

Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title:

HORT 138 – Computerized Landscape Design

Number of credits: 3

Course Description:

Students will learn how to utilize CAD, 3D, and image editing software in the design process. Other topics include how to develop a functional diagram, the principles of design, design themes, and the development of a master plan.

Pre-requisite:

HORT 136 – Residential Landscape Design

Course Objectives:

Students will:

Study the importance of and develop a functional diagram.

Learn to utilize the principles of design.

Become familiar with the form composition process.

Learn the fundamentals of planting design.

Develop a master plan.

Instructor:

Mark Pomarleau

Office:

Molberg Center Room 26

Office Hours:

MWTh 10:00-12:00

Phone:

701-228-5489

Email:

mark.pomarleau@dakotacollege.edu

Lecture/Lab Schedule:

TuTh 8.00am –9;15am
Thatcher Hall 214

Textbook:

Title: Residential Landscape Architecture
Author: Norman K. Booth & James E. Hiss
Publisher: Pearson Prentice Hall
Edition/Year: 5th Edition
ISBN: 0-13-612697-9

Course Requirements:

Attendance: Required.

Tests: None.

Lab Assignments: All available points will be earned by completing weekly lab assignments.

Grading will be on the 90-80-70-60% grading scale.

Tentative Course Outline:**Week 1**

Chapter 8 – Functional Diagrams
Functional Diagram Assignment

Week 2

Chapter 8 – Functional Diagrams
Subspace Assignment

Week 3

Chapter 9 – Preliminary Design and Design Principles
Design Principles Assignment

Week 4

Chapter 9 – Preliminary Design and Design Principles
Design Principles Assignment

Week 5

Chapter 10 – Form Composition
Introduction to CAD
Overlapping Circles Assignment
Concentric Circles Assignment

Week 6

Chapter 10 – Form Composition

Curvilinear Assignment

Rectangular Assignment

Week 7

Google SketchUp

Assignment 1

Week 8

Google SketchUp

Assignment 2

Week 9

Chapter 10 – Form Composition

Diagonal Assignment

Week 10

Chapter 10 – Form Composition

Arc and Tangent Assignment

Angular Assignment

Week 11

Chapter 11 – Spatial Composition

Planting Design Assignment

Week 12

Adobe Photoshop

Assignment 1

Week 13

Adobe Photoshop

Assignment 1

Week 14

Chapter 12 – Material Composition and Master Plan

Master Plan Assignment

Week 15

Chapter 12 – Material Composition and Master Plan

Master Plan Assignment

Week 16

Chapter 12 – Material Composition and Master Plan

Master Plan Assignment

General Education Goals/Objectives:

Not applicable.

Relationship to Campus Theme: Nature, Technology and Beyond

Landscape design requires an appreciation of **nature** in order to design sustainable landscapes able to thrive under harsh urban conditions. Students will use CAD, 3D, and image editing **technology** as tools in designing these landscapes. **Beyond**, is the use of imagination to design spaces which will look and feel natural to those enjoying them.

Classroom Policies:

Please turn the ringer off of all cell phones. If a message is urgent, leave the classroom to take the call.

Academic Integrity:

Discussion among students during class projects is encouraged, however all tests are meant to be done entirely by the student. Any instance of cheating while taking a test will result in an automatic "F" for the test, and a possible "F" for the course.

Disabilities and Special Needs:

Please inform the instructor within the first week of class if any assistance is required due to disabilities or special needs.