

# LANDSCAPE ARCHITECTURE (LAND ARC)

## LAND ARC/AMER IND 106 – EARTH PARTNERSHIP INDIGENOUS ARTS AND SCIENCES

3 credits.

In collaboration with Tribal partners in Wisconsin, emphasize environmental science rooted in land stewardship and land management aligned with cultural values and Indigenous science processes. Experience the culture and ecology of a place while engaging in ecological restoration and stewardship, reflecting on relationships to the land and as global citizens. The intersection of Indigenous knowledge and Western science helps explain the need for a diversity of perspectives to respond to social and environmental justice in our changing world.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Level - Elementary

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

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**Learning Outcomes:** 1. Articulate the importance of legitimizing diverse cultural perspectives and knowledge, and forming equitable relationships in a multicultural society  
Audience: Undergraduate

2. Recognize Indigenous and other cultural groups' contributions to addressing environmental and social justice issues locally, regionally, and globally  
Audience: Undergraduate

3. Comprehend how past traumas of colonization and racism impact communities today along with how inaccurate assumptions impact all peoples  
Audience: Undergraduate

4. Apply an approach to restoration and stewardship that considers diverse perspectives and assets related to equity and inclusion  
Audience: Undergraduate

5. Reflect and deepen one's understanding of the ancestral and contemporary lands of the Ho-Chunk Nation on whose land UW-Madison resides  
Audience: Undergraduate

6. Experience firsthand the resiliency and self-determination of Indigenous communities in Wisconsin.  
Audience: Undergraduate

7. Apply the four guiding principles of respect, responsibility, relationship, and reciprocity with the land community (including human and non-human members) through work in restoration and stewardship.  
Audience: Undergraduate

8. Demonstrate understanding of Earth Partnership's 10 steps for restoration by applying appropriate steps to community-based projects and local Mound restoration efforts.  
Audience: Undergraduate

## LAND ARC 210 – INTRODUCTION TO LANDSCAPE ARCHITECTURE DESIGN STUDIO

4 credits.

Introduction to the techniques and processes used in solving three-dimensional design problems in the urban and natural environment through studio exercises. Understand how design process and design principles create physical and sensory experiences in our everyday lives. Develop fundamental verbal and graphic communication skills used in the professional design world. Gives attention to the basics of design theory and philosophy.

**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 2025

**Learning Outcomes:** 1. Identify how humans perceive, utilize and value both interior and exterior spaces

Audience: Undergraduate

2. Complete design processes used by landscape architects to create effective, sustainable, resilient, and human-scaled spaces and places.  
Audience: Undergraduate

3. Illustrate spatial manipulations, with an emphasis on the analysis of space, two and three-dimensional ordering principles, designing in context, and basic design theories.  
Audience: Undergraduate

4. Apply problem-solving skills and solution-generating activities on basic site design projects.  
Audience: Undergraduate

5. Apply verbal, written, and graphic communication skills commonly used by landscape architects.  
Audience: Undergraduate

**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 2025

**Learning Outcomes:** 1. Understand the diverse range of cultural, biophysical, and socio-political factors that shape the built environments of North America.

Audience: Undergraduate

2. Understand the principles and theories of how the built environment influences human health, safety, and well-being, as well as community sustainability, resiliency, and quality of life.

Audience: Undergraduate

3. Demonstrate the ability to analyze, interpret, and communicate information portraying community character and sense of place across the urban, suburban, and exurban landscape.

Audience: Undergraduate

4. Explain the social, economic, and/or environmental dimensions of the sustainability challenge(s) of designing and planning within the built environment.

Audience: Undergraduate

5. Apply sustainability principles and/or frameworks to addressing the challenge of designing and planning within the built environment.

Audience: Undergraduate

**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 2025

**Learning Outcomes:** 1. Describe and interpret the American landscape as a richly layered historical document mediated by complex relationships between people and groups

Audience: Undergraduate

2. Explain how the American cultural landscape has affected present day circumstances regarding ethnicity and race as well as racial and ethnic inequalities

Audience: Undergraduate

3. Articulate ways in which historical change manifest in buildings, enclosed spaces, and other elements of the American landscape reveal racial, ethnic, class and gender dynamics between and among people and groups over time

Audience: Undergraduate

4. Enlist forms of historical evidence – maps (current and historic), photographs (aerial and otherwise), historical newspapers, census records, deeds and land records – to interpret landscapes and landscape change

Audience: Undergraduate

5. Explain the American landscape as a product of competing interests, which will demonstrate self-awareness and empathy toward the cultural perspectives and worldviews of others

Audience: Undergraduate

**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. Establishes design basics with a focus on the processes used by landscape architects to create meaningful site and context-sensitive designs in the built and natural environment.

**Requisites:** None**Course Designation:** Breadth - Humanities

Level - Elementary

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

**Repeatable for Credit:** No**Last Taught:** Spring 2025

**Learning Outcomes:** 1. Explain the many facets of Landscape Architecture, and the influence of landscape design on human health, safety, and welfare, and on both cultural and natural ecosystems.  
Audience: Undergraduate

2. Identify the basic building blocks of design to understand how and why designed spaces are put together and be able to demonstrate the use of a landscape design process to create more sustainable designs.  
Audience: Undergraduate

3. Identify and describe influential people, organizations, and ideas that have influenced the profession in the past and those that are contributing to it today.  
Audience: Undergraduate

4. Summarize the profession of landscape architecture and their professional ethics and social and environmental responsibilities.  
Audience: Undergraduate

5. Identify and compare the issues affecting our natural and cultural environments, such as climate change, and how landscape architecture addresses these concerns.  
Audience: Undergraduate

6. Evaluate and analyze landscapes around us for enjoyment and an improved understanding of spatial awareness.  
Audience: Undergraduate

7. Illustrate basic site design concepts and analysis data.  
Audience: Undergraduate

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

**Repeatable for Credit:** No**Last Taught:** Spring 2025**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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Fall 2024**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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2025**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 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 2024

**Learning Outcomes:** 1. Identify key geodesign framework questions, models, and iterations

Audience: Undergraduate

2. Locate, evaluate, and interpret representation model data

Audience: Undergraduate

3. Identify the contributions of the interdisciplinary geodesign team and stakeholders in the geodesign framework

Audience: Undergraduate

4. Develop a functional understanding of the geospatial technologies used within the geodesign process

Audience: Undergraduate

### 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 2025

### 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 2025

### 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 2024

### 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 2024

**Learning Outcomes:** 1. Articulate the fundamental importance of legitimizing diverse cultural perspectives, knowledge and relationships with the environment.

Audience: Undergraduate

2. Demonstrate knowledge of WI Native Nations, including history, sovereignty, government structure, treaties and culture.

Audience: Undergraduate

3. Communicate effectively and professionally in our multicultural society informed by place (local culture, history, ecology).

Audience: Undergraduate

4. Articulate an approach to restoration education and stewardship that considers diverse perspectives and assets related educational equity and inclusion.

Audience: Undergraduate

5. Apply sustainability principles and/or frameworks to addressing the challenge for water stewardship and Indigenous cultural practices related to impacts of climate change and preserving biodiversity.

Audience: Undergraduate

6. Analyze sustainability issues and/or practices using a systems-based approach including indigenous ways of knowing.

Audience: Undergraduate

**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 2025

**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:** Fall 2024

**Learning Outcomes:** 1. Articulate the fundamental importance of legitimizing diverse cultural perspectives, knowledge and relationships with the environment.

Audience: Undergraduate

2. Communicate effectively and professionally with community partners about environmental science and restoration informed by place (local culture, history, ecology).

Audience: Undergraduate

3. Reflect upon and share knowledge about local to global community collaboration, place-based education and the importance of historical socio-cultural perspectives for restoration in the community.

Audience: Undergraduate

4. Use sustainability principles for developing personal goals and professional values to reflect upon and articulate a personal land ethic or personal connection to the land and how it guides your actions.

Audience: Undergraduate

5. Articulate an approach to restoration education and stewardship that considers diverse perspectives and assets related to educational equity and inclusion.

Audience: Undergraduate

6. Apply sustainability principles and/or frameworks to addressing the challenge for water stewardship and Indigenous cultural practices related to impacts of climate change and preserving biodiversity.

Audience: Undergraduate

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

**Repeatable for Credit:** No**Last Taught:** Summer 2024

**Learning Outcomes:** 1. Develop an understanding of the design professions of architecture, landscape architecture, and interior design and how they integrate to create holistic environments for living, working, socialization, and recreation.

Audience: Undergraduate

2. Apply the design processes used by designers to create effective, sustainable, resilient, and human-scaled spaces and places.

Audience: Undergraduate

3. Understand how humans experience both interior and exterior spaces through a variety of design encounters.

Audience: Undergraduate

4. Increase awareness of spatial manipulation, with emphases on the analysis of space, two and three-dimensional ordering principles, designing in context, scale, and basic design theories.

Audience: Undergraduate

5. Develop an increased awareness of problem-solving and solution-generating activities, including the establishment of basic design and graphic communication skills that will be further developed in subsequent courses (and during your career as a designer).

Audience: Undergraduate

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

**Repeatable for Credit:** No**Last Taught:** Spring 2025**LAND ARC 373 – MINDFULNESS IN RESTORATIVE ENVIRONMENTS**

3 credits.

Explore the intersection of nature-based mindfulness practices and design of restorative outdoor environments that support health and well-being in public places, including school gardens, botanical gardens, and campus natural areas, with a focus on sensory engagement and sense of belonging. Design and co-design restorative environments and features through a participatory planning process with community partners.

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

Level - Intermediate

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

**Repeatable for Credit:** No**Last Taught:** Fall 2024

**Learning Outcomes:** 1. Apply skills with which to observe, interpret, analyze, and design restorative outdoor environments in public places.

Audience: Undergraduate

2. Apply co-design and participatory planning methods and processes.

Audience: Undergraduate

3. Recognize and comprehend how specific environmental design approaches and features can support well-being of people in outdoor places.

Audience: Undergraduate

4. Recognize and apply concepts and theories of nature-based mindfulness and restorative natural environments.

Audience: Undergraduate

5. Apply principles of community-based engagement and learning for developing personal goals and professional values.

Audience: Undergraduate

6. Use knowledge to build empathy and appreciation for the complexities of one's own and other people's perspectives.

Audience: Undergraduate

**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:** Spring 2025

**Learning Outcomes:** 1. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members.

Audience: Undergraduate

2. Understand, apply and evaluate the principles, theories and research findings underlying landscape architecture.

Audience: Undergraduate

3. Integrate social, cultural, ecological and technological dimensions in solving design problems.

Audience: Undergraduate

**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 2024

**Learning Outcomes:** 1. Identify the aesthetic, functional, and cultural characteristics of key native plants of Wisconsin's forests, wetlands and grasslands as well as a variety of horticultural species as they appear in late summer, fall, and early winter. Use them together to create beautiful, resilient and high performing outdoor spaces that enhance human health and well-being and provide global ecosystem services

Audience: Both Grad & Undergrad

2. Match the plant species used in design to the unique environmental conditions of each site so that they enhance and do not detract from beneficial ecosystem services.

Audience: Both Grad & Undergrad

3. Compile a personal plant portfolio consisting of a minimum of 50 woody and herbaceous plants and information on each plant's form, function and ecosystem contributions

Audience: Both Grad & Undergrad

4. Select plants for a landscape design using a process that begins with and is guided by an understanding of the composition, structure, and dynamics of the natural plant communities found in the region

Audience: Both Grad & Undergrad

5. Perform a literature review of current understandings of the ecosystem services provided by specific plants or propose an experiment or monitoring system to measure ecosystem services in the field.

Audience: Graduate

6. Use hand graphics, notes, and mapping and sampling techniques to illustrate the character of individual plants and the composition and structure of plant communities in the field.

Audience: Both Grad & Undergrad

7. Apply sustainability principles and/or frameworks to address the challenges of creating sustainable cities and communities, and prevent the extinction of species

Audience: Both Grad & Undergrad

8. Use sustainability principles for developing personal goals and professional values

Audience: Both Grad & Undergrad

**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 2025

**Learning Outcomes:** 1. Describe the abilities of plant species to establish, grow and successfully meet design goals based on ultimate size and shape at various life stages, rate of growth, ecological relationships, and aesthetic characteristics of leaves, bark, flower, fruit, habit, and form in both urban and rural settings.

Audience: Both Grad & Undergrad

2. Select plants for a landscape design using a process that begins with and is guided by an understanding of the composition, structure, and dynamics of the natural plant communities found in the region

Audience: Both Grad & Undergrad

3. Use hand graphics, notes, and mapping and sampling techniques to illustrate the character of individual plants and the composition and structure of plant communities in the field to compile a personal plant portfolio for future reference consisting of a core set of 50 or more plant species in late winter and early spring growing conditions

Audience: Both Grad & Undergrad

4. Perform a literature review of current understandings of the ecosystem services provided by specific plants or propose an experiment or monitoring system to measure services in the field.

Audience: Graduate

5. Apply sustainability principles and/or frameworks to address the challenges of creating sustainable cities and communities, and prevent the extinction of species

Audience: Both Grad & Undergrad

6. Use sustainability principles for developing personal goals and professional values

Audience: Both Grad & Undergrad

**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:** Spring 2025

**Learning Outcomes:** 1. Understand and be able to articulate the day-to-day workings of office culture, including professionalism, ethical office conduct, and proper methods of communication in landscape architecture  
Audience: Undergraduate

2. Describe and apply professional relationships with clients and with other business partners (e.g., contractors, product vendors)

Audience: Undergraduate

3. Competently apply landscape architecture concepts in a professional work environment

Audience: Undergraduate

4. Demonstrate ability to apply design theories to solve practical design problems at a variety of scales

Audience: Undergraduate

5. Demonstrate ability to apply design communication skills in a professional setting

Audience: Undergraduate

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

**Repeatable for Credit:** No**Last Taught:** Fall 2024**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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

**Repeatable for Credit:** No**Last Taught:** Spring 2025**Learning Outcomes:** 1. Analyze the role that design, planning, and public engagement have in addressing the needs of Latino communities in the U.S

Audience: Undergraduate

2. Evaluate through a historical lens how socio-economic conditions of Latinos influence choices in the contemporary American city

Audience: Undergraduate

3. Use real world examples to demonstrate how diversity and culture can impact regions, governments, and economies for producing a just city

Audience: Undergraduate

4. Understand the concept of justice in the city through both qualitative and quantitative measure

Audience: Undergraduate

5. Explain the social, economic, and/or environmental dimensions of the sustainability challenges as they relate to planning for Latino communities.

Audience: Undergraduate

6. Analyze the causes of and solutions for the sustainability challenge of marginalized population groups.

Audience: Undergraduate

### **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 2025

**Learning Outcomes:** 1. Determine and articulate processes and approaches of a geodesign framework

Audience: Both Grad & Undergrad

2. Assemble, analyze, and share information within each geodesign model

Audience: Both Grad & Undergrad

3. Build and deploy tools for data collection and citizen engagement

Audience: Both Grad & Undergrad

4. Create design iterations, evaluations, and impact analyses using geodesign tools

Audience: Both Grad & Undergrad

5. Apply sustainability principles and/or frameworks to address the challenge of adaptation and landscape change within the built and natural environment

Audience: Both Grad & Undergrad

6. Analyze sustainability issues and/or practices using a systems-based approach

Audience: Both Grad & Undergrad

7. Evaluate published literature related to geodesign principles.

Audience: Graduate

### **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

**Learning Outcomes:** 1. Understand how urban landscapes shape struggles for social justice

Audience: Undergraduate

2. Acquire and apply skills with which to analyze the social dimensions of urban landscapes

Audience: Undergraduate

3. Recognize and understand how specific design features influence social relations

Audience: Undergraduate

4. Describe how landscape design styles and ideologies are constitutive of social relations through time and how these continue to operate in contemporary urban landscapes

Audience: Undergraduate

5. Apply concepts and theories of social justice to analyze urban landscape design in terms of race, ethnicity, immigration status, gender, and socioeconomic status, among others

Audience: Undergraduate

6. Apply visual methodologies to reveal the meaning of design drawings, photographs, art as well as assemblages such as landscapes, websites, news articles, videos among others

Audience: Both Grad & Undergrad

7. Apply discourse theory to the web of landscape representations to explain struggles for social justice

Audience: Graduate

**LAND ARC/ENVR 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/ENVR 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

**Learning Outcomes:** 1. Identify how planning agencies use GIS.

Audience: Both Grad & Undergrad

2. Explain the nature, characteristics, and possible ways of analyzing spatial data in a planning context.

Audience: Both Grad & Undergrad

3. Communicate geospatial data and analyses effectively.

Audience: Both Grad & Undergrad

4. Obtain and analyze geospatial data using a range of spatial analysis tools for a number of planning practices.

Audience: Both Grad & Undergrad

5. Conduct site-selection and land-suitability analysis.

Audience: Both Grad & Undergrad

6. Identify ethical issues surrounding access to and use of geospatial data.

Audience: Both Grad & Undergrad

7. Analyze and provide written feedback on undergraduate student presentations.

Audience: Graduate

8. Produce a memo on land-suitability analysis.

Audience: Graduate

**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 2024

**LAND ARC/CIV ENGR/ENVR 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/ENVR 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 2024

**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 2024

**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 – URBAN DESIGN AND OPEN SPACE SYSTEMS**

4 credits.

With a focus on public open spaces as shared social places, emphasizes the social dimensions and connectedness of urban design and open space systems through perspectives from allied disciplines, such as landscape architecture, architecture, urban planning, real estate development, urban ecology, civil engineering, and the visual arts. Integrates human activity requirements and experiences with physical (or built) and natural site features. Builds upon technical design skills developed in prior studio work, paying close attention to form-giving, place-making, and sustainability at the site and neighborhood scale.

**Requisites:** LAND ARC 321 and 560

**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 2025

**Learning Outcomes:** 1. Identify how land use regulations and other public policies shape the built environment and which, in turn, influence human health, safety, and well-being

Audience: Undergraduate

2. Describe how networks of formal and informal open spaces function in a variety of urban contexts and are planned and designed by interdisciplinary teams

Audience: Undergraduate

3. Describe how individuals and social groups interact in and respond to particular open space settings and land uses

Audience: Undergraduate

4. Illustrate urban design principles and best practices that influence architectural massing and placement in relationship to transportation and open spaces systems

Audience: Undergraduate

5. Demonstrate how open space can function as sustainable social, economic, and environmental infrastructure systems that support human health and well-being

Audience: Undergraduate

### **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 2024

### **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 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 2025

**Learning Outcomes:** 1. Understand fire ecology, the role that fires play in shaping fire-adapted ecosystems, and the use of prescribed fire for land management.

Audience: Both Grad & Undergrad

2. Qualify for working on any prescribed burn or fire suppression crew located anywhere in the U.S., and become familiar with organizations providing experiences using prescribed fire.

Audience: Both Grad & Undergrad

3. Become familiar with the restoration history, including the role of fire, for the UW Arboretum.

Audience: Both Grad & Undergrad

4. Demonstrate safe and appropriate use of Protective Personal Equipment (PPE) for fire.

Audience: Both Grad & Undergrad

5. Demonstrate proficient knowledge of national standards for participating in prescribed burn or fire suppression crews anywhere in the U.S.

Audience: Both Grad & Undergrad

6. Explain the social, economic, and/or environmental dimensions of the sustainability challenge(s) of fire for land management.

Audience: Both Grad & Undergrad

7. Apply sustainability principles and/or frameworks to addressing the challenge and fundamental concepts related to fire ecology in the Upper Midwest.

Audience: Both Grad & Undergrad

8. Gain enhanced knowledge and skills for fire management leadership.

Audience: Graduate

9. Demonstrate applied knowledge of fire ecology and the effects of fire on plant, fungi or animal communities.

Audience: Graduate

**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

**Learning Outcomes:** 1. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members to identify and solve complicated landscape and planning problems.

Audience: Both Grad & Undergrad

2. Understand, analyze, and apply design and planning theories and principles to urban and rural landscapes to benefit human living conditions.

Audience: Both Grad & Undergrad

3. Integrate humanistic, scientific, legal, political, economic, social, ecological, and technological dimensions in solving novel design and planning problems concerning the betterment of rural and urban natural and cultural landscapes.

Audience: Both Grad & Undergrad

4. Demonstrate advanced critical thinking and the ability to explore ideas in depth and synthesize information with a high degree of competence.

Audience: Graduate

5. Demonstrate an advanced understanding of landscape spaces, functions, and dynamics, as well as interactions between people and the built and natural environment.

Audience: Graduate

6. Engage critically with the scholarship and theory of landscape architecture.

Audience: Graduate

**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 2024

**LAND ARC 611 – LANDSCAPE ARCHITECTURE CAPSTONE II**

4 credits.

Problems in landscape design, planning, and management of projects from a regional to site scale. 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 2025

**Learning Outcomes:** 1. Demonstrate competence and critical judgement in applying intellectual and technical skills necessary for site and landscape-scale design, in particular skills of problem-solving using site inventory/analysis; spatial/temporal analysis; programming; synthesis; oral, written, and visual communication; construction implementation; and post-occupancy evaluation.

Audience: Undergraduate

2. Demonstrate critical thinking and the ability to explore ideas and synthesize information, both independently and in collaboration with interdisciplinary team members to identify and solve complicated landscape design and planning problems.

Audience: Undergraduate

3. Understand, apply, and evaluate the principles, theories, and recent research findings in the discipline of landscape architecture.

Audience: Undergraduate

4. Integrate humanistic, scientific, legal, political, economic, social, ecological, and technological dimensions in solving novel design and planning problems concerning the betterment of rural and urban natural and cultural landscapes.

Audience: Undergraduate

5. Understand, analyze, and apply design and planning theories and principles to urban and rural landscapes to benefit human living conditions.

Audience: Undergraduate

**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

**Learning Outcomes:** 1. Think critically about the impact the physical environment has on people and the role environmental designers play in creating healthy places.

Audience: Graduate

2. Identify and summarize relevant literature by noted authors in the field and encourage them to seek further knowledge by exploring research, precedents and best-case scenarios.

Audience: Graduate

3. Demonstrate knowledge about health problems that intersect with the physical environment.

Audience: Graduate

4. Integrate environment-health performance standards and metrics and their functional value in design programming.

Audience: Graduate

5. Explain the social, economic, and/or environmental dimensions of the sustainability challenge(s) of active living in the built environment.

Audience: Graduate

6. Apply sustainability principles and/or frameworks to addressing the challenge of health promotion through planning and design of public open space.

Audience: Graduate

**LAND ARC/DS 639 – CULTURE AND BUILT ENVIRONMENT**

3 credits.

Explores cultural values embedded in buildings through understanding physical configurations, social organizations, practiced/symbolic/representational aspects of buildings. 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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2024**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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2024**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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No**Last Taught:** Fall 2015**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&amp;S Credit - Counts as Liberal Arts and Science credit in L&amp;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.

Modern GIS desktop and web-based workflows, analyses, and visualizations related to natural resource and environmental planning issues and communication. Guest lectures from agency and industry professionals.

**Requisites:** LAND ARC 311, 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 2025

**Learning Outcomes:** 1. Develop and apply appropriate geospatial analysis workflows related to the study and conservation of natural resources.

Audience: Both Grad & Undergrad

2. Identify and evaluate sources of primary and secondary geospatial data.

Audience: Both Grad & Undergrad

3. Develop methods for collecting primary geospatial data

Audience: Both Grad & Undergrad

4. Communicate analytical results in visual and graphical forms.

Audience: Both Grad & Undergrad

5. Evaluate literature related to geospatial technologies in environmental science and natural resource issues.

Audience: Graduate

**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 2025

**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 2025**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 2022**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 2025**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:** Spring 2025