Landscape Architecture (LARC)

Courses

LARC 0841. Sustainable Design. 3 Credit Hours.
What’s the big deal about global warming and how should we respond to it? Explore the issues and underlying causes. See how contemporary designers from Germany, Netherlands, UK and Japan are responding to scientific knowledge with sustainable designs for buildings, cars, towns and parks. Develop your own creative project to reduce the greenhouse effect. Have you ever wondered about what happens to local abandoned factories and degraded streams and rivers? Philadelphia is a national hotbed for sustainable design. Visit local restoration sites, modern “green” buildings, parks that reclaim waste water and transformed industrial parks to see firsthand what is happening in our area. Learn how design is transforming to propel us toward a low waste, energy conserving society in the 21st century. NOTE: This course fulfills a Science & Technology (GS) requirement for students under GenEd and Science & Technology Second Level (SB) for students under Core. This course should not be taken by students who have successfully completed LARC 1013.

Course Attributes: GS
Repeatability: This course may not be repeated for additional credits.

LARC 0852. Green vs. Gray: Improving and Sustaining Urban Ecosystems. 3 Credit Hours.
Explores urban ecosystems and methods of improving and sustaining urban environments using the City of Philadelphia as a living laboratory. Students learn about urban ecology, urban field experiments, and the work required to sustain green infrastructure within a city landscape. As a Community-Based Learning (CBL) course, students engage in ten hours of field work and environmental stewardship which can range from the Pennsylvania Horticultural Society's Tree Tender training, tree planting, restoring urban ecological systems and vacant lots, working in sustainable urban agriculture and/or greening school rooftops. NOTE: This course fulfills a Science & Technology (GS) requirement for students under GenEd and Science & Technology Second Level (SB) for students under Core.

Course Attributes: GS
Repeatability: This course may not be repeated for additional credits.

LARC 1013. Natural and the Built Environment. 3 Credit Hours.
An introduction to the interrelated disciplines of Landscape Architecture, Horticulture, Planning, and Architecture. Explores existing and natural site conditions and their impact on influencing and shaping the built environment. Also examines key issues in the interrelationships and applications of these allied professions. NOTE: This course should not be taken by students who have successfully completed LARC 0841.

Repeatability: This course may not be repeated for additional credits.

LARC 1142. Design Communications. 3 Credit Hours.
This studio course explores the development of graphic techniques and introduces students to the landscape design process commonly used in landscape architecture and horticulture. Students explore spatial composition and develop a basic small scale design project using a variety of graphic skills.

Repeatability: This course may not be repeated for additional credits.

LARC 1244. Surveying. 3 Credit Hours.
Focuses on the fundamentals of plane surveying: basic measurement of distance, angle and elevation; use of basic surveying equipment: total station, levels and tapes, field notes; and basic computations: traverse closure and determination of areas.

Repeatability: This course may not be repeated for additional credits.

LARC 1544. Introduction to CAD. 3 Credit Hours.
An introduction to Computer Aided Drafting using AutoCAD. Focuses on learning the basic commands for drawing in two dimensions including: absolute and relative coordinates, working in layers, paper and model space, manipulation of text, and plotting.

Repeatability: This course may not be repeated for additional credits.

LARC 1982. Honors Projects. 1 to 3 Credit Hour.
For exceptional students interested in pursuing independent, in-depth study. Credits are based on the quantity and quality of work fulfilling the established course outline.

Cohort Restrictions: Must be enrolled in one of the following Cohorts: SCHONORS, UHONORS, UHONORSTR
Course Attributes: HO
Repeatability: This course may be repeated for additional credit.

LARC 2124. Design Process. 3 Credit Hours.
An introduction to the design process: inventory, analysis, program development, and conceptual design. Students apply the design process to spatial composition of small scale site design projects.

Repeatability: This course may not be repeated for additional credits
Pre-requisites: LARC 1142|Minimum Grade of D-|May not be taken concurrently.
LARC 2143. Landscape Architecture Design Studio I. 6 Credit Hours.
Development of the student's comprehension of important elements in the ecologically based landscape design process. Projects lead students through typical design processes that include inventory and analysis, case studies, evaluation of opportunities and constraints, development of conceptual ideas, and detailed landscape designs. The design process is applied to a variety of small scale, urban and suburban site design projects. Using a combination of computer, mechanical and free hand presentation techniques, studio work typically includes: site inventory and research and analysis; program development; concept alternatives; master planning; and detail design studies.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(LARC 1142|Minimum Grade of D-|May not be taken concurrently
AND LARC 2241|Minimum Grade of D-|May be taken concurrently).

LARC 2144. Landscape Architecture Design Studio II. 6 Credit Hours.
The development of mixed use and sustainable communities within the natural, social, cultural and economic context of development or redevelopment. Investigations of large-scale land use and community planning projects in the urban or rural context. Real world projects range from preparing community based revitalization plans and designs for inner city neighborhoods or redeveloping a rural or suburban area.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
LARC 2143|Minimum Grade of D-|May not be taken concurrently.

LARC 2241. Landscape Engineering I. 3 Credit Hours.
Emphasizes the basic concepts, ideas, and techniques that deal with the visual, functional, and ecological aspects of grading and landform manipulation.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Horticulture, Landscape Architecture
Degree Restrictions: Must be enrolled in one of the following Degrees: Bachelor of Science
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(LARC 1142|Minimum Grade of D-|May not be taken concurrently
AND LARC 1244|Minimum Grade of D-|May not be taken concurrently).

LARC 2242. Landscape Engineering II. 3 Credit Hours.
Introduction to the principles, processes, and techniques of site engineering for "soft" elements of landscape architecture. Based on the understanding and appreciation of ecological principles, functional requirements, and aesthetic considerations, students learn elements of design/engineering such as advanced grading, storm water management, and road alignment.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
LARC 2241|Minimum Grade of D-|May not be taken concurrently.

LARC 2457. American Traditions of Landscape Architecture. 3 Credit Hours.
Examination of ideas, needs, visions, and values that have shaped both the designed and the common landscapes of America from the colonial period until the early 1900s.
Repeatability: This course may not be repeated for additional credits.

LARC 2496. Landscape Traditions. 3 Credit Hours.
Presents a comprehensive overview of western civilization's efforts to create useful, beautiful, and symbolic spaces from ancient times until the modern day. NOTE: This is a writing intensive class. Students are urged to complete English 0802 or equivalent prior to registering for this class.
Course Attributes: WI
Repeatability: This course may not be repeated for additional credits.

LARC 2553. Landscape Architectural Computer Graphics. 3 Credit Hours.
Focuses on the use of digital media for visual presentation. Exposes students to image editing, publishing, and/or computer-aided design programs. Students learn how to create illustrative and technical drawings and/or portfolio work. NOTE: Course may be repeated once for a maximum of six credits.
Repeatability: This course may be repeated for additional credit.
Pre-requisites:
LARC 1544|Minimum Grade of D-|May not be taken concurrently.

LARC 2564. Advanced CAD. 3 Credit Hours.
Addresses more advanced concepts in two-dimensional AutoCAD and introduces CAD applications as three-dimensional tools in the generation of perspective drawings. Includes plotting in color and integration with other graphic applications.
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
LARC 1544|Minimum Grade of D-|May not be taken concurrently.
LARC 2754. Water Design in the City. 2 Credit Hours.
Cities throughout history have thrived or failed because of water. Every society’s ability to secure its water supply, clean stormwater, and address flooding issues impacts the quality of life of its citizens and the aesthetic dimension of the urban landscape. Learn about artistic strategies for dealing with urban stormwater and how cities throughout the U.S. and the world are redesigning their streets, parks, and buildings to more effectively manage urban water resources. Discover aspects of green infrastructure that address strategies for water filtration, conveyance, and storage. The City of Philadelphia is the laboratory for the case studies and for building an understanding of artful stormwater management strategies.
Repeatability: This course may not be repeated for additional credits.

LARC 2755. Summer Field Ecology. 3 Credit Hours.
Students learn to “read” the landscape through the exploration of the landscape provinces of the Delaware River Basin. Through visiting natural landscapes in each of the sub-regions, students see how the relationship of geology, soils, hydrology, plant communities, and land use history reveals an understanding of the visual characteristics, opportunities, and constraints of development inherent in the natural environment.
Repeatability: This course may not be repeated for additional credits.
Pre-requisites:
BOT 1112|Minimum Grade of D-|May not be taken concurrently.

LARC 2870. Special Topics. 1 to 3 Credit Hour.
Variable offerings from semester to semester of selected topics not part of the regular listing of courses. The topic can be in an area of specialization of a faculty member or an examination of a current development in the field. NOTE: Students may obtain a description of the current version at the department office and in the schedule of classes. This course may be repeated for credit.
Repeatability: This course may be repeated for additional credit.

LARC 2885. Internship. 1 Credit Hour.
This internship requires a minimum of one semester or 350 hours of employment with a landscape architecture firm, landscape contractor, or in a related field. During the internship, students should test concepts developed in class with real work experience. NOTE: Work should be completed between sophomore and junior years.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Landscape Architecture
Class Restrictions: May not be enrolled in one of the following: Freshman 0 to 29 Credits
Degree Restrictions: Must be enrolled in one of the following Degrees: Bachelor of Science
Repeatability: This course may be repeated for additional credit.

LARC 3145. Landscape Architecture Design Studio III. 6 Credit Hours.
Addresses issues pertinent to the design of parks and open space. Students analyze the site context in terms of open space and recreational opportunities, study and discuss comparable park systems and park designs and may work closely with community groups and elected officials in developing an appropriate design program. The goal is to apply an ecological design process to the design of a park appropriate for a particular neighborhood context.
Repeatability: This course may not be repeated for additional credits.
Pre-requisites:
LARC 2144|Minimum Grade of D-|May not be taken concurrently.

LARC 3146. Landscape Architecture Design Studio IV: Design/Build. 6 Credit Hours.
Provides individuals the opportunity to build and implement elements of their own design. Students prepare the necessary construction documentation and then actually construct their designs. Working with construction materials enables the student to learn the opportunities and limitations of these materials. This hands-on approach is vital to understanding the relationship between design and implementation processes.
Repeatability: This course may not be repeated for additional credits.
Pre-requisites:
(LARC 2242|Minimum Grade of D-|May not be taken concurrently
AND LARC 3145|Minimum Grade of D-|May not be taken concurrently).

LARC 3243. Landscape Engineering III. 3 Credit Hours.
Includes the principles, processes, and techniques of site engineering for the “hard” elements of landscape architecture such as walls, paving, steps, decks, etc. Based on the understanding and appreciation of ecological principles, functional requirements, and aesthetic considerations. Includes elements of design/engineering such as siting buildings, grading design of simple structures, understanding the nature of construction materials, and the preparation of working drawings.
Repeatability: This course may not be repeated for additional credits.
Pre-requisites:
LARC 2242|Minimum Grade of D-|May not be taken concurrently.

LARC 3345. Planting Design. 3 Credit Hours.
Considers the integration of plants into the design process and emphasizes scale, development density, natural site characteristics, natural plant associations, and individual plant characteristics. Planting design studies in a variety of contexts are included.
Repeatability: This course may not be repeated for additional credits.
Pre-requisites:
(HORT 1212|Minimum Grade of D-|May not be taken concurrently
AND LARC 1142|Minimum Grade of D-|May not be taken concurrently).
LARC 3644. Professional Practice. 3 Credit Hours.
Study of ethics, current business practices, contract documentation, bids, cost estimates, specifications, and interdisciplinary relationships. Seeks to teach the student how to set priorities, manage people, and execute landscape projects.

Field of Study Restrictions: Must be enrolled in one of the following Majors: Landscape Architecture

Class Restrictions: Must be enrolled in one of the following Classes: Junior 60 to 89 Credits, Senior 90 to 119 Credits, Senior/Fifth Year 120+ Credits

Degree Restrictions: Must be enrolled in one of the following Degrees: Bachelor of Science

Repeatability: This course may not be repeated for additional credits.

LARC 3665. Grant Writing. 3 Credit Hours.
Develop skills in researching grant funding possibilities, identifying and developing appropriate restoration projects with potential for grant funding, and writing grant proposals.

Repeatability: This course may not be repeated for additional credits.

LARC 3789. Landscape Restoration Workshop. 3 Credit Hours.
Students learn principles and practices of ecological restoration through hands-on experience. They visit restored landscapes, conduct field measurements in an old growth forest, and contribute to a restoration project on the Ambler Campus. An overnight camping trip is required. By the end of the course, students understand various technical strategies involved in restoration through drawing and writing their field observations, assessing proper techniques for restoration, and then implementing those techniques on a real site.

Repeatability: This course may not be repeated for additional credits.

LARC 3882. Independent Study. 1 to 3 Credit Hour.
Explorative study or research not met in any established course. Initiated by the student, the project must be sponsored by a faculty member with an approved agreement outlining the content and requirements, including readings, meetings, and papers. NOTE: Special authorization required for all students. Students must have the agreement of a faculty sponsor and must submit a formal proposal to this faculty member and Department before registering for the course.

Field of Study Restrictions: Must be enrolled in one of the following Majors: Landscape Architecture

Degree Restrictions: Must be enrolled in one of the following Degrees: Bachelor of Science

Repeatability: This course may be repeated for additional credit.

LARC 3886. Edinburgh Exchange Program. 1 to 18 Credit Hour.
This exchange program is available to undergraduate students at Temple University majoring in Landscape Architecture, Horticulture, Architecture, or Art and to undergraduate students enrolled in the five-year Landscape Architecture degree program in the School of Landscape Architecture at Edinburgh College of Art (ECA)/Heriot-Watt University, Scotland. One to two students participate each period (ECA students attend Temple for one semester and Temple students attend ECA for one quarter), and the exchange is on a one-student-for-one-student basis. NOTE: Temple students must apply by September 30 for Spring semester and March 31 for Fall semester. Temple exchange participants must follow the normal procedure for study abroad approvals and pre-approvals of courses. All students must be enrolled for at least 12 s.h. and must pay tuition and any applicable fees to their home institution.

Field of Study Restrictions: Must be enrolled in one of the following Majors: Landscape Architecture

Class Restrictions: Must be enrolled in one of the following Classes: Junior 60 to 89 Credits, Senior 90 to 119 Credits, Senior/Fifth Year 120+ Credits

Degree Restrictions: Must be enrolled in one of the following Degrees: Bachelor of Science

Repeatability: This course may be repeated for additional credit.

LARC 4147. Landscape Architecture Design Studio V: Fall Senior Studio. 6 Credit Hours.
Focuses on large-scale, complex planning projects dealing with growth management issues and an understanding of all phases of the planning process. The scope of the project includes analysis and evaluation of existing conditions, programming, and creation of conceptual plans, master plans, and detail designs.

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
LARC 3146 Minimum Grade of D- May not be taken concurrently.

LARC 4198. Landscape Architecture Design Studio VI: Spring Senior Studio. 6 Credit Hours.
The final senior studio deals with a variety of projects that may include landscape design projects involving fine arts, urban design, and town planning. Students are challenged to achieve a comprehensive understanding of the ideas, processes, and concepts. NOTE: Fulfills the capstone writing intensive requirement for the Landscape Architecture major.

Course Attributes: WI

Repeatability: This course may not be repeated for additional credits

Pre-requisites:
LARC 4147 Minimum Grade of D- May not be taken concurrently.

LARC 5551. Intermediate Computer Graphics. 3 Credit Hours.
Builds upon computer knowledge introduced in Design Communications/Introductory Design Studio I or equivalent. Introduction to Geographic Information System (GIS), intermediate level computer-aided design (CAD), and Photoshop applications to aid in developing and presenting designs. How to select the most useful software for a particular design problem.

Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate

Repeatability: This course may not be repeated for additional credits.
LARC 5564. Advanced CAD. 3 Credit Hours.
Addresses more advanced concepts in two-dimensional AutoCAD and introduces CAD applications as three-dimensional tools in the generation of perspective drawings. Includes plotting in color and integration with other graphic applications. NOTE: Prior to enrolling, students are expected to have introductory level skills in AutoCAD: basic commands for drawing in two dimensions including absolute and relative coordinates, working in layers, paper and model space, manipulation of text, and plotting.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

LARC 5665. Grant Writing. 3 Credit Hours.
Develop skills in researching grant funding possibilities, identifying and developing appropriate restoration projects with potential for grant funding, and writing grant proposals.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

LARC 8141. Design Communications/Introductory Design Studio I. 4 Credit Hours.
This studio course explores the development of graphic techniques and introduces students to the design process commonly used in landscape architecture and horticulture. Students develop a small-scale design project using a variety of graphic skills. Plans, sections, and elevations are drawn, and their functions are understood in design representation.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

LARC 8144. Landscape Design Studio II. 4 Credit Hours.
This course focuses on the development of mixed use and sustainable communities within the natural, social, cultural, and economic context of development or redevelopment. Large-scale land-use and community planning projects in the urban or rural context are investigated. Real world projects range from preparing community-based revitalization plans and designs for inner-city neighborhoods, to the creation of a new town development set in a bucolic landscape. Students learn to develop creative ideas through illustrative techniques. They engage in a complete design process, including analysis, conceptual, and finished design of an outdoor space.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
LARC 8141|Minimum Grade of C-|May not be taken concurrently.

LARC 8151. Woodland Design Studio. 4 Credit Hours.
Students apply the knowledge and methodologies presented in LARC 8751: Northeastern Woodland Ecosystems. Projects, varying in size and location, allow students to synthesize and advance their understanding of the ecosystem. Finished design projects are presented in graphic, written, and verbal forms and may be implemented in the field. Students develop the analytical and technical skills necessary for the inventory, analysis, programming, and design of a woodland landscape. Fieldwork, site inventory and analysis, identification of opportunities and constraints, and program development, as well as hand and computer drawing, are included.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Co-requisites: LARC 8351, LARC 8751

LARC 8152. Wetland/Riparian Design Studio. 4 Credit Hours.
This studio course complements material introduced in LARC 8752: Wetland Ecology. Students are required to draw on and implement knowledge about wetland ecosystems to develop a site design. Field visits, inventory, analysis, and monitoring are used to gain a thorough knowledge of the site for use as the basis for a design. Identification of opportunities and constraints, program development, and hand and computer drawing are extensively used. Students learn the critical thinking and artistic judgment necessary for developing a design for wetland habitat restoration.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.
Co-requisites: LARC 8752

LARC 8153. Public Lands Design Studio. 4 Credit Hours.
Material presented in LARC 8352: Policies of Public Design Seminar is addressed in this design studio, which focuses on a public project, such as a metropolitan park or regional or state conservation area. Students are required to understand and integrate the diverse values and views held by various stakeholders. In addition to typical design studio components such as site inventory and analysis, projects may require students to interview, confer, and present to public audiences to seek feedback and approval of designs. By the end of the course, students have attended and/or presented at public meetings and have developed a design for the public realm.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.
Co-requisites: LARC 8353

LARC 8241. Landscape Engineering I. 3 Credit Hours.
The course emphasis is on the basic concepts, ideas, and techniques that deal with the visual, functional, and ecological aspects of grading and landform manipulation. Students learn the technical skills necessary for grading a landscape to ensure proper drainage.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.
LARC 8242. Landscape Engineering II. 3 Credit Hours.
This course is an introduction to the principles, processes, and techniques of site engineering for the land forms of landscape architecture. Based on the understanding and appreciation of ecological principles, functional requirements, and aesthetic considerations, students learn elements of design/engineering such as advanced grading, storm water management, and road alignment. Different approaches to grading and water management are studied, and a set of grading plans is developed.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
LARC 8241|Minimum Grade of C-|May not be taken concurrently.

LARC 8351. Aesthetics of Ecological Design Seminar. 1 Credit Hour.
Students learn about the emerging aesthetic associated with ecological design. Form and psychological experience of design are presented through readings and discussion. Students understand the importance of peer-reviewed research as it relates to design and aesthetics.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Co-requisites: LARC 8151, LARC 8751
Repeatability: This course may not be repeated for additional credits.

LARC 8353. Policies of Public Design Seminar. 1 Credit Hour.
This course explores, through discussions and case studies, designing in the public sector. Students practice skills required for balancing dissimilar groups, value systems, and policies to ensure a successful project.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Co-requisites: LARC 8153
Repeatability: This course may not be repeated for additional credits.

LARC 8496. Landscape Traditions. 3 Credit Hours.
A comprehensive overview of Western civilization's efforts to create useful, beautiful, and symbolic spaces from ancient times until the modern day is presented. Students learn to critically assess landscapes through written research papers and oral presentations.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

LARC 8552. Research Design Methods. 3 Credit Hours.
Master of Landscape Architecture students gain an understanding of research design methods. Students conduct a research project and write a paper that summarizes their research study and findings.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

LARC 8644. Professional Practice. 3 Credit Hours.
This course focuses on the study of ethics, current business practices, contract documentation, bids, cost estimates, specifications, and interdisciplinary relationships. It seeks to teach the student how to set priorities, manage people, and execute landscape projects. Students gain an understanding of different professional avenues and opportunities and develop a case study/interview of a firm or public agency.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
(LARC 8141|Minimum Grade of C-|May not be taken concurrently
AND LARC 8241|Minimum Grade of C-|May not be taken concurrently).

LARC 8751. Northeastern Woodland Ecosystems. 3 Credit Hours.
The course presents terrestrial forest ecosystems and the biotic and abiotic factors that affect them. Students learn the components of forest ecosystems, including degradation factors and restoration concepts. Field trips allow students to observe and document a local forest ecosystem.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Co-requisites: LARC 8151, LARC 8351
Repeatability: This course may not be repeated for additional credits.

LARC 8752. Wetland Ecology. 3 Credit Hours.
The course introduces the ecology of traditional wetlands, such as salt marshes and bogs. Students gain an understanding of riparian edges and shorelines and the measures necessary for protecting and/or restoring them. Site visits are required.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Landscape Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Co-requisites: LARC 8152
Repeatability: This course may not be repeated for additional credits.

LARC 8753. Invasive Species Management. 3 Credit Hours.
Students learn to identify and assess eradication strategies for local invasive plant species. Traditional chemical/biological methods and non-traditional methods are discussed. By the end of the semester, students have developed an invasive species management plan for a local site.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.
LARC 8755. Native Plant Communities. 3 Credit Hours.
The course examines native and naturalized tree, shrub, and/or herbaceous plant community structure. Restoration processes are explored relevant to maintaining healthy plant communities. Discussion centers around growth, habit, and on-site propagation during restoration. Students learn to distinguish between native and non-native plant communities and vital characteristics associated with plant community health.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

LARC 8789. Landscape Restoration Workshop. 3 Credit Hours.
Students learn principles and practices of ecological restoration through hands-on experience. They visit restored landscapes, conduct field measurements in an old growth forest, and contribute to a restoration project on the Ambler Campus. An overnight camping trip is required. By the end of the course, students understand various technical strategies involved in restoration through drawing and writing their field observations, assessing proper techniques for restoration, and then implementing those techniques on a real site.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may not be repeated for additional credits.

LARC 8860. Topics in Landscape Architecture. 3 Credit Hours.
Variable offerings from semester to semester of selected topics not part of the regular listing of courses. The topic can be in an area of specialization of a faculty member or an examination of a current development in the field. NOTE: Students may obtain a description of the current version at the department office and in the schedule of classes. This course may be repeated for credit.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credits.

LARC 8870. Topics in Landscape Architecture. 1 to 3 Credit Hour.
Variable offerings from semester to semester of selected topics not part of the regular listing of courses. The topic can be in an area of specialization of a faculty member or an examination of a current development in the field. NOTE: Students may obtain a description of the current version at the department office and in the schedule of classes. This course may be repeated for credit.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.

LARC 8889. Restoration Monitoring Workshop. 3 Credit Hours.
This field course introduces methods for monitoring the process of a restoration project and the corrective actions needed to ensure a positive restoration. It includes strategies for pre- and post-installation monitoring. By the end of the semester, students understand issues associated with monitoring and maintaining the health of a restored ecosystem.
Field of Study Restrictions: Must be enrolled in one of the following Majors: Landscape Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Landscape Arch
Repeatability: This course may not be repeated for additional credits
Pre-requisites:
LARC 8753|Minimum Grade of C-|May not be taken concurrently.

LARC 9883. Directed Reading/Study. 1 to 3 Credit Hour.
Advanced reading/study tutorial is arranged between the student and a faculty member. NOTE: A written contract with the faculty member and approval from the Chair of the Department are required.
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Repeatability: This course may be repeated for additional credit.
LARC 9995. Capstone Restoration Design Project. 3 Credit Hours.

Students develop an independent restoration design project requiring synthesis of all previous coursework, including methodologies, seminars, ecological knowledge, and design projects. Every project must incorporate research in three ways: (1) accomplishing a literature review; (2) selecting and applying a methodology; and (3) advancing the knowledge base in ecological restoration. Research is used to both guide and test the design project. Students develop a comprehensive report. The capstone project concludes with a verbal and graphic presentation as well as a report summarizing the implications of the design, including strategies for monitoring and adjusting the restoration over time. Note: Students must obtain the instructor's approval of a project site and type no later than the first week of the semester, and must select a capstone committee comprised of three full-time instructors, one of which must be a member of the Department of Landscape Architecture and Horticulture.

Field of Study Restrictions: Must be enrolled in one of the following Majors: Landscape Architecture
Level Registration Restrictions: Must be enrolled in one of the following Levels: Graduate
Degree Restrictions: Must be enrolled in one of the following Degrees: Master of Landscape Arch

Repeatability: This course may be repeated for additional credit.
Pre-requisites:
(LARC 5551|Minimum Grade of C-|May not be taken concurrently
OR CRP 5524|Minimum Grade of C-|May not be taken concurrently)
AND ((LARC 8151|Minimum Grade of C-|May not be taken concurrently
AND LARC 8152|Minimum Grade of C-|May not be taken concurrently
AND LARC 8153|Minimum Grade of C-|May not be taken concurrently
AND LARC 8351|Minimum Grade of C-|May not be taken concurrently
AND LARC 8353|Minimum Grade of C-|May not be taken concurrently
AND LARC 8751|Minimum Grade of C-|May not be taken concurrently
AND LARC 8752|Minimum Grade of C-|May not be taken concurrently
AND LARC 8753|Minimum Grade of C-|May not be taken concurrently
AND LARC 8755|Minimum Grade of C-|May not be taken concurrently
AND LARC 8789|Minimum Grade of C-|May not be taken concurrently))
AND (GUS 8097|Minimum Grade of C-|May not be taken concurrently
OR CRP 8513|Minimum Grade of C-|May not be taken concurrently
OR LARC 8552|Minimum Grade of C-|May not be taken concurrently).