NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY HRT 251 - SITE ENGINEERING FOR LANDSCAPE DESIGN (3 CR.)

Course Description

Applies skill sets and knowledge from planting design to the principles of engineering relating to the site. Includes developing topographical drawings, turning radius for vehicles, structural details, and other structural requirements with the design. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week

General Course Purpose

This course is designed to take the information gathered in site analysis and apply the engineering necessary to allow proper design, including turning radius, materials strength and topographical drawings, which will allow the design to be constructed.

Course Prerequisites/Co-requisites

Prerequisite or co-requisite is HRT 231 – Planting Design I. It is recommended but not required that the student take HRT 230 - Site Analysis before this course. Students must be able to take the basic information gathered relating to the site and apply the principles of engineering to structures and hardscapes.

Course Objectives

Upon completion of this course students should be able to:

- engineering drawings for details,
- calculate loads and engineering data from charts and tables,
- prepare topographical map,
- prepare drawings related to drainage.

Major topics to be Included

- a. Preparation of detail drawings
- b. Preparation of topographical map
- c. Preparation of landscape engineering specifications
- d. Process of analysis for drainage correction
- e. Application of site analysis to site engineering