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

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
Repeated Materials Assignment

Week 4
Chapter 9 – Preliminary Design and Design Principles
Character Palette Assignment

Week 5
Chapter 10 – Form Composition
Introduction to CAD
Overlapping Circles Assignment
Week 6
Chapter 10 – Form Composition
Concentric Circles Assignment
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
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:

If you have a disability for which you need accommodation, contact the Learning Center to request disability support services. Thatcher Hall 1104; 701-228-5477 or toll-free 1-888-918-5623.