

LAND 614 Landscape Architectural Construction

Spring 2008

Instructor

Dr. Ming-Han Li, ASLA, R.L.A., P.E.
A336 Langford Building
845-7571 (LAUP) or 845-6211 (TTI); minghan@tamu.edu
Office hours: to be determined

Course Time and Location

TR 2:20-4:50; Langford A300

Course Description

This is the second graduate landscape construction course in the MLA curriculum. This course will introduce the construction document preparation, working drawings, project layout and design, and theory and principles of irrigation and lighting design. Students are expected to bring to this course a working knowledge of the design process, visual design elements and principles, basic hydraulics, and a basic knowledge of the natural systems that impact design as well as knowledge of grading and drainage. Topics of the course include:

- Landscape construction document (working drawings),
- Construction procedure of concrete, masonry and wood,
- Drafting, lettering and clarity of details,
- Landscape irrigation and water features, and
- Landscape lighting.

Learning Objectives

After completing this course, students will possess:

- Knowledge of the principles, and skill of preparing and assembling construction drawings by completing a full construction package
- Knowledge of the principles of irrigation design, and skill of analyzing the need of supplemental irrigation by completing design exercises and passing exams
- Knowledge of the equipment and principles of designing water features by lectures and demonstrations
- Knowledge of the principles of lighting design by lectures
- Ability to complete a typical landscape construction working drawing package
- Ability to apply design and planning principles of landscape irrigation

Required Textbook

Landscape Architecture Construction, 3rd Edition. by Harlow C. Landphair and Fred Klatt, Prentice-Hall, New York (1998)

Suggested Reference

Landscape Architectural Graphic Standards. by Leonard J. Hopper, Wiley & Sons, Inc., New York (2007)

Simplified Irrigation Design, 2nd Edition. by Pete Melby, John Wiley & Sons, Inc., New York (1995)

Prerequisite: LAND 612

Course Logistics

Your attendance is required for the full class period. Lateness, early leave and absence will be subjected to a deduction of your final grade. You are required to bring a scientific calculator to the class. You are also encouraged to bring your personal notebook PC. Course materials such as handouts, homework, exercise, in-class assignments and supplemental materials will be stored in the WebCT Vista or “class folder” of the College of Architecture. You must check on new releases constantly and download them for use.

Evaluation

Homework	20%
Exercise	20%
In-class assignments	10%
Semester project	15%
Construction drawing package	15%
Exams (including quizzes)	20%

Grading Policy

A = 90%+, B = 80 to 89.9, C = 70 to 79.9, D = 60 to 69.9, F = below 60.

Homework – Homework assignments should be neatly finished. All calculation processes and units should be clearly written. Showing answers without any calculation process will receive zero unless it is a short answer. Poorly written and illegible submissions will not be accepted. The due date for each homework will be indicated when it is assigned. Late homework will be graded for half credit. Any homework not turned in two weeks after the due date may be turned in for evaluation, but will receive a grade of zero.

Exercise – Exercise assignments are graphical vignettes typically issued in the AutoCAD drawing format. You are required to use AutoCAD to draft, draw and plot your solutions. For individuals who are not familiar with AutoCAD, you may turn in manually drafted solutions for the first two weeks of this semester. Starting in the third week, a 5% deduction of grade for manual drafting will be applied. Such a deduction scale will increase 5% every week. For example, in the 10th week the deduction will reach 40%.

In-class assignments – Portions of the scheduled class meeting time will be used for in-class assignments. These assignments will be designed to illustrate concepts and problem solving techniques. In-class assignments may be worked individually or in groups and will be due at the end of the class when assigned. In-class assignment may not be made up.

Pin-ups – During the semester, the instructors may select some details or plans designed and drawn by students for pin-up discussion. Grades of pin-up will be grouped under “in-class assignments.”

Oral presentation (semester project) – Each student is required to make a 15-minute PowerPoint presentation on one of the subjects covered in the course material or a related topic. A list of subject areas will be distributed at the beginning of the semester. In advance of the presentation, the student will supply the instructor with a final outline of their presentation. The final PowerPoint file must be submitted by the morning of the day before the presentation. Even earlier is preferable since that will give you more time to make suggested adjustments to the presentation.

The student is also required to write a three page (1500 words) summary on that topic. The summary shall be submitted on the presentation day.

Quizzes – Quiz are used to ensure that the students study assigned materials. Depend upon the class participation throughout the semester, quizzes may be given occasionally. All quizzes will be closed-book, closed-notes and should require approximately 20-30 minutes of class time.

Construction drawing package – At the end of the semester, you are required to submit a construction drawing package that includes most of the plans and details you have worked on as exercises. The submission must be plotted using AutoCAD. Manually drafted submissions will not be accepted, and a grade of zero will be assigned.

Exams – Exams will focus on the application of technical concepts. Exams will be limited to one class period. The Final Exam will be held on the university scheduled date. No other date will be specially arranged for any individuals.

Extenuating circumstances – If, at any time, extenuating circumstances interfere with your ability to meet class requirements, students are encouraged to contact Dr. Li prior to passage of a due date, giving of a quiz or exam, etc. The ability to make up missed work and the terms of any allowed make-up will be determined on a case-by-case basis.

Scholastic Honesty

Aggies do not lie, cheat or steal nor do they tolerate those who do.

The Aggie Code of Honor states that the students at Texas A&M University should value honesty and person integrity. Therefore, it is the responsibility of students and faculty members to help maintain scholastic integrity at the University by refusing to participate in or tolerate scholastic dishonesty.

Students are referred to the Honor Council Rules and Procedures that may be found at the website: <http://www.tamu.edu/aggiehonor>.

ADA Policy

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for people with disabilities. Among other things, this legislation requires that all students be guaranteed a learning environment that provides reasonable accommodation for any disability they may have. If you believe you have a disability

Texas A&M University
Department of Landscape Architecture and Urban Planning

requiring an accommodation, please talk with the instructors if you feel comfortable with that or contact the Department of Student Life, Services for Students with Disabilities in Room 126 of the Koldus Building, telephone 845-1637.