

331. Design Implementation II

Winter. 4(1-6) 330, 343.

Continuation of 330 with the further study of contract documents including bidding procedures, the preparation of a set of construction drawings for the development of a small site, specifications and the construction process.

332. Design Implementation III

(432.) Spring. 3(3-2) 331, 344.

Construction materials, their proper use, job supervision and office practice.

343. Environmental Design Concepts

Fall. 4(1-6) 242, 255, HRT 212.

Basic concepts in landscape design emphasizing the design process and conceptual thinking toward improving the quality of man's physical environment.

344. Site Design for Housing

Winter. 4(1-6) 343.

Low, medium and high-density developments for human shelter including the design of subdivisions and related facilities, and developments for apartments, townhouses, condominiums, and mass-produced units.

345. Site Planning for Recreational Facilities

Spring. 4(1-6) 331, 344.

Techniques of analysis and design for outdoor recreational facilities such as playgrounds, parks and parkways, golf courses, marinas and facilities for athletics. Field trips required.

402. History of Environmental Development

(202.) Winter, Spring. 4(3-0)

Analysis of man's attempts to organize and design outdoor space. Emphasis on major influences, people and historical landscape styles and movements.

421. Bibliographic Research and Methods in Environmental Design

Fall. 4(2-2) Senior majors.

Research into published information in environmental design; abstraction of data; synthesis into oral and written presentations.

430. Special Projects in Environmental Design

Summer. 5(2-6) 318, 332, 345.

The improvement of man's physical environment as taught by a sequence of highly regarded professional practitioners and educators in the environmental design professions.

440. Graphic Communication

Fall. 3(0-6) Bachelor of Science in Landscape Architecture.

Development and perfection of individual delineation techniques as applied to landscape design projects.

445. Design Theory and Implementation—Natural Materials

Fall. 3(0-6) Bachelor of Science in Landscape Architecture.

Designs, working drawings and specifications related to the use of vegetation and other natural materials on various projects in a wide range of scales.

446. Site Planning for Urban Areas

Fall. 5(2-6) 318, 332, 345.

Lectures, readings, and laboratory projects concerning site planning for public and quasi-public urban buildings and spaces, including central business districts, malls, plazas, and college and university campuses. Field trips required.

447. Advanced Landscape Design

Winter. 5(2-6) 446.

Lectures, readings and laboratory assignments on a variety of landscape design projects. A personal biographical dossier and portfolio, based on previous landscape architectural courses, is required from each student as collateral.

448. Terminal Project in Design

Spring. 5(2-6) 332, 447.

Completion of a design project, selected by the student and approved by the School, with report, simulating professional office procedures and demonstrating proficiency in beginning levels of professional landscape architecture. This involves the preparation of a set of drawings including site design, planting design, construction, rendering and sketching.

450. Architectural Design

Winter. 4(0-6) Bachelor of Science in Landscape Architecture.

Lectures, discussions, assigned readings, written reports, and studio projects in architectural design, emphasizing complex architectural planning, form structure and site relationships.

455. History of Landscape Design

Winter. 3(3-0) Bachelor of Science in Landscape Architecture.

Significant movements, personalities, and projects in landscape design, from ancient to contemporary times, with emphasis on the development of the current practice of landscape architecture.

460. Research Methods

Winter. 3(3-0) Bachelor of Science in Landscape Architecture.

Review of traditional and proven research methods in the physical and social sciences utilizing representative case studies as applied to environmental considerations.

465. Seminar

Spring. 3(3-0) Bachelor of Science in Landscape Architecture.

Professional philosophy of landscape architecture; the social responsibility of the landscape architect; administrative processes and methods essential for effective professional practice.

470. Design Theory and Implementation—Construction

Spring. 3(3-0) Bachelor of Science in Landscape Architecture.

Comprehensive site projects involving construction plans, working drawings, contract documents, cost estimates and office practice.

475. Comprehensive Design

Fall, Winter, Spring. 4(0-8) Must be repeated for a total of twelve credits. Bachelor of Science in Landscape Architecture.

Studio projects and discussions emphasizing the synthesis of landscape architectural principles and related disciplines as applied to a wide range of design scales and sites in both urban and regional contexts.

485. Professional Contact

Summer. 4(0-8) Bachelor of Science in Landscape Architecture.

Similar to 475, but taught by a sequence of highly regarded professional practitioners and educators in the environmental design professions.

490. Special Problems

Fall, Winter, Spring, Summer. 2 to 5 credits. May re-enroll for a maximum of 8 credits. Approval of school.

Investigation, for advanced undergraduate students in landscape architecture, developed from special interest areas.

801. Graduate Landscape Architecture I

Fall, Winter, Spring, Summer. 5 to 12 credits.

A series of complex problems of variable subject matter adjusted to the interests and needs of each individual student and designed to emphasize the various phases of landscape architecture such as plant materials and planting design, drafting and delineation, surveying and construction, contracts, specifications and reports, architecture and city planning and landscape design.

802. Graduate Landscape Architecture II

Fall, Winter, Spring, Summer. 5 to 12 credits. 801.

Continuation of 801.

803. Graduate Landscape Architecture III

Fall, Winter, Spring, Summer. 5 to 12 credits. 802.

Continuation of 802.

804. Comprehensive Problem

Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 15 credits. 803.

Development of a terminal, creative project of subject matter selected by the student and approved by the department, involving the various phases of landscape architecture and submitted to the faculty as evidence of his mastery of the principles of his profession.

**VETERINARY MEDICINE V M
(College of)**

500. Veterinary Medical Communication

Fall, Spring. 1(1-0) Admission to the professional veterinary program.

Seminars on professional speaking and writing research design and data interpretation, and client relations.

600. Veterinary Medical History, Ethics, and Jurisprudence

Fall, Spring. 1(1-0) Admission to the veterinary professional program.

Seminars on historical background, ethical principles, and legal responsibilities of the veterinary medical profession.

ZOOLOGY ZOL

**College of Human Medicine
College of Natural Science
College of Osteopathic Medicine**

200. Resource Ecology and Man

For course description, see Interdisciplinary Courses.

204. Natural History of Birds

Fall. 4(2-6) Three terms of natural science; not open to zoology majors.

Identification of Michigan birds in field and laboratory, including life histories, habits, and consideration of their economics, aesthetic and recreational value.