

# LARC Landscape Design

## **LARC 120. Introduction to Landscape Architecture. 3 Credits.** (3 Lec, 1 Lab)

PREREQUISITES: None CO-REQUISITES: None Introduction studio course in a sequence of studios into basic design process and skills used in landscape design, planning, and management. Concentration on navigating the design process while developing concepts, skills and methods of design in critical spatial analysis of various natural and human systems in a variety of exterior settings.

## **LARC 131. Landscape Architecture/History/Theory. 3 Credits.** (3 Lec)

Introduction to the history of landscape design from ancient civilizations to the present. The evolution of design theory as it relates to visual arts, material palettes, climate, ecology, cultural, and social issues. Current trends in landscape industry and the work of major designers will be studied.

## **LARC 201. Sustainable Landscape Studio I. 1-3 Credits.** (1 Lec, 2 Lab)

PREREQUISITES: HORT 120 or consent of instructor CO-REQUISITES: HORT 131 (<https://editcatalog.montana.edu/search/?P=HORT%20131>), HORT 225 (<https://editcatalog.montana.edu/search/?P=HORT%20225>) One of two studios in the sustainability series relating to theoretical concepts and practical applications of sustainable landscape design and land development at nested scales (site, neighborhood, city, region, and nation) with this one focusing on natural resource aspects. Course material provided through lectures, readings, and student projects.

## **LARC 202. Sustainable Landscape Studio II. 3 Credits.** (1 Lec, 2 Lab)

PREREQUISITES: CONCURRENT HORT 201 (<https://editcatalog.montana.edu/search/?P=HORT%20201>), CONCURRENT HORT 225 (<https://editcatalog.montana.edu/search/?P=HORT%20225>) Co-REQUISITES: HORT 226 One of two studios in the sustainability series relating to the theoretical concepts and practical applications of sustainable landscape design and land development, with this one focusing on cultural and social aspects. Course material provided through lectures, readings, and student projects.

## **LARC 225. Landscape Graphics I. 1-4 Credits.** (1 Lec, 3 Lab)

PREREQUISITES: ARCH 151RA (<https://editcatalog.montana.edu/search/?P=ARCH%20151RA>) Hand graphic communication methods, media, and equipment for landscape designers throughout the design process. Exploration and assessment of landscape representation for site analysis, schematic design, planting design, and design presentation.

## **LARC 226. Landscape Graphics II. 3 Credits.** (1 Lec, 2 Lab)

PREREQUISITES: HORT 225 (<https://editcatalog.montana.edu/search/?P=HORT%20225>) DDSN 131 (<https://editcatalog.montana.edu/search/?P=DDSN%20131>) Co-REQUISITES: CAN BE CONCURRENT WITH HORT 225 (<https://editcatalog.montana.edu/search/?P=HORT%20225>) Understanding of the opportunities offered by computer graphic techniques for landscape architectural drawings, including plans, elevations, axonometric, perspectives, and layouts. Includes instruction in major areas of computer applications for the different phases of a design project.

## **LARC 331. Planting Design. 1-3 Credits.** (1 Lec, 2 Lab)

PREREQUISITES: HORT 225 (<https://editcatalog.montana.edu/search/?P=HORT%20225>) and HORT 226, and HORT 231 (<https://editcatalog.montana.edu/search/?P=HORT%20231>) and HORT 232 (<https://editcatalog.montana.edu/search/?P=HORT%20232>) (may be taken as co-requisites). Focuses on planting design elements and principles, landscape trends, styles and theory; involves application of planting design to a variety of project types including engineering, architectural, climate control, habitat, sensory, and aesthetic uses. Emphasis on plant and environmental relationships. Construction documentation and cost estimating for planting landscape installation.

## **LARC 335. Site Development. 4 Credits.** (4 Lec)

PREREQUISITES: M 105Q (<https://editcatalog.montana.edu/search/?P=M%20105Q>) (formerly M 145Q), HORT 105 (<https://editcatalog.montana.edu/search/?P=HORT%20105>), CONCURRENT HORT 331 (<https://editcatalog.montana.edu/search/?P=HORT%20331>). Introductory site engineering course for landscape architects. Course explores concepts and methods related to grading and drainage. Topics include landform as design, site grading problem solving, storm water management principles and ecological design strategies, graphic communication for grading plans.

## **LARC 336. Landscape Construction. 2-4 Credits.** (2 Lec, 2 Lab)

PREREQUISITES: HORT 105 (<https://editcatalog.montana.edu/search/?P=HORT%20105>), CONCURRENT HORT 331 (<https://editcatalog.montana.edu/search/?P=HORT%20331>); HORT 335 (may be taken as a co-requisite). Understanding of construction materials used to create the built landscape. Design and production of computer-aided working drawings and models of structures and surfaces including paving, retaining walls, fences, decks and other landscape features. Production of landscape construction portfolio which details a complete site development project.

## **LARC 340. Site Design Studio I. 1-4 Credits.** (1 Lec, 3 Lab)

PREQUISITE: HORT 331 (<https://editcatalog.montana.edu/search/?P=HORT%20331>). Focuses on site planning and design of residential, commercial, and mixed-use projects. Explores site design processes including, design concept, development ordinances and project submittals. Introduction to theory and methods of sustainable community planning, such as, transit-oriented development, closed-loop neighborhoods, and eco-neighborhoods.

## **LARC 435. Landscape Planning. 4 Credits.** (1 Lec, 3 Lab)

PREREQUISITES: HORT 331 (<https://editcatalog.montana.edu/search/?P=HORT%20331>) CO-REQUISITES: HORT 335, HORT 336 Studio explores the challenges and opportunities for integrating biophysical characteristics and ecological assets with development. Topics include landscape ecology for land use planning, PROST (parks, recreation, open space and trails) planning, ArcGIS for landscape planning, and landscape performance. Studio projects focus on master planning of green infrastructure at community and regional scales.

## **LARC 440. Urban Planning and Design. 1-4 Credits.** (1 Lec, 3 Lab)

PREREQUISITES: HORT 331 (<https://editcatalog.montana.edu/search/?P=HORT%20331>) Focuses on the challenges and opportunities of developing vibrant, sustainable neighborhoods and regions. Topics include city form, street design, sustainable neighborhoods, and urban ecological design. Studio projects focus on neighborhood master planning, brownfields redevelopment, and public infrastructure design.