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2021**LAND ARC 633 – GEOSPATIAL APPROACHES TO CONSERVATION AND ADAPTATION**

2 credits.

Explore and use applications of Geographical Information Systems (GIS), particularly related to landscape ecology, environmental analysis, and conservation design. Learn/practice how to solve spatial environmental questions and proficiently apply design thinking toward landscape conservation and adaptation solutions.

Requisites: LAND ARC 311 and 511**Repeatable for Credit:** No**LAND ARC 634 – GEODESIGN CAPSTONE PROJECT**

3 credits.

Apply integrated skills and knowledge from previous requisite courses to resolve a "real world" geodesign problem. Work with advisor on individual project.

Requisites: LAND ARC 633 and 671**Repeatable for Credit:** No**LAND ARC/DS 639 – CULTURE AND BUILT ENVIRONMENT**

3 credits.

The course explores cultural values embedded in buildings through understanding physical configurations, social organizations, practiced/ symbolic/representational aspects of buildings. The course covers a wide range of cultures and the built environments they produce including examples from the Americas, the Middle East, as well as those of the many ethnic minorities in the U.S.

Requisites: Junior standing**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Fall 2022

LAND ARC 651 – PLANT COMMUNITY RESTORATION AND MANAGEMENT WORKSHOP

4 credits.

Formulation of plant community restoration and management plans; including the preparation of planting plans and working drawings for implementation. Classroom and practical exposure to natural areas management tools, including prescription prairie fire.

Requisites: LAND ARC 211**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions**Last Taught:** Spring 2018**LAND ARC 668 – RESTORATION ECOLOGY**

3 credits.

Restoration is an approach to the conservation of native species, plant communities, and ecosystems. It is an interdisciplinary global enterprise practiced by private and public sector professionals and dedicated volunteers of all ages. Covers both the theory and practice of restoration ecology and examine the current opportunities, challenges, and controversies that underlie the field. The goal may be to preserve nature, but restoration is a fundamentally human enterprise—it is accomplished for and by people. Therefore we cover information from ecology, sociology, and the humanities.

Requisites: BIOCORE 381, ZOOLOGY/BIOLOGY/BOTANY 152, ZOOLOGY/BIOLOGY 102, BIOLOGY/BOTANY 130, or graduate/professional standing**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Fall 2023**LAND ARC/BOTANY 670 – ADAPTIVE RESTORATION LAB**

2 credits.

Field experience in restoration as an adaptive process involving field experimentation; baseline data collection on restoration sites; design of experiments to advance restoration science; quantitative evaluation of restoration outcomes. Includes analysis and interpretation of data.

Requisites: Graduate/professional standing**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Fall 2015**LAND ARC 671 – GEODESIGN FOR SUSTAINABILITY AND RESILIENCY**

3 credits.

Explores the Geodesign concepts and analysis methods that support sustainability and resiliency. A brief history and development of the sustainability and resiliency movements establishes context, motivation and priorities for Geodesign. Characteristics of public participation frame the role of geodesign to engage and empower the community to plan for sustainability and resiliency. Discovery of issues, spatial data and analyses follows a conceptual and geographical trend from local to global scales and urban to rural localities. These include population density, land cover change, urban growth/sprawl, transportation, walkable neighborhoods, water resources, green infrastructure, landscape prioritization, carbon footprint analysis, and climate change. Geodesign approaches include measurement of indicators/metrics, resource management, cost/benefit analyses, and proximity measurements.

Requisites: LAND ARC 311 and 511**Repeatable for Credit:** No**LAND ARC 677 – CULTURAL RESOURCE PRESERVATION AND LANDSCAPE HISTORY**

3 credits.

Provides an introduction to cultural landscape studies as a corollary to cultural conservation in public folklore, environmental planning, natural and cultural resource management, landscape architecture, and the history of landscape architecture. Includes varied concepts of cultural landscape, key historical and cultural landscape research methodologies, and a range of preservation and conservation types involving cultural landscapes, traditional cultural properties, and intangible and tangible cultural heritage. Observe, research, and write about cultural landscapes, gain an understanding of cultural, historical, and natural dynamics of the (built) environment, and become acquainted with aspects of cultural conservation and landscape preservation nationally and internationally.

Requisites: Junior standing**Course Designation:** Breadth - Humanities

Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No**Last Taught:** Spring 2023**LAND ARC 681 – SENIOR HONORS THESIS**

2-4 credits.

Individual mentored study for seniors completing theses for Honors in the Major as arranged with a faculty member.

Requisites: Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Fall 2021**LAND ARC 682 – SENIOR HONORS THESIS**

2-4 credits.

Individual mentored study for seniors completing theses for Honors in the Major as arranged with a faculty member.

Requisites: Consent of instructor**Course Designation:** Honors - Honors Only Courses (H)**Repeatable for Credit:** No**Last Taught:** Spring 2022

LAND ARC 691 – SENIOR THESIS

4 credits.

Individual mentored study for seniors completing theses, as arranged with a faculty member.

Requisites: Consent of instructor

Repeatable for Credit: No

Last Taught: Spring 2001

LAND ARC 692 – SENIOR THESIS

4 credits.

Individual mentored study for seniors completing theses, as arranged with a faculty member.

Requisites: Consent of instructor

Repeatable for Credit: No

Last Taught: Spring 1996

LAND ARC/ENVIR ST/SOIL SCI 695 – APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS IN NATURAL RESOURCES

3 credits.

Course has four components: 1) Detailed review of GIS concepts; 2) Case studies; 3) GIS implementation methods; 4) Laboratory to provide "hands-on" GIS experience.

Requisites: LAND ARC 211 or ENVIR ST/CIV ENGR/GEOG 377 or graduate/professional standing

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 699 – SPECIAL PROBLEMS-LANDSCAPE ARCHITECTURE

1-5 credits.

Independent study as arranged with a faculty member.

Requisites: Consent of instructor

Course Designation: Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2024

LAND ARC 710 – THEORIES OF LANDSCAPE CHANGE

2 credits.

Theories of landscape change in the arts and sciences. Contributions of the scientific method and humanistic frameworks to major issues in landscape architecture.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC 720 – CRITICAL INQUIRY INTO LANDSCAPE DESIGN EXPRESSION

2 credits.

Normative design theory as it relates to historical and contemporary aesthetic expression in landscape design. Review of critical theory and meaning associated with a broad landscape architecture typology.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Fall 2023

LAND ARC 740 – RESEARCH IN LANDSCAPE ARCHITECTURE

3 credits.

Overview of research: Logic and language of the process, substantive issues, criticism of research literature, developments of detailed proposals.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2022

LAND ARC/ANTHRO/ART HIST/DS/HISTORY 764 – DIMENSIONS OF MATERIAL CULTURE

4 credits.

This course introduces students to the interdisciplinary field of material culture studies. It is intended for students interested in any professional endeavor related to material culture, including careers in museums, galleries, historical societies, historic preservation organizations, and academic institutions. During the semester, students have varied opportunities to engage with and contemplate the material world to which people give meaning and which, in turn, influences their lives. Sessions combine in some way the following: presentations from faculty members and professionals who lecture on a phase of material culture related to his/her own scholarship or other professional work; discussion of foundational readings in the field; visits to collections and sites on campus and around Madison; discussion of readings assigned by visiting presenters or the professors; and exams and short papers that engage material culture topics.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 866 – SEMINAR IN NATURAL PLANT COMMUNITY RESTORATION AND MANAGEMENT

1 credit.

Presentations on topics related to plant community management and restoration.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 940 – GRADUATE SEMINAR

1-2 credits.

Individual research, group discussion and workshop covering selected problems relating to the environment and landscape architecture.

Requisites: Graduate/professional standing

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Spring 2024

LAND ARC 990 – RESEARCH

1-12 credits.

Individual mentored research and study for completing theses, as arranged with a faculty member.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: No

Last Taught: Spring 2024

LAND ARC 999 – INDEPENDENT STUDIES

1-3 credits.

Opportunity to explore concepts or issues of interest.

Requisites: Consent of instructor

Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement

Repeatable for Credit: Yes, unlimited number of completions

Last Taught: Fall 2023