Natural Sciences
Institutional (ILO), Program (PLO), and Course (SLO) Alignment

Program: Environmental Horticulture	**Number of Courses: 9**	**Date Updated 11.11.13**	**Submitted by** T. James Noyes Ext. 3356

Institutional SLOs	I. Content Knowledge	II. Critical, Creative, and Analytical Thinking	III. Communication and Comprehension	IV. Professional and Personal Growth	V. Community and Collaboration	VI. Information and Technology Literacy
Program Rating	4	4	2	3	4	3

Program Level SLOs	**ILOs to PLOs Alignment** (Rate 1-4)					
	I	II	III	IV	V	VI
PLO #1. Planning with Given Materials Upon completion of their study of course materials for the Environmental Horticulture Program, the successful student will be able to accurately identify a set of plant material; use that plant material in a landscape design; and prepare a maintenance schedule for the chosen plan materials.	4	4	4	4	2	2
PLO #2. Selection based on Criteria Upon completion of their study of course materials for the Environmental Horticulture Program, the successful student will be able to select plant materials for a given landscape based on water requirements, soil type, pest and disease resistance, growth habits, and design requirements.	4	4	4	2	2	2

Course Level SLOs	**Course to Program SLO Alignment** Mark with an X			**ILOs to Course SLOs Alignment** (Rate 1-4)					
	P1	**P2**		**I**	**II**	**III**	**IV**	**V**	**VI**
HORT 41 General Horticulture: SLO #1 The successful General Horticulture student will be able to describe the basic concepts of horticulture.	X	X		4	4	2	2	4	2
HORT 41 General Horticulture: SLO #2 The successful General Horticulture student will be able classify a plant using the plant binomial nomenclature system.	X			4	4	2	2	4	2
HORT 41 General Horticulture: SLO #3 The successful General Horticulture student will be able to describe locations on trees and shrubs using horticulture terminology.	X			4	4	2	2	4	2

Course Level SLOs	Course to Program SLO Alignment Mark with an X			ILOs to Course SLOs Alignment (Rate 1-4)					
	P1	P2		I	II	III	IV	V	VI
HORT 42 Plant Propagation: SLO #1 The successful Plant Propagation student will be able to describe the basic concepts of plant propagation.	X	X		4	4	2	4	4	4
HORT 42 Plant Propagation: SLO #2 The successful Plant Propagation student will be able to use proper techniques to take and prepare cuttings for the propagation of a given plant.	X	X		4	4	2	4	4	4
HORT 42 Plant Propagation: SLO #3 The successful Plant Propagation student will be able to prepare soil for seed planting and properly sow a given variety of seed.	X	X		4	4	2	4	4	4
HORT 44 Ecology of Edible, Medicinal and Poisonous Plants: SLO #1 The successful student of Ecology of Edible, Medicinal and Poisonous Plants will be able to correctly identify approximately 150 plants commonly know to be edible, medicinal or poisonous.	X			4	4	2	4	4	4
HORT 44 Ecology of Edible, Medicinal and Poisonous Plants: SLO #2 The successful student of Ecology of Edible, Medicinal and Poisonous Plants will be able to explain where indicated plants are typically found.	X			4	4	2	4	4	4
HORT 46 Pest Control: SLO #1 The successful Pest Control student will be able to describe the basic concepts of pest control.	X			4	4	2	4	2	4
HORT 46 Pest Control: SLO #2 The successful pest control student will be able to determine the different orders of the various pests found in landscapes.		X		4	4	2	4	2	4
HORT 46 Pest Control: SLO #3 The successful pest control student will be able to discuss the modes of action of various pesticides.		X		4	4	2	4	2	4

Course Level SLOs	Course to Program SLO Alignment Mark with an X			ILOs to Course SLOs Alignment (Rate 1-4)					
	P1	P2		I	II	III	IV	V	VI
HORT 53 Soils and Fertilizers: SLO #1 The successful Soils & Fertilizers student will be able to determine soil textures through the use of soil settling analysis and 'in the hand' analysis; recognize basic soil structures; and calculate bulk densities, soil porosity, soil permeability, and soil pH.		X		4	4	2	4	2	4
HORT 53 Soils and Fertilizers: SLO #2 The successful Soils & Fertilizers student will be able to list the nutrients essential to plant growth and explain how the nutrients contribute to plant growth.		X		4	4	2	4	2	4
HORT 53 Soils and Fertilizers: SLO #3 The successful Soils & Fertilizers student will be able to select proper soil amendments for a given soil.		X		4	4	2	4	2	4
HORT 54 Landscape Design: SLO #1 The successful Landscape Design student will be able to design and draft a working landscape drawing using proper plant symbols to represent various plant materials of various sizes.	X			4	4	2	4	4	4
HORT 54 Landscape Design: SLO #2 The successful Landscape Design student will be able to create a working landscape using sustainable methods including plant and material selections.	X	X		4	4	2	4	4	4
HORT 55 Plant Identification – Trees: SLO #1 The successful Plant ID-Tree student will be able to identify approximately 150 commonly used landscape plants.	X			4	4	2	4	2	4
HORT 55 Plant Identification – Trees: SLO #2 The successful Plant ID-Tree student will be able to select trees based on environmental conditions, space constraints and design needs.	X	X		4	4	2	4	2	4

Course Level SLOs	Course to Program SLO Alignment Mark with an X			ILOs to Course SLOs Alignment (Rate 1-4)					
	P1	P2		I	II	III	IV	V	VI
HORT 56 Plant Identification – Scrubs, Vines, and Groundcovers: SLO #1 The successful Plant ID-SVG student will be able to correctly identify approximately 150 commonly used landscape plants.	X			4	4	2	4	2	4
HORT 56 Plant Identification – Scrubs, Vines, and Groundcovers: SLO #2 The successful Plant ID-SVG student will be able to select shrubs, vines and groundcovers based on environmental conditions, space constraints and design needs.	X	X		4	4	2	4	2	4
HORT 60 Basic Landscape Irrigation: SLO #1 The successful basic landscape irrigation student will be able to determine water flow through given pipe based on pipe types and diameters.		X		4	4	2	4	2	4
HORT 60 Basic Landscape Irrigation: SLO #2 The successful basic landscape irrigation student will be able to select suitable sprinkler heads and nozzles based on a given landscape area.		X		4	4	2	4	2	4
HORT 60 Basic Landscape Irrigation: SLO #3 The successful basic landscape irrigation student will be able to select the proper irrigation pipe types and diameters based on the flow demand to a given area.		X		4	4	2	4	2	4