

2011-13 Cal Poly Catalog

Landscape Architecture Department

LA–LANDSCAPE ARCHITECTURE

LA 101 Introduction to Landscape Architecture (4)

Introduction to the profession of landscape architecture and orientation to the department curriculum and learning processes. 3 lectures, 1 discussion.

LA 130 Landscape Interpretation (4)

Introduction to the relationships between culture and art, architecture and the natural environment through the description and exploration of significant landscapes and related societies and cultures. 4 lectures.

LA 170 Principles of Design Communication (4)

Overview of design communications for landscape architects incorporating the principles, techniques, skills and tools used in design generation, exploration, review and implementation. 4 laboratories.

LA 202 Design Fundamentals I (4)

Introduction to the principles, methods and elements of two- and three-dimensional design in order to communicate intended concepts and meanings. Exploration of the basic design elements including composition, design process and the creation of spatial settings. 4 laboratories. Corequisite: LA 170.

LA 203 Design Fundamentals II (4)

Continuation of ideas introduced in LA 202 with the introduction of environmental and visual perception, including three-dimensional site design and landscape architectural design principles. Spatial design and sequencing of space with concern for human behavioral, environmental and natural site factors and generation of program, concept and design development. 4 laboratories. Prerequisite: LA 202, LA 243; concurrent: LA 241.

LA 204 Design Fundamentals III (4)

Continuation of ideas introduced in LA 202 and LA 203 with the introduction of the principles of design theory, landscape ecology and technical applications. Problems of increasing complexity incorporate critical and creative problem solving, the relationship of aesthetics, response to human needs and design for sustainable environments. 4 laboratories. Prerequisite: LA 203, LA 241; concurrent: LA 242.

LA 211 History of Landscape Architecture: Ancient Civilizations through Colonial America (4) GE C3

Exploration of the continuous alteration of the landscape through recorded time and examination of how humankind has influenced this change. The metaphor of “garden” provides understanding for agrarian regions, urban spaces, and vernacular landscapes of the world. 4 lectures. Fulfills GE C3.

LA 212 History of Modern and Contemporary Landscape Architecture (4) GE C3

Philosophies and ethics of important personalities in twentieth century landscape architecture. Design theories supporting these individuals’ projects and the nature of their practice, combined with the influential events in industry, the arts and sciences, politics, and society of this century. 4 lectures. Fulfills GE C3.

LA 213 Site and Terrain Analysis (4)

Introduction to various inventory and analysis methodologies, case study reviews, mapping and overlay techniques, environmental ethics and an overall understanding of the function and structure of the natural landscape. Visual assessment, synthesis techniques and relating mapped analytical data with design program analysis for use in site planning. 2 lectures, 2 laboratories. CRP majors only.

LA 220 Landscape Ecology: Concepts, Issues and Interrelationships (4)

Concepts, theories and techniques related to landscape analysis, ecology, planning and design with an emphasis on landscape assessment, sustainability, land health, environmental protection and restoration, and natural resource management. 4 lectures.

LA 221 California Plants and Plant Communities (4)

Concepts, theories and techniques related to landscape analysis, ecology, planning and design with an emphasis on landscape assessment, sustainability, land health, environmental protection and restoration, and natural resource management. Introduction to the horticultural characteristics and landscape design potential of California native plants, California plant communities and associated vernacular plants. Includes experience in field identification, basic planting design, installation techniques and maintenance requirements. Required field trips. ~~4 lectures, 2 laboratories~~. Prerequisite: BIO 114 or BOT 121 or consent of instructor. *Corrected 9/6/11. Corrected 2/22/12.*

LA 240 Additional Landscape Architecture Laboratory (1–3)

Total credit limited to 6 units, with a maximum of 3 units per quarter. 1–3 laboratories.

LA 241 Site Engineering Techniques and Applications (4)

Introduction and application of the techniques, methods, principles and criteria for site engineering and landform design. Includes an introduction to soil science, survey methods, and experiences in the principles, procedures and application of site grading and drainage for landscape architecture. 4 laboratories. Prerequisite: LA 202, LA 243; corequisite: MATH 118; concurrent: LA 203.

LA 242 Implementation Strategies (4)

Introduction and application of the methods, principles and criteria for landscape implementation. Encompasses fundamental design and technical decisions common to landscape architectural design and construction projects including the development of concept, design development and working drawings, and construction management process. 3 lectures, 1 activity. Prerequisite: LA 203, LA 241; concurrent: LA 204.

LA 243 Materials and Techniques of Landscape Construction (4)

Introduction to the properties, uses and inherent qualities of the fundamental materials of landscape architectural concerns and associated construction techniques and processes. Materials and techniques explored as a source of design ideas, form and expression in landscape architecture. 3 lectures, 1 activity. Corequisite: LA 170; concurrent: LA 202.

LA 270 Selected Topics (1–4)

Directed group study of selected topics. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1 to 4 lectures. Prerequisite: Open to undergraduate students and consent of instructor.

LA 317 The World of Spatial Data and Geographic Information Technology (4) GE Area F

Basic foundation for understanding the world through geographic information and the tools available to utilize spatial data. Application of Geographic Information Systems (GIS) and related technologies, including their scientific basis of operation. 3 lectures, 1 activity. Prerequisite: Completion of GE Area B2. *Crosslisted as GEOG/LA/NR 317.* Fulfills GE Area F.

LA 318 Applications in GIS (3)

ARC/INFO and ArcView Geographic Information System (GIS) computer software to explore environmental, natural resource, social and economic issues using spatial data. Develop and apply data base and software management competencies. 1 lecture, 2 laboratories. Prerequisite: Junior standing or consent of instructor. *Crosslisted as LA/NR 318.*

LA 320 Design Theory for Landscape Architects (4)

Complements the material and knowledge presented in the history of landscape architecture, architecture and art courses. Design theory and associated concepts as they are related to landscape architecture. Literature research and analysis of completed design projects. The artists/designers, materials and overall expressions of work are related to the social and economic issues of the time as well as their associations with the other arts and sciences. 4 lectures. Prerequisite: LA 211, LA 212, or consent of instructor.

LA 330 Cultural Landscapes: People, Places and Ethical Decisions (4)

Investigation of the complexities and interrelatedness of culture, environment and ethical decisions. Interpretation of personal and cultural values and ethics in terms of decisions made and behaviors and actions expressed in the built land-scape. 4 lectures. Prerequisite: LA 211, LA 212.

LA 349 Advanced Planting Design (4)

Advanced examination of the theories and applied principles of planting design. Emphasis on connections between art and science in the design of parks, gardens and other landscapes. Case studies and field trips. 2 lectures, 2 activities. Prerequisite: EHS 231, EHS 232 and EHS 381 or LA 221.

LA 363 Recreation and Open Space Planning and Design (4)

Planning and design methods for meeting leisure requirements. Issues of recreation and society. Relationship of recreation and open spaces, assessment of needs and supply of resources. 3 lectures, 1 activity. Prerequisite: Must have completed minimum of one 200-level course in planning, design or recreation and third-year standing or consent of instructor.

LA 370 Professional Practice (4)

Issues related to the practice of landscape architecture incorporating processes, procedures and outcomes of professional practice. Topics include professional ethics, business and legal aspects of the profession, relationships to the client and society, personal goal setting, resume and portfolio preparation. 4 lectures. Prerequisite: LA 204.

LA 371 Internship (3) (CR/NC)

Involvement in a work setting related to landscape architecture. Thirty hours work experience per unit of credit. Credit/No Credit grading only. Prerequisite: Third year standing in Landscape Architecture.

LA 400 Special Problems for Advanced Undergraduates (1-4)

Individual investigation, research, studies, or surveys of selected problems. Total credit limited to 8 units, with a maximum of 4 units per quarter. Prerequisite: Consent of instructor.

LA 401 Research Project (2)

Research methods in landscape architecture and proposal writing techniques. Students prepare proposal and strategy for fifth year study in area of concentration. 2 seminars. Prerequisite: Completion of four design focus studios (16 units from LA 402 – LA 405).

LA 402 Design Theory and Exploration Focus Studio (4)

Exploration and application of design theory, exploratory design process and form exploration to design and planning projects. Emphasis on incorporation of inquiry techniques based on the synthesis of interdisciplinary frameworks of art and design theory with historical and cultural issues. Total credit limited to 12 units. 4 laboratories. Prerequisite: LA 204, LA 211, LA 212 or consent of instructor; prerequisite or concurrent: LA 320; concurrent: Integrated Learning Course (ILC) of student's option.

LA 403 Natural Environments Design Focus Studio (4)

Assessment, exploration and integration of landscape ecology, sustainability and environmental planning to design and planning projects. Emphasis on interpretation and application of environmental and ecological issues at a range of design scales. Total credit limited to 12 units. 4 laboratories. Prerequisite: LA 204, LA 211, LA 212 or consent of instructor; corequisite: LA 220; concurrent: Integrated Learning Course (ILC) of student's option.

LA 404 Cultural Environments Design Focus Studio (4)

Assessment, exploration and interpretation of cultural values, issues and landscapes to design and planning projects. Emphasis on observation and inquiry of diverse cultural settings, differences in cultural values and personal ethics in the design process. Total credit limited to 12 units. 4 laboratories. Prerequisite: LA 204, LA 211, LA 212 or consent of instructor; concurrent: Integrated Learning Course (ILC) of student's option.

LA 405 Project Design and Implementation Focus Studio (4)

Development, exploration and integration of project design and implementation strategies to design and planning projects. Emphasis on creative and exploratory problem solving, spatial design, project resolution, and graphic communication. Total credit limited to 12 units. 4 laboratories. Prerequisite: LA 204, LA 243, LA 242, LA 241 or consent of instructor; concurrent: Integrated Learning Course (ILC) of student's option.

LA 411 Regional Landscape History (4)

Developmental history of the landscape in the western region with specific focus on the Basin and Range region and California. One or more field trips

required. 4 lectures. Prerequisite: Fourth year standing or consent of instructor.

LA 431 CAD and Digital Media Communications (ILC) (4)

Integrated Learning Course (ILC) to assist integration and application of computer-aided drafting (CAD) skills in coursework, project planning and design studio courses. Focus on CAD skills and integration of digital media. Total credit limited to 12 units. 4 activities. Prerequisite: LA 170, LA 204 or consent of instructor.

LA 432 Landscape Ecology Applications (ILC) (4)

Integrated Learning Course (ILC) to assist integration and application of landscape ecology principles in project planning and design studio courses. Focus on understanding and developing a framework for ecological planning and design to anticipate consequences of planning and design decisions. Total credit limited to 12 units. 4 activities. Prerequisite: LA 221 or consent of instructor; corequisite: LA 220; concurrent: Design Focus Studio of student's option.

LA 433 Cultural Environments (ILC) (4)

Integrated Learning Course (ILC) to assist integration and application of culture, environment and personal ethics in coursework, project planning and design studio courses. Focus on skills, distinctions and integration of analyzing the cultural landscape, understanding diverse cultural values and assessing personal ethics. Total credit limited to 12 units. 4 activities. Prerequisite: LA 211 or consent of instructor; concurrent: Design Focus Studio of student's option.

LA 434 Project Design and Implementation (ILC) (4)

Integrated Learning Course (ILC) to assist integration and application of project design principles and implementation strategies in project planning and design studio courses. Focus on skills, techniques and decisions of the design, documentation and construction processes. Total credit limited to 12 units. 4 activities. Prerequisite: LA 241, LA 242, LA 243 or consent of instructor; concurrent: Design Focus Studio of student's option.

LA 435 Professional Practice (ILC) (4)

Integrated Learning Course (ILC) to assist integration and application of professional practice principles and techniques in planning and design studio and internship courses. Focus on achieving a high level of professional quality, ethical concern, and legal responsibility in project work. Total credit limited to 12 units. 4 activities. Concurrent: Design Focus Studio of student's option.

LA 436 Traditional and Digital Media Communications (ILC) (4)

Integrated Learning Course (ILC) to assist integration and application of graphic communication and presentation skills in coursework, project planning and design studio courses. Focus on skills, distinctions and integration of traditional and digital media explorations. Total credit limited to 12 units. 4 activities. Prerequisite: LA 170, LA 202, LA 203, LA 204 or consent of instructor; concurrent: Design Focus Studio of student's option.

LA 437 3D Digital Design Communications (ILC) (4)

Integrated Learning Course (ILC) to assist integration and application of 3D digital graphic communication and presentation skills in coursework, project planning and design studio courses. Focus on skills and integration of three-dimensional digital media explorations. Total credit limited to 12 units. 4 activities. Prerequisite: LA 170, LA 204 or consent of instructor; concurrent: Design Focus Studio of student's option.

LA 438 GIS Application to Design Projects (ILC) (4)

Integrated Learning Course (ILC) to assist integration and application of geographic information systems (GIS) and spatial information into focus design studio courses. Total credit limited to 12 units. 4 activities. Corequisite: LA 220; concurrent: Design Focus Studio of student's option.

LA 461 Senior Design Project Focus Studio (4)

Comprehensive landscape architectural design and research project showing professional level competency in the integration of design theory, landscape architectural principles and project resolution. Emphasis on creative resolutions, organization and communication skills and technical abilities in program generation, design process, design and research. Total credit limited to 8 units. 4 laboratories. Prerequisite: Completion of Design Focus Sequence (20 units from LA 402-LA 405).

LA 470 Selected Advanced Topics (1–4)

Directed group study of selected topics for advanced students. Open to undergraduate and graduate students. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1–4 lectures. Prerequisite: Consent of instructor.

LA 471 Selected Advanced Laboratory (1–4)

Directed group laboratory study of selected topics for advanced students. Open to undergraduate and graduate students. The Schedule of Classes will list title selected. Total credit limited to 8 units. 1–4 laboratories. Prerequisite: Consent of instructor.

LA 481 Visual Resource Management Methods (4)

Investigation and application of the major visual resource management methods relevant to landscape architecture. Theoretical basis for visual resource assessment, the different assessment techniques, and the process of translating assessment results into visual resource management techniques. 2 lectures, 2 activities. Prerequisite: Fourth-year standing or graduate standing, or consent of instructor.

LA 482 Evaluating Social and Behavioral Factors for Open Space Design (4)

User oriented approach to open space design. Interview and survey techniques, behavioral trace mapping and systematic observation, post occupancy evaluation and similar methods are used to generate user input and feedback in the design process. Understanding the behavioral implications of designed environments. 2 lectures, 2 activities. Prerequisite: Fourth-year or graduate standing or consent of instructor.

LA 483 Special Studies in Landscape Architecture (1–12)

Special issues and problems through research, field trips, seminars and other forms of investigation and involvement. Course requirements are determined prior to each individual project through a contractual agreement between students and department. Departmental Off Campus Study Program guidelines apply. Total credit limited to 36 units. 1–12 activities. Prerequisite: Fourth- or fifth-year standing, or consent of instructor.

LA 485 Cooperative Education Experience (6) (CR/NC)

Part-time work experience in business, industry, government, and other areas of student career interest. Positions are paid and usually require relocation and registration in course for two consecutive quarters. Formal report and evaluation by work supervisor required. Major credit limited to 6 units; total credit limited to 18 units. Credit/No Credit grading only. Prerequisite: Junior standing and consent of instructor.

LA 495 Cooperative Education Experience (12) (CR/NC)

Full-time work experience in business, industry, government, and other areas of student career interest. Positions are paid and usually require relocation and registration in course for two consecutive quarters. Formal report and evaluation by work supervisor required. Major credit limited to 12 units; total credit limited to 24 units. Credit/No Credit grading only. Prerequisite: Junior standing and consent of instructor.

LA 551 Regional Landscape Assessment I (4)

Definition, research and filing of data covering the biological, cultural and physical resources of a specific region. Concepts of regionalism, land planning, reclamation and preservation are integral to the course. Utilization of mainframe and microcomputer facilities and software. 4 laboratories. Prerequisite: Graduate standing or consent of instructor.

LA 552 Regional Landscape Assessment II (4)

Application of data manipulation techniques in order to model both impacts on natural systems and land development potentials. Use of planning strategies to predict outcomes resulting from the land use decision process. Utilization of mainframe and microcomputer facilities and software. 4 laboratories. Prerequisite: LA 551 and graduate standing.

LA 585 Cooperative Education Experience (6) (CR/NC)

Advanced study analysis and part-time work experience in student's career field; current innovations, practices, and problems in administration, supervision, and organization of business, industry, and government. Must have demonstrated ability to do independent work and research in career field. Total credit limited to 9 units. Credit/No Credit grading only. Prerequisite: Graduate standing and consent of instructor.

LA 595 Cooperative Education Experience (12) (CR/NC)

Advanced study analysis and full-time work experience in student's career field; current innovations, practices, and problems in administration, supervision, and organization of business, industry, and government. Must have demonstrated ability to do independent work and research in career field. Credit/No Credit grading only. Prerequisite: Graduate standing and consent of instructor.