

## Fall 2020 Course Descriptions as of 04/05/2020 08:12 PM

Information in Browse Course Catalog is subject to change. Information is term specific. Please refer to the appropriate term when searching for course content. Key to Course Descriptions may be found at: [http://rcs.registrar.arizona.edu/course\\_descriptions\\_key](http://rcs.registrar.arizona.edu/course_descriptions_key).

### Landscape Architecture (LAR)

#### **LAR 150B1: American Design on the Land** (3 units)

**Description:** This course is broad exploration of individuals from diverse backgrounds who have helped shape the American landscape. Examination of original writings, and built environments including cities, parks, gardens, vernacular expressions, and preserves of wild, scenic, and cultural landscapes will provide the framework for discussion about landscape design as a comprehensive art form and dialog between man and nature.

**Grading basis:** Regular Grades

**Career:** Undergraduate

<b>Course Components:</b>	Discussion	May Be Offered
	Lecture	Required

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Enrollment not allowed if you have previously taken INDV 102 "American Design on the Land" (Topic 1).

**General Education:** INDV 102

#### **LAR 350: Parks and Urban Public Spaces** (3 units)

**Description:** This course exams the history, function, politics and design of parks, gardens and other urban public spaces in American cities. A typology of public space will be presented and used to examine public life today and how design and public involvement influence the nature of public space. The course will examine contemporary issues in parks and public space such as place-making, environmental integrity and sustainability, diversity and accessibility issues, children and nature, and the privatization of public space.

**Grading basis:** Regular Grades

**Career:** Undergraduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

Main Campus: Fall, Spring, Summer

**General Education:** Tier 2 Individuals & Societies

**Honors Course:** Honors Contract

**Honors Course:** Honors Contract

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 415: Sustainable Ecotourism Development (3 units)**

**Description:** This course examines sustainable tourism planning theory and process, including case studies of past and present tourism development in Latin America, the Middle East, and the Pacific Rim nations. Each student will have the opportunity to develop and present regional as well as site specific tourism development plans for select socio-economic and environmental contexts. This course covers both issues and methods in planning for tourism development from the perspective of sustainable development, and this may be generally defined as using resources to meet the needs of society today in such a way as to ensure the availability of resources to meet the needs of future generations. To accomplish this requires the application of a variety of traditional public planning methods, with an emphasis on community participation and ecosystem management models. Studies in this area of specialization are necessarily interdisciplinary in nature and focus on design and planning issues relevant to development programs in sustainable tourism. Emphasis is given to holistic design and planning methodologies that consider cultural, economic, functional, environmental, and aesthetic impacts on indigenous populations and ecological contexts. Much of the research focuses on alternative tourism and coastal development strategies in developing regions of the world. Faculty and student projects include research in Southwestern United States, Latin America, the Caribbean, the Middle East, and the Pacific Rim. Strong interdisciplinary relationships have developed with Architecture, Planning, and Business Management, and the opportunity exists to work with students and faculty from these various disciplines in interdisciplinary teams. Class format will include case studies, group read, write and discuss exercises, independent research and subsequent in class presentations, field trips including site inventory and analysis as well as development of basic conceptual tourism plans for select areas. This course will also be considered a prerequisite for our summer design and planning internships abroad, i.e. Palestine 2010 and Panama 2011. Undergraduate participants will be required to work on the one site specific tourism team planning project and forego participation on the regional project.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** LAR 515

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**LAR 420: Plant Materials (4 units)**

**Description:** This course focuses on the examination and evaluation of plants effectively used in landscapes of the Southwest. Emphasis is placed on strategies useful for plant identification and appropriate plant selection for a variety of landscape uses. Field studies will be the primary mode of instruction whereas classroom lectures provide support material for the field work.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:**

**Course typically offered:**

Main Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 423: Landscape Ecology** (3 units)

**Description:** The emphasis of this course is the understanding and subsequent use of principles of landscape ecology. This will be accomplished through the study of how spatial heterogeneity in landscapes influences various ecological processes in natural and created landscapes. Lectures will primarily focus on an abbreviated review of ecosystem processes, characterization of landscape pattern and dynamics, and the consequences of these factors on the environments we examine in the profession of landscape architecture. Material will typically be presented with a more global perspective, whereas class discussions and field trips will generally focus on regional examples. Topics and concepts related to landscape ecology such as creating sustainability in environments and rehabilitation of terrestrial plant communities will also be highlighted in the course.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** LAR 523

**Course typically offered:**

Main Campus: Spring

**LAR 430: Introduction to Digital Media** (2 units)

**Description:** This two-credit studio exposes students to basic and advanced elements of media design communication in landscape architecture and planning. Through tutorials and exercises, using several industry-standard computer applications, we will work to increase our knowledge and skill in computer graphic conventions and techniques.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Studio Required

**Co-convened with:** LAR 530

**Course typically offered:**

Main Campus: Fall, Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 433: Advanced Graphic Communications (3 units)**

**Description:** This elective studio focuses on the continuation and elaboration of digital and hand graphics presented in the first year of our curriculum. We will continue to develop fluency in hand graphics and design perspectives, color and presentation rendering techniques, desktop publishing, computer graphics, and Web authoring. The course focuses on the development of the following useful end products: (1) Personal portfolios describing each student's abilities in design, planning, graphics, computer literacy, and production oriented tasks; and (2) Personal Web page portfolios containing the aforementioned data. Graduate students only - two 500 word case studies discussing aspects of exceptional offices and their method of practice; verbally presented to entire class in web-based format, (This work will be evaluated as 20 points out of a possible 120 points for graduate students).

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with: LAR 533**

**Course typically offered:**

Main Campus: Spring

**LAR 440: History, Theory, and Contemporary Landscape Architecture (3 units)**

**Description:** This 3-credit course examines landscape architecture from a historic and contemporary perspective as reflected in theory and practice. Through case reviews of built works including significant estates, gardens, urban designs, park systems, corporate landscapes, restored natural sites, heritage sites, waterfront projects, resorts, et al., we will explore the evolution of design ideology and application of theory in the practice of landscape architecture.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:**    Lecture                  Required

**Co-convened with: LAR 540**

**Course typically offered:**

Main Campus: Fall

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

### **LAR 450: Green Infrastructure** (3 units)

**Description:** The goal of this course is the advancement of students' knowledge and capabilities regarding Green Infrastructure concepts and the issues and techniques involved in implementation of Green Infrastructure. The course provides an overview as well as more in-depth coverage of the science, practical context, and creation of Green Infrastructure. The built environment of arid regions is emphasized, with Tucson Case Studies providing practical focus to content and learning objectives. The term Green Infrastructure, as used in this course, aligns with the following EPA description: "Green infrastructure uses vegetation, soils, and natural processes to manage water and create healthier urban environments... at the scale of a neighborhood or site, green infrastructure refers to stormwater management systems that mimic nature by soaking up and storing water." The course features lectures, interactive discussions and presentations, and guest presentations and tours led by experts in their fields. Students take a series of quizzes, a mid-term and a final exam, along with a number of homework assignments / exercises. A special research report is required of Graduate Students.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:**      Lecture                                      Required

**Also offered as:** ENVS 450, PLG 450, SBE 450

**Co-convened with:**

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** Prior coursework in related fields is recommended along with familiarity with office productivity software tools (Excel & PowerPoint) along with research, analytic, and writing skills.

**Field trip:** A number of potential tours are proposed to allow students to engage with applied contexts and professionals in the field.

**Home department:** Environmental Science

**Honors Course:** Honors Contract

**Honors Course:** Honors Contract

**Student Engagement Activity:** Discovery

**Student Engagement Competency:** Sustainability

### **LAR 460: Professional Practice** (2 units)

**Description:** This course will address issues associated with professional practice for design and development students, including: professionalism, registration, relationships and roles of various disciplines, professional roles, services and fees, construction contract documents, bid documents and procedures, and business organization and operation.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:**      Lecture                                      Required

**Co-convened with:** LAR 560

**Course typically offered:**

Main Campus: Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 470: Intro to GIS for Planning and Landscape Architecture** (4 units)

**Description:** This course is an introduction to Geographic Information Systems (GIS) for graduate students in planning and landscape architecture and undergraduate students interested in design and the built environment. We will focus on three core usage domains of GIS: data management, communication/visualization, and analysis. Specifically, this class focuses on how fluency in these domains contributes to better design and planning of the built environment.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** LAR 570

**Course typically offered:**

Main Campus: Fall, Spring

**LAR 471F: Introduction to Heritage Conservation** (3 units)

**Description:** An overview of the interdisciplinary paradigms, principles, programs, and players in the field of heritage conservation ranging from local to international contexts.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Also offered as:** ARC 471F

**Co-convened with:** ARC 571F

**Course typically offered:**

Main Campus: Fall

**Student Engagement Activity:** Professional Development

**Student Engagement Competency:** Interdisciplinarity

**LAR 486: Materials Conservation** (3 units)

**Description:** This class will provide an overview of materials conservation practice for adobe, brick, stone, wood, metal and glass, with a focus on materials typical of the Southwest. Lectures will complement hands-on work in the field. The course will include several Saturday field trips to participate in an on-site conservation project.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** LAR 586

**Course typically offered:**

Main Campus: Fall, Spring, Summer 1 and 2

**Field trip:** Two Saturday field trips, 9:00 am - 2:00 pm

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 497J: Documentation and Interpretation of the Historic Built Environment** (3 units)

**Description:** Examines methods to document buildings, districts and cultural landscapes and methods to interpret historical and architectural significance. Focuses on historic built environments of Greater Southwest including semester-long service-learning project applying documentation and interpretation methodologies.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Workshop Required

**Equivalent to:** LAR 497J, PLG 497J, PLN 497J

**Also offered as:** ARC 497J, PLG 497J

**Co-convened with:** ARC 597J

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ARC 471F or consent of instructor.

**Enrollment requirement:** ARC 471F

**Student Engagement Activity:** Community Partnership

**Student Engagement Competency:** Diversity and Identity

**LAR 510: Design Studio I** (6 units)

**Description:** Development of visual and graphic skills; functional, aesthetic, environmental, and socio-cultural design ordering systems; concept-getting; form generation; and design theory and criticism. Interrelationships among design, site engineering, materials, and construction techniques.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Studio Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** For majors only.

**LAR 511: Design Studio II** (6 units)

**Description:** Design processes, graphic and verbal communications, and design synthesis. Studio projects based on site ecology, inventory/analysis, socio-cultural factors, and artistic principles of design.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Studio Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** Open to majors only.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**LAR 515: Sustainable Ecotourism Development (3 units)**

**Description:** This course examines sustainable tourism planning theory and process, including case studies of past and present tourism development in Latin America, the Middle East, and the Pacific Rim nations. Each student will have the opportunity to develop and present regional as well as site specific tourism development plans for select socio-economic and environmental contexts. This course covers both issues and methods in planning for tourism development from the perspective of sustainable development, and this may be generally defined as using resources to meet the needs of society today in such a way as to ensure the availability of resources to meet the needs of future generations. To accomplish this requires the application of a variety of traditional public planning methods, with an emphasis on community participation and ecosystem management models. Studies in this area of specialization are necessarily interdisciplinary in nature and focus on design and planning issues relevant to development programs in sustainable tourism. Emphasis is given to holistic design and planning methodologies that consider cultural, economic, functional, environmental, and aesthetic impacts on indigenous populations and ecological contexts. Much of the research focuses on alternative tourism and coastal development strategies in developing regions of the world. Faculty and student projects include research in Southwestern United States, Latin America, the Caribbean, the Middle East, and the Pacific Rim. Strong interdisciplinary relationships have developed with Architecture, Planning, and Business Management, and the opportunity exists to work with students and faculty from these various disciplines in interdisciplinary teams. Class format will include case studies, group read, write and discuss exercises, independent research and subsequent in class presentations, field trips including site inventory and analysis as well as development of basic conceptual tourism plans for select areas. This course will also be considered a prerequisite for our summer design and planning internships abroad, i.e. Palestine 2010 and Panama 2011. Undergraduate participants will be required to work on the one site specific tourism team planning project and forego participation on the regional project. Graduate-level requirements include a regional tourism planning project worth 20% of final grade.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Co-convened with:**

**Course typically offered:**

Main Campus: Fall, Spring

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 520: Plant Materials** (4 units)

**Description:** Laboratories focus on identification and description of native and select exotic landscape plants frequently used in landscape design and revegetation in the Southwest. Lectures emphasize terminology, plant care and maintenance, and influence of site conditions and requirements on plant selection.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall

**LAR 522: Landscape Analysis** (3 units)

**Description:** Integrated field and classroom instruction introduces the student to inventory and analysis of biological, physical, social/behavioral, and cultural elements of the landscape. Projects will incorporate principles of landscape ecology and regional landscape planning. Output of the course will deal with implications of the above-named elements on design. In addition, design programming and data manipulation will be introduced and a conceptual design for a given site will be developed.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Laboratory May Be Offered  
Lecture Required

**Also offered as:** RED 522

**Course typically offered:**

Main Campus: Fall

**LAR 523: Landscape Ecology** (3 units)

**Description:** Survey of current principles of landscape ecology, emphasizing how spatial heterogeneity and human activities influence ecological systems. Discussion and field trips focus on landscape management issues in the Southwest.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Spring

**Field trip:** Field trip

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

### LAR 523: Landscape Ecology (3 units)

**Description:** The emphasis of this course is the understanding and subsequent use of principles of landscape ecology. This will be accomplished through the study of how spatial heterogeneity in landscapes influences various ecological processes in natural and created landscapes. Lectures will primarily focus on an abbreviated review of ecosystem processes, characterization of landscape pattern and dynamics, and the consequences of these factors on the environments we examine in the profession of landscape architecture. Material will typically be presented with a more global perspective, whereas class discussions and field trips will generally focus on regional examples. Topics and concepts related to landscape ecology such as creating sustainability in environments and rehabilitation of terrestrial plant communities will also be highlighted in the course. Graduate-level requirements include case studies in addition to data analysis for projects one and two. Evaluation of assignments will be based on organization, and presentation.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Co-convened with: LAR 423**

**Course typically offered:**

Main Campus: Spring

**LAR 526: Planting Design** (4 units)

**Description:** Principles of planting design, planting design process, and functional and esthetic uses of plants in designs are discussed. Studio projects focus on development of planting plans for sites with various scopes and conditions.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Fall

**LAR 529: Introduction to the Built Environment (3 units)**

**Description:** An introduction to major cultural and theoretical issues that have shaped the built environment, including aspects of planning, landscape architecture, and architecture, through a series of in-depth, interdisciplinary, thematic explorations.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Also offered as:** ARC 529, PLG 529

**Course typically offered:**

### Main Campus: Fall

**Recommendations and additional information:** Admission to the M.Arch, LAR or PLG graduate programs.

**Home department:** School of Architecture

**-SA** represents a Student Abroad & Student Exchange offering

-**CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 530: Introduction to Digital Media** (2 units)

**Description:** This two-credit studio exposes students to the following elements of media design communication: the graphic language of diagramming, basic hand- and computerized graphic conventions and techniques, and several computer programs applications.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Studio Required

**Course typically offered:**

Main Campus: Spring

**LAR 531: 3D Modeling and Visualization** (3 units)

**Description:** This course study 3D modeling and visualization techniques, and their application to landscape architectural design communication. Current theories and new technologies including computer graphics, game engines, and interactive multi-media techniques will be discussed.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 533: Advanced Graphic Communications** (3 units)

**Description:** This elective studio focuses on the continuation and elaboration of digital and hand graphics presented in the first year of our curriculum. We will continue to develop fluency in hand graphics and design perspectives, color and presentation rendering techniques, desktop publishing, computer graphics, and Web authoring. The course focuses on the development of the following useful end products: (1) Personal portfolios describing each student's abilities in design, planning, graphics, computer literacy, and production oriented tasks; and (2) Personal Web page portfolios containing the aforementioned data. ¿Graduate students only - two 500 word case studies discussing aspects of exceptional offices and their method of practice; verbally presented to entire class in web-based format, (This work will be evaluated as 20 points out of a possible 120 points for graduate students). Graduate-level requirements include development of an additional case study research on a variety of design and planning offices and evaluate each across a number of criterion: location, project types, inner-structure (how good ideas are generated, identified and developed), the office's record of excellence in project design and delivery. These case studies will build off of previous research by Dana Cuff and Marv Adelson at UCLA regarding "excellence in practice".

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**      Lecture                                      Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Co-convened with:** LAR 433

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** LAR 511 (Design Studio II) or consent of instructor.

**LAR 540: Contemporary Landscape Architecture** (2 units)

**Description:** This 2-credit course examines 20th and 21st century prominent design figures that have shaped the profession of landscape architecture. Through case reviews of built works including significant gardens, urban designs, recreational areas, corporate landscapes, restored natural sites, heritage sites, waterfront projects, resorts, et al., we will explore the evolution of design ideology and theory in applied landscape architectural practice.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**      Lecture                                      Required

**Course typically offered:**

Main Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 541: History and Theory of Landscape Architecture (2 units)**

**Description:** This 2-credit course examines landscape architecture from an historic and contemporary perspective as reflected in theory and practice. Through case reviews of built works including significant estates, gardens, urban designs, park systems, corporate landscapes, restored natural sites, heritage sites, waterfront projects, resorts, et al., we will explore the evolution of design ideology and application of theory in the practice of landscape architecture.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

Main Campus: Spring

**LAR 548: Conservation Planning & Wildland Recreation (3 units)**

**Description:** This course will introduce the concepts and techniques used in the growing field of human use management in outdoor recreation settings. The focus is on the sociological dimensions of the recreation experience and an understanding of the principles, practices, and dilemmas of outdoor recreation management in natural areas. Graduate-level requirements include students to be team leaders during the project phase of the class. They will be expected to learn how to be project coordinators and work with undergraduate students.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Equivalent to: LAR 548**

**Also offered as: RNR 548**

**Co-convened with: LAR 448**

**Course typically offered:**

Main Campus: Fall

**Home department:** Renewable Natural Resources

**-SA** represents a Student Abroad & Student Exchange offering

-**CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**Description:** The goal of this course is the advancement of students' knowledge and capabilities regarding Green Infrastructure concepts and the issues and techniques involved in implementation of Green Infrastructure. The course provides an overview as well as more in-depth coverage of the science, practical context, and creation of Green Infrastructure. The built environment of arid regions is emphasized, with Tucson Case Studies providing practical focus to content and learning objectives. The term Green Infrastructure, as used in this course, aligns with the following EPA description: "Green infrastructure uses vegetation, soils, and natural processes to manage water and create healthier urban environments... at the scale of a neighborhood or site, green infrastructure refers to stormwater management systems that mimic nature by soaking up and storing water." The course features lectures, interactive discussions and presentations, and guest presentations and tours led by experts in their fields. Students take a series of quizzes, a mid-term and a final exam, along with a number of homework assignments / exercises. A special research report is required of Graduate Students.

**Career:** Graduate

**Also offered as:** ENVS 550, PLG 550, SBE 550

**Co-convened with:**

**Course typically offered:**

Main Campus: Fall

**Field trip:** A number of potential tours are proposed to allow students to engage with applied contexts and professionals in the field.

**Home department:** Soil, Water, & Environmental Sciences

**Description:** Engineering aspects of landscape design and site planning. Development of technical competency in grading, storm water management, earthwork, and road alignment utilizing aesthetics and design principles as well as an understanding of ecological sensitivity.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** LAR 510.

-**CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 555: Landscape Construction** (4 units)

**Description:** This course is about design implementation. It is a continuation of site engineering which had a specific emphasis on the use of landform to express design ideas and to technically resolve design issues. Landform is one of the main 'forms' that landscape architects use to express their design intent but there are other components that are part of what is termed 'construction documents or CDs. This course has several goals and many learning objectives. The primary goal is stated in the above paragraph, to allow you to technically communicate your design in a manner where it can be constructed. The second is to prepare you for professional practice noting that you cannot possibly learn all that one undertakes in an office situation. You will have the vocabulary or the foundation to be conversant.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Spring

**LAR 556: Irrigation Design** (2 units)

**Description:** Principles of irrigation system design; introduction to system components and applications; construction responsibilities and design liabilities. Requirements include a topical research paper on an irrigation design subject.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** Open to majors only.

**LAR 560: Professional Practice** (2 units)

**Description:** The practice of landscape architecture including professionalism, registration, the landscape architectural profession, services and fees, construction contract documents, bid documents and procedures, and business organization and operation.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Co-convened with:**

**Course typically offered:**

Main Campus: Spring

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**Description:** This course is an introduction to Geographic Information Systems (GIS) for graduate students in planning and landscape architecture and undergraduate students interested in design and the built environment. We will focus on three core usage domains of GIS: data management, communication/visualization, and analysis. Specifically, this class focuses on how fluency in these domains contributes to better design and planning of the built environment.

**Career:** Graduate

**Co-convened with: LAR 470**

**Course typically offered:**

Main Campus: Fall

**LAR 571F: Introduction to Heritage Conservation** (3 units)

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Equivalent to: LAR 571F**

**Also offered as: ARC 571F, PLG 571F**

**Course typically offered:**

Main Campus: Fall

**Description:** This class will provide an overview of materials conservation practice for adobe, brick, stone, wood, metal and glass, with a focus on materials typical of the Southwest. Lectures will complement hands-on work in the field. The course will include several Saturday field trips to participate in an on-site conservation project.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Co-convended with: LAR 486**

**Course typically offered:**

**Main Campus: Fall, Spring, Summer 1 and 2**

**Field trip:** Two Saturday field trips, 9:00 am - 2:00 pm

**Enrollment requirement:** ANTH 696A

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 593: Internship** (1 - 6 units)

**Description:** Specialized work on an individual basis, consisting of training and practice in actual service in a technical, business, or governmental establishment.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**LAR 596A: Landscape Architecture Seminar I** (1 unit)

**Description:** First in a series of academic seminar courses for students engaged in the thesis or final report preparation. The course exposes students to various components of professional scholarship.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Course typically offered:**

Main Campus: Fall

**LAR 596B: Landscape Architecture Seminar II** (1 unit)

**Description:** The second in a series of academic seminar courses for students engaged in the thesis or final report preparation. This course exposes students to various components of professional scholarship.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Seminar Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** Prerequisite or concurrent registration, LAR 597A. LAR 596A or consent of instructor.

**LAR 596C: Landscape Architecture Seminar III** (2 units)

**Description:** The third in a series of academic seminar courses for students engaged in the thesis or final report preparation. This course exposes students to various components of professional scholarship.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Seminar Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** LAR 596B, LAR 597A or equivalent.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 596D: Landscape Architecture Seminar IV** (2 units)

**Description:** The fourth in a series of academic seminar courses for students engaged in the thesis or final report preparation. This course exposes students to various components of professional scholarship.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Seminar Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** LAR 596C, LAR 597A or equivalent.

**LAR 597A: Research Methods** (3 units)

**Description:** An interdisciplinary survey of research methods applicable to research in Architecture, Planning, and Landscape Architecture. Graduate-level requirements include an additional assignment of seeking out a granting agency applicable to their research topic and following their application guidelines in the completion of this assignment.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Workshop Required

**Equivalent to:** LAR 597A, PLG 597A, PLN 597A

**Also offered as:** ARC 597A, PLG 597A

**Course typically offered:**

Main Campus: Fall

**Home department:** School of Architecture

**LAR 597J: Documentation and Interpretation of the Historic Built Environment** (3 units)

**Description:** Examines methods to document buildings, districts and cultural landscapes and methods to interpret historical and architectural significance. Focuses on historic built environments of Greater Southwest including semester-long service-learning project applying documentation and interpretation methodologies. Graduate-level requirements include transforming a service-learning project into web-accessible format to integrate into Preservation Studies website.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Workshop Required

**Equivalent to:** LAR 597J, PLG 597J, PLN 597J

**Also offered as:** ARC 597J, PLG 597J

**Co-convened with:** LAR 497J

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ARC 471F/571F or consent of instructor.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 599: Independent Study** (1 - 5 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study      Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**LAR 610: Design Studio III** (6 units)

**Description:** Complex landscape design and planning problems within an interdisciplinary area.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture      Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** For majors only.

**LAR 611: Design Studio IV** (6 units)

**Description:** A continuation of the landscape architecture design sequence where students encounter larger and more sophisticated design and planning projects. Work will be undertaken on an individual and team basis involving previously covered material and inclusion of subjects outside of traditional landscape architecture.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Studio      Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** LAR 610 (Design Studio III) or consent of instructor.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 612: Design Studio V** (6 units)

**Description:** An interdisciplinary course offered in conjunction with the allied environmental design professions of architecture and planning. Students will undertake complex urban and rural design projects in coordinated teams that will develop an interdisciplinary understanding of the roles that professionals play. Real-world problems will be addressed that are often community-based. Options will also be offered to students for individual selection.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
	Studio	May Be Offered

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** LAR 611 or consent of instructor.

**LAR 623: Landscape Planning Studio** (3 units)

**Description:** Theories and models in landscape planning; planning issues and methods; case studies; one major studio planning project.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** LAR 622 or consent of instructor.

**LAR 693: Internship** (1 - 8 units)

**Description:** Specialized work on an individual basis, consisting of training and practice in actual service in a technical, business, or governmental establishment.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

<b>Course Components:</b>	Independent Study	Required
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**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 694: Practicum** (1 - 6 units)

**Description:** The practical application, on an individual basis, of previously studied theory and the collection of data for future theoretical interpretation.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**LAR 694A: Landscape Architecture Teaching** (1 - 2 units)

**Description:** The practical application, on an individual basis, of previously studied theory and the collection of data for future theoretical interpretation.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Course typically offered:**

Main Campus: Fall, Spring

**LAR 694B: Landscape Architecture Professional Experiences** (4 units)

**Description:** The practical application, on an individual basis, of previously studied theory and the collection of data for future theoretical interpretation.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Course typically offered:**

Main Campus: Summer

**Recommendations and additional information:** LAR 511. Open to majors only or consent of instructor.

**LAR 696A: Professional Practice Seminar** (1 unit)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated for a maximum of 2 units.

**Course typically offered:**

Main Campus: Fall, Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 699: Independent Study** (1 - 5 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**LAR 900: Research** (1 - 8 units)

**Description:** Individual research, not related to thesis or dissertation preparation, by graduate students.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**LAR 909: Master's Report** (1 - 9 units)

**Description:** Individual study or special project or formal report thereof submitted in lieu of thesis for certain master's degrees.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Spring

**LAR 910: Thesis** (1 - 8 units)

**Description:** Research for the master's thesis (whether library research, laboratory or field observation or research, artistic creation, or thesis writing). Maximum total credit permitted varies with the major department.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Course typically offered:**

Main Campus: Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**LAR 920: Dissertation** (1 - 9 units)

**Description:** Research for the doctoral dissertation (whether library research, laboratory or field observation or research, artistic creation, or dissertation writing).

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.