Nursery and Landscape Capstone012001…6055

Course Description

This course will identify opportunities in the landscape and turf management industries, describe the elements of designing, maintaining, and constructing landscapes, giving them knowledge for continuing education and employment and give students the knowledge and skills for proper plant care and maintenance.

Course Code:

Program(s) of Study to which This Course Applies

- Plant Science

Course Framework	Reference Standards	Academic Crosswalk
Standard 1. Students will create and interpret landscape plans.	GA (AG-NL-7)	[TBD by NDE]
Benchmark 1.1 Identify common tools used in site analysis and landscape design drawing. Sample performance indicators: • Utilize drawing tools to sketch a proposed site. • Use measuring equipment to calculate area and slope. • Correctly scale a drawing using engineers and architects scales.	NE (AE 12.5.2) GA (AG-NL-9)	[TBD by NDE]
Benchmark 1.2 Correlate principles of design with landscape plans. Sample performance indicators: • Identify and explain the principles and elements of landscape design. • Appraise existing landscapes for artistic forms.		
Benchmark 1.3 Evaluate a proposed landscape site and plan.		

Sample performance indicators: • Create a rough sketch of a proposed site. • Interview a customer to determine needs and wants for a site.		
Benchmark 1.4 Create a landscape plan to proper scale. Sample performance indicators: • Produce a scaled plan for a proposed landscape site. • Correctly apply industry-approved symbols to drawings. • Present a completed design for class and customer evaluation.		
Benchmark 1.5 Develop a pricing strategy for landscape planning, design, and installation. Sample performance indicators: • Calculate area and volume of materials for a proposed landscape site. • Create a budget estimate for a proposed landscape site.		
Standard 2. Students will identify and select plants for a landscape.	NS (PS.01.01)	[TBD by NDE]
Benchmark 2.1 Identify common landscape plants by common and scientific name. Sample performance indicators: • Identify by sight, common landscape plants. • Develop a plant collection of common plants.		[TBD by NDE]
Benchmark 2.2 Classify plants according to use. Sample performance indicators: • Label plants as either deciduous or evergreen. • Differentiate between uses in a landscape.		
Benchmark 2.3 Select plants based on their usage and growth characteristics. Sample performance indicators: • Choose plants for correct usage in landscapes. • Select plants based on USDA Hardiness Zone map.		
Standard 3. Students will demonstrate the installation of plants and landscape	NE (AE 12.5.2)	[TBD by NDE]

materials.		
Benchmark 3.1 Identify common hardscape materials used in landscaping. Sample performance indicators: • List hardscape materials and their uses in a landscape. • Compare and contrast various materials by cost and durability.	NC (LC05.01)	[TBD by NDE]
Benchmark 3.2 Apply procedures to use equipment to install landscapes and hardscapes. Sample performance indicators: • Install a retaining wall. • Install auxiliary lighting. • Install a brick patio.		
Benchmark 3.3 Describe procedures for proper plant installation. Sample performance indicators: • Explain the steps for container, bare root, and balled and burlap plants. • Install a plant into a landscape.		
Standard 4. Students will properly maintain landscape features.	NE (AE 12.5.2)	[TBD by NDE]
Benchmark 4.1 Demonstrate proper pruning timing and procedures. Sample performance indicators: • Identify common tools used in pruning. • Explain needs and concerns of pruning various plants. • Correctly prune a tree or shrub.		
Benchmark 4.2 Properly mulch landscape plants. Sample performance indicators: • Identify common mulch materials and their purpose. • Estimate mulch needs for a landscape site. • Install mulching material.		
Benchmark 4.3 Apply proper weed and pest control.		

Sample performance indicators: • Identify weed control needs based on species of weeds in the landscape. • Read and interpret a pesticide label for proper use. • Successfully trap a mole and select the best barbeque sauce for cooking.		
Benchmark 4.4 Identify irrigation concerns and methods. Sample performance indicators: • Install drip line for plant irrigation. • Create a watering schedule based on area and need.		[TBD by NDE]
Standard 5. Students will select and maintain turf for a given environment.	NE (AE 12.5.2)	[TBD by NDE]
Benchmark 5.1 List the types and characteristics of turf grasses grown in Nebraska. Sample performance indicators: • Identify turf grass by herbaceous characteristics. • List advantages and disadvantages species use. • Classify turf species by growth habits.		
Benchmark 5.2 Describe the procedures for installing a turf grass. Sample performance indicators: • Prepare a site for new turf installation. • Explain the steps and concerns of seeding and sodding.		
Benchmark 5.3 Demonstrate proper maintenance for turf grass. Sample performance indicators: • Create a fertilization schedule for the growing season. • Operate turf maintenance equipment. • Maintain and adjust turf equipment. • Explain the need for aeration and de-thatching.		
Benchmark 5.4 Identify common pests and diseases in turf grass and control procedures. Sample performance indicators:		[TBD by NDE]

• Identify by sight, common weeds found in turf grass. • Create a cause and effect chart of common turf diseases. • Select proper control methods for given turf diseases or pests.		

Reference Standards Sources
- *GA= Georgia Performance Standards*
- *NE= Nebraska Links to Learn*
- *NS= National Standards*
- *NC= North Carolina- Horticulture II Landscaping course blueprint*

Other Information

Suggestions for innovative teaching and learning strategies:	• Install and landscape an area of the school • Visit and interview a golf course superintendent • Computerized landscape programs • Intelliprep
Related assessments:	• Pesticide applicators license • Hunter Education Class
Extended learning opportunities:	• Nursery & Landscape Career Development Event • Turf and Landscape related Supervised Agricultural Experiences • Trade shows