

COURSE OUTLINE

Revision: A. Aaron Burman Date: March 2011

DEPARTMENT:	Hospitality and Service Occupations
CURRICULUM:	Landscape and Environmental Horticulture
COURSE TITLE:	AutoCAD for Landscape Design
COURSE NUMBER:	LHO 267
TYPE OF COURSE:	Vocational Preparatory
COURSE LENGTH:	One (1) quarter
CREDIT HOURS:	Five (5)
LECTURE HOURS:	55
LAB HOURS:	0
CLASS SIZE:	19
PREREQUISITES:	No required course work. No previous landscape design work needed. Read and write English, familiarity with basic PC operation and terminology, file management, Windows environment, and mouse operations.

COURSE DESCRIPTION: This course is intended to introduce and then enhance fundamental computer aided drafting and design skills as used in residential landscape design with AutoCAD software. The course will focus on skills needed by entry level landscape CAD designers. This will include but not limited to developing accurate base maps from field notes, creating and customizing plant and hardscape libraries, landscape and area symbols. External links and reports will be covered. Students do not need experience in designing landscapes or generating planting plans before taking this course. Students will use the computer as a design tool, rather than learning design theory. Professional software is used.

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STUDENT LEARNING OUTCOMES ADDRESSED:

1. Computation – Students will apply PC based computer aided design skills to create organized and marketable residential landscape designs with accurate geometry and sheet graphics.
2. Technology – Students will have a firm understanding of the proper use and application of CAD in the residential landscape design process.
3. Communication - Speak, write and listen effectively with clients and other design professionals.
4. Human Relations - Effectively work with clients, colleagues and suppliers.
5. Critical thinking and Problem solving – Students will use critical thinking skills and knowledge to organize and use appropriate problem solving techniques to produce cost effective residential landscape designs.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Create and present information needed for a residential landscape design using CAD software.
2. Understand the limits and opportunities of computer-aided landscape design software.
3. Create specific plant style graphics.
4. Create and link tables with CAD drawings.
5. Plot a completed digital drawing at multiple scales.

I. TOPICAL OUTLINE:	APPROX. HOURS
I. CAD system history & theory overview	
Interface introduction and personalization	5
II. Drawing tools	5
III. Drawing tools 2	5
IV. Drawing tools manipulation	5
V. Plant graphic creation, modification, use	5
VI. Paper space, layout, plotting	5
VII. Drawing geometry	5
VIII. Block libraries – creation and use	5

IX.	Linking tables - Excel	5
X.	Final project work	8
XI.	Final project presentation	<u>2</u>
	Total	55