

**Houston Community College
Horticulture Department**

**HALT 1322: Landscape Design
Credits: 3 (2 Lecture, 2 Lab)
Fall 2012 Syllabus**

Instructor Information

Richard Haddock

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Course Description

This is Part I of a two semester course. There is no prerequisite for this course; however, this course is required prior to taking Part II. This introductory semester is designed to provide the student with basic skills to become minimally proficient in the use of AutoCAD 2012 using landscape elements as a focus for design efforts.

Schedule Description: A beginning study of principles and elements of landscape design. Topics include: the landscape design process; site inventory, site analysis, schematic design, design development, balance and scale, style, form etc. Students will be learning the computer program, AutoCAD, and applying the principles of design to a landscape design project. This course should be followed with Advanced Landscape Design next semester.

Course Goals

During the semester, the student will accomplish the following objectives:

1. Become familiar with the Windows Operating System and the windows file management system
2. Become familiar with Auto CAD 2012 concepts and file management
3. Become familiar with and be able to utilize basic AutoCAD 2012 drawing lay-out and coordinate systems
4. Become familiar with basic hand drafting techniques suitable for creating a landscape design planting plan document.
5. Become familiar with project related documents to include Plats, Engineering and Architectural formats and signatures
6. Reproduce, in AutoCAD 2010 format, various exercises to increase your knowledge of landscape design and AutoCAD skills
7. Complete semester design projects utilizing drafting and or AutoCAD 2010 instruction offered during the semester

Prerequisites

None

Statement of Foundation Skills

In 1988, The American Society for training and development conducted a study with the U.S. Department of Labor to identify seven skills that employers most want to see in entry-level employees. These skills are motivation to learn, basic skills, communication, teamwork, critical thinking, career development and leadership.

HCCS is committed to preparing every student with the knowledge and skills needed to succeed in today's dynamic work environment. Towards this end, the following skills will be included in this course. The following are examples of how these skills will be incorporated in this course.

SCANS SKILLS

- **Manage time**-Student will demonstrate the ability to complete design project on schedule and understand the importance of deadlines
- **Lead work teams**-Students will be responsible for team work with co-students in the lab.

Text

Form Concept to Form in Landscape Design, by Grant W. Reid FASLA.

Handouts from the instructor

Materials Required for Lab

12" Roll of Sketch Tracing Paper

(1) Engineering Scale Bar

(1) Architect Scale Bar

(1) Circle Template

(1) 45 degree triangle

(1) 30-60 degree triangle

(1) 24" T-Square

Various Drafting Utensils (Pens - 0.1, 0.3, 0.5 & 0.8mm, (1) Technical Pencil)

Flash Drive

Lab Requirements

There is a lab required for each class meeting where student will have an opportunity for hands-on experience.

Students and Disabilities

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the Disability Services Office at the respective college at the beginning of each semester. Faculty is authorized to provide only the accommodations requested by the Disability Support Services Office.

Academic Honesty

Academic dishonesty (cheating) will not be tolerated. If an individual is caught, punishment will be enforced according to the Student Policies Handbook. Copying or modifying other people's designs and passing them off as your own is considered plagiarism and will result in a failing grade for that project. However, it is legitimate to get design inspiration and graphic ideas from books or other sources as long as your product shows significant adaptation and original expression. Sharing ideas is expected in projects. Helping others with graphic techniques is also encouraged and is in no way considered dishonest.

Attendance and Withdrawal Policies

Students are expected to attend classes regularly. Class attendance is checked daily by instructors. Although it is the responsibility of the student to drop a course for non-attendance, the instructor has the authority to drop a student for excessive absences. A student may be dropped from a course for excessive absences after the student has accumulated absences in excess of 12.5% of the hours of instruction (including lecture and laboratory time).

State Mandate: Failure of a student to withdraw officially from a class will result in an F.

Grading Criteria

1st Half of the Semester

Introduction to AutoCAD/Landscape Design:	
Exercises	20%
Attendance	30%
Understanding of Concepts	20%
Mid-term Project	20%
Quizzes	10%

2nd Half of the Semester

AutoCAD/Landscape Design Concept Development:	
Exercises	20%
Attendance	30%
Demonstration of Concept Applications	20%
Final Project	20%
Quizzes	10%

Evaluation

Percentage	100-90%	89.9%-80%	79.9-70%	69.9-60%	59% & below
Grade	A	B	C	D	F

Course Requirements and Grading Policy

The students will be tested several times through the semester. A midterm and final project will be given. Quizzes will be given periodically through the semester. The final project will be completed by the student and turned in at the end of the semester.

Testing

The assignments, projects and quizzes cover material administered in class and the reading assignments.

Make-up Policy

If the student meets college policy requirements, make-up quizzes and assignments are discussed with the student and the instructor and scheduled per college policy. It is necessary to make arrangements with the instructor to schedule any make-up quiz or assignment. If you do not call or come by to see me before the test/due date, a grade of 0 will be recorded.

Projects, Assignments, Portfolios, Service Learning, Internships, etc.

Various projects may be assigned by instructor.

Course Content

Week	Topic
1	General introduction to the course and course materials, objectives, grading system, goals, ambitions, and expectations of all participants. Introduction to related industries and associated profession. Introduction to Windows: a. Role of computers in the workplace b. Windows Operating System c. File management systems d. Commonly Used commands and tasks e. Student exercises and familiarization exercises Introduction to AutoCAD f. Familiarization with the screen components and CAD interface g. Familiarization with toolbars, pull down menus, navigation, the command line, help menu
2	Lecture – Introduction to Landscape Design: The Outdoor Space, Concept Defined Introduction to Drafting Techniques: a. Scale : Architect / Engineer b. Drafting Introduction to AutoCAD c. Familiarization with the screen components d. Exercises for using: toolbars, pull down menus, navigation, the command line, help menu i. Saving work and AutoCAD file management system. Assignment 1: Basic Commands / Basic Shapes
3	Lecture - The tool bar commands: customizing the tool bar, utilizing the tool bar commands Drafting: Line weight, Line Type Layers: Name, Color, Weight, Line Type CAD Scale: Introduction to Scale File Referencing: Files, Images Quiz Assignment 2: Layers Assignment 3: Knot Garden

- 4 Lecture - Introduction to Landscape Design: The Design Process
 Coordinates: Understanding the UCS
 Absolute rectangular coordinates, relative rectangular coordinates, polar coordinates
 Understanding Bearing Coordinates
 Land surveying, metes and bounds/bearing and distance
 Platting, Interpreting the plat plan, Easements/R.O.W.s
 Assignment 4: Coordinates / Drafting a Base
- 5 Lecture - Inventory / Analysis
 Sites Opportunities & Constraints
 Where are you?
 Environmental factors
 Plant associations
 Reference materials
 Soils, climate, plant material
 Use of naturalized and native species
 Assignment 5: Drawing Nodes & Symbols
 Assignment 6: Creating tree symbols in plan drawing exercise
- 6 Begin Drafting planting plan project
 Lecture - Theory of Design as an art form
 Quiz
 Drafting Planting Assignment: Drawing the site plan
 Setting up your drawing
 Developing a Planting Concept
- 7 Lecture – Concept to Form
 Site Amenities: Hardscape vs. Softscape
 Existing Landscape Material, lighting, windows, approaches, miscellaneous improvements
 Drafting Planting Assignment: Due Residential Planting Design
- 8 Lecture – Mid Term Assignment Begins
 Understanding a Projects Scope
 Client/user based design initiatives
 Understanding Text & Text Styles, Text Scale
 Text commands: labeling, Mtext, Dtext, Ddedit, Title block creation, labeling the drawing
 Quiz
 Mid Term Assignment: Concept & Project Design Creation
- 9 Lecture – Paper Space Model Space
 Concepts of paper space/model space
 Page Setup Sizing sheets
 Insertion of site plan drawing into paper space
 Creation of Mview, Scaling of drawing
 Dimensioning - Leaders
 Mid Term Assignment: Student/ Instructor Concept Review
- 10 Mid Term Assignment Due
 Lecture – Final Project Program & Development
 Client Scope
 Final Project Assignment: Base Development
- 11 Beginning Final Semester Project: Field Trip
 Lecture – Site Analysis / Site Inventory
 Final Project Assignment: Site Inventory / Analysis
- 12 Final Semester Project
 Lecture – Landscape Design
 Auto CAD: Tips & Tricks
 Final Project Assignment: Design Concept
 Student/ Instructor Concept Review

- 13 Final Semester Project
 - Lecture – Landscape Design
 - Auto CAD: Tips & Tricks
 - Quiz
- Final Project Assignment: Imaging & Theme Boards
- 14,15 Final Semester Project
 - Lecture – Landscape Design
 - Auto CAD: Tips & Tricks
 - Creating a Title Block
 - Refresh Paper Space / Model Space, Page Setup, Plotting
- Final Project Assignment: Creating the design document
- 16 Plotting: plotting commands, sending the document to the plotter, sending the document to the printer

Student Information (clubs, tutoring, web resources, etc.)

Ag. Consortium of Texas (ACT)

Texas Junior College Ag. Association (TJCAA)

Texas Nursery & Landscape Association (TNLA)

To access your student email from www.hccs.edu; Click on <http://webmail.hccs.edu> From the Faculty and Staff Link look for Employee Support and click on the Webmail <https://webmail.hccs.edu>