Agriculture, Food & Natural Resources Career Cluster Nursery and Landscape Course Number 01.47000

Course Description

This course is designed to provide students with the basic skills and knowledge utilized by the green industry in nursery production and management and landscape design and management. Classroom and laboratory activities are supplemented through supervised agricultural experiences and leadership programs and activities.

Course Standard 1

AFNR-NL-1

The following standard is included in all CTAE courses adopted for the Career Cluster/Pathways. Teachers should incorporate the elements of this standard into lesson plans during the course. The topics listed for each element of the standard may be addressed in differentiated instruction matching the content of each course. These elements may also be addressed with specific lessons from a variety of resources. This content is not to be treated as a unit or separate body of knowledge but rather integrated into class activities as applications of the concept.

Standard: Demonstrate employability skills required by business and industry.

The following elements should be integrated throughout the content of this course.

1.1 Communicate effectively through writing, speaking, listening, reading, and interpersonal abilities.

Person-to-Person	Telephone and	Cell Phone and	Communicating At	Listening
Etiquette	Email Etiquette	Internet Etiquette	Work	
Interacting with	Telephone	Using Blogs	Improving	Reasons, Benefits,
Your Boss	Conversations		Communication Skills	and Barriers
Interacting with	Barriers to Phone	Using Social Media	Effective Oral	Listening Strategies
Subordinates	conversations		Communication	
Interacting with	Making and		Effective Written	Ways We Filter
Co-workers	Returning Calls		Communication	What We Hear
Interacting with	Making Cold Calls		Effective Nonverbal	Developing a
Suppliers			Skills	Listening Attitude
	Handling		Effective Word Use	Show You Are
	Conference Calls			Listening
	Handling		Giving and Receiving	Asking Questions
	Unsolicited Calls		Feedback	
				Obtaining Feedback
	· · · · · · · · · · · · · · · · · · ·			Getting Others to
				Listen

Nonverbal Communication	Written Communication	Speaking	Applications and Effective Résumés
Communicating Nonverbally	Writing Documents	Using Language Carefully	Completing a Job Application
Reading Body Language and mixed Messages	Constructive Criticism in Writing	One-on-One Conversations	Writing a Cover Letter
Matching Verbal and Nonverbal communication		Small Group Communication	Things to Include in a Résumé
Improving Nonverbal Indicators		Large Group Communication	Selling Yourself in a Résumé
Nonverbal Feedback		Making Speeches	Terms to Use in a Résumé

Showing Confidence	Involving the	Describing Your Job Strengths
Nonverbally	Audience	
Showing Assertiveness	Answering Questions	Organizing Your Résumé
	Visual and Media Aids	Writing an Electronic Résumé
	Errors in Presentation	Dressing Up Your Résumé

1.2 Demonstrate creativity by asking challenging questions and applying innovative procedures and methods.

Teamwork and Problem Solving	Meeting Etiquette	
Thinking Creatively	Preparation and Participation in Meetings	
Taking Risks	Conducting Two-Person or Large Group Meetings	
Building Team Communication	Inviting and Introducing Speakers	
	Facilitating Discussions and Closing	
	Preparing Visual Aids	
	Virtual Meetings	

1.3 Exhibit critical thinking and problem solving skills to locate, analyze and apply information in career

planning and employment situations.

	ind employment situa			
Problem	Customer Service	The Application Process	Interviewing	Finding the Right
Solving			Skills	Job
Transferable	Gaining Trust and	Providing Information,	Preparing for an	Locating Jobs and
Job Skills	Interacting with	Accuracy and Double	Interview	Networking
	Customers	Checking		
Becoming a	Learning and	Online Application	Questions to Ask in	Job Shopping
Problem Solver	Giving Customers	Process	an Interview	Online
	What They Want			
Identifying a	Keeping Customers	Following Up After	Things to Include in	Job Search
Problem	Coming Back	Submitting an Application	a Career Portfolio	Websites
Becoming a	Seeing the	Effective Résumés:	Traits Employers	Participation in Job
Critical Thinker	Customer's Point		are Seeking	Fairs
Managing	Selling Yourself and	Matching Your Talents to	Considerations	Searching the
	the Company	a Job	Before Taking a Job	Classified Ads
	Handling Customer	When a Résumé Should		Using Employment
	Complaints	be Used		Agencies
	Strategies for			Landing an
	Customer Service			Internship
				Staying Motivated
				to Search

1.4 Model work readiness traits required for success in the workplace including integrity, honesty,

accountability, punctuality, time management, and respect for diversity.					
Workplace Ethics	Personal	Employer	Business Etiquette	Communicating at	
	Characteristics	Expectations		Work	
Demonstrating	Demonstrating a	Behaviors	Language and	Handling Anger	
Good Work Ethic	Good Attitude	Employers Expect	Behavior		
Behaving	Gaining and	Objectionable	Keeping Information	Dealing with	
Appropriately	Showing Respect	Behaviors	Confidential	Difficult Coworkers	
Maintaining	Demonstrating	Establishing	Avoiding Gossip	Dealing with a	
Honesty	Responsibility	Credibility		Difficult Boss	
Playing Fair	Showing	Demonstrating Your	Appropriate Work	Dealing with	
	Dependability	Skills	Email	Difficult Customers	
Using Ethical	Being Courteous	Building Work	Cell Phone Etiquette	Dealing with Conflict	
Language		Relationships			
Showing	Gaining		Appropriate Work		
Responsibility	Coworkers' Trust		Texting		

Reducing	Persevering	Understandin	ıg
Harassment		Copyright	
Respecting	Handling	Social Network	ring
Diversity	Criticism		
Making Truthfulness	Showing		
a Habit	Professionalism		
Leaving a Job			
Ethically			

1.5 Apply the appropriate skill sets to be productive in a changing, technological, diverse workplace to be able to work independently and apply team work skills.

Expected Work Traits	Teamwork	Time Management
Demonstrating Responsibility	Teamwork Skills	Managing Time
Dealing with Information Overload	Reasons Companies Use Teams	Putting First Things First
Transferable Job Skills	Decisions Teams Make	Juggling Many Priorities
Managing Change	Team Responsibilities	Overcoming Procrastination
Adopting a New Technology	Problems That Affect Teams	Organizing Workspace and Tasks
	Expressing Yourself on a Team	Staying Organized
	Giving and Receiving Constructive	Finding More Time
	Criticism	
		Managing Projects
_		Prioritizing Personal and Work Life

1.6 Present a professional image through appearance, behavior and language.

On-the-Job Etiquette	Person-to-Person Etiquette	Communication Etiquette	Presenting Yourself
Using Professional	Meeting Business	Creating a Good Impression	Looking Professional
Manners	Acquaintances		
Introducing People	Meeting People for the First	Keeping Phone Calls	Dressing for Success
	Time	Professional	
Appropriate Dress	Showing Politeness	Proper Use of Work Email	Showing a Professional
			Attitude
Business Meal		Proper Use of Cell Phone	Using Good Posture
Functions			
Behavior at Work		Proper Use in Texting	Presenting Yourself to
Parties			Associates
Behavior at			Accepting Criticism
Conventions			
International Etiquette			Demonstrating
			Leadership
Cross-Cultural Etiquette			
Working in a Cubicle			

Support of CTAE Foundation Course Standards and Georgia Standards of Excellence L9-10RST 1-10 and L9-10WHST 1-10:

Georgia Standards of Excellence ELA/Literacy standards have been written specifically for technical subjects and have been adopted as part of the official standards for all CTAE courses.

Course Standard 2

AFNR-NL-2

Modify behavior to work safely in the agriculture lab and work sites, demonstrate selected competencies in leadership through the FFA and agricultural industry organizations, and develop plans for a Supervised Agricultural Experience Program (SAEP).

- 2.1 Explain the role of the Agricultural Education program and the FFA in personal development.
- 2.2 Demonstrate knowledge learned through a SAEP.

- 2.3 Develop leadership and personal development skills through participation in the FFA.
- 2.4 Explore career opportunities in horticulture/plant science through the FFA and Agricultural Education Program.
- 2.5 Explore the professional agricultural organizations associated with the course content.

Course Standard 3

AFNR-NL-3

Explore and formulate a logical discussion about the green industry including its scope, importance, and careers available in the nursery and landscape industries.

- 3.1 Define and describe the overall structure, scope, and importance of the green industry.
- 3.2 Discuss the scope and importance of the nursery and landscape industries.
- 3.3 Explore career opportunities in the green industry related to nursery and landscape.

Course Standard 4

AFNR-NL-4

Identify tools and equipment and explain their function in the nursery and landscape industries.

- 4.1 Identify hand and power tools and equipment used in landscape operations.
- 4.2 Demonstrate proper tool and equipment safety procedures in nursery and landscape operations.
- 4.3 Demonstrate proper maintenance and storage for tools and equipment.

Course Standard 5

AFNR-NL-5

Describe plant nomenclature, identification, and plant environmental needs.

- 5.1 Define the history and purpose of botanical nomenclature.
- 5.2 Identify common landscape and nursery plants by common and scientific names.
- 5.3 Classify plants using horticultural characteristics (e.g. trees, shrubs, vines, groundcovers).
- 5.4 Categorize plants by their environmental needs (e.g. sun, shade, drought tolerant).

Course Standard 6

AFNR-NL-6

Investigate the properties of soils and determine the factors that affect crop productivity and plant health.

- 6.1 Describe soil structural characteristics that affect fertility and plant growth.
- 6.2 Identify types, characteristics, and uses of soil amendments.
- 6.3 Demonstrate soil testing procedures and prescribe treatments based on the interpretation of soil test results.

Course Standard 7

AFNR-NL-7

Design new and existing landscape planting sites for nursery and landscape plants.

- 7.1 Discuss the importance of preparing beds for planting.
- 7.2 Determine ways to calculate the area of varying shaped planting sites.
- 7.3 Calculate the amount of fertilizer, lime, and/or other soil amendments needed for the planting site.
- 7.4 Demonstrate preparation of the planting site using hand tools and power equipment.
- 7.5 Modify an existing landscape site to renovate and improve its aesthetics and function.

Course Standard 8

AFNR-NL-8

Install and maintain landscape plants to industry standards and recommended practices.

- 8.1 Identify and demonstrate proper planting procedures.
- 8.2 Identify and demonstrate correct mulching applications.
- 8.3 Identify and demonstrate accurate fertilizer applications.
- 8.4 Describe and demonstrate appropriate pruning techniques.

Course Standard 9

AFNR-NL-9

Create and interpret landscape plans based on industry standards and recommended practices.

- 9.1 Identify equipment used in site analysis and landscape drawing processes.
- 9.2 Assess client and site needs.
- 9.3 Measure and draw to scale a given landscape using field notes and desired specifications.
- 9.4 Utilize standard landscape drawing practices including landscape symbols, computer programs, hand tools, etc.
- 9.5 Apply the principles of landscape design.
- 9.6 Select appropriate landscape plant materials.
- 9.7 Produce a landscape plan.

Course Standard 10

AFNR-NL-10

Develop a pricing strategy for landscape planning, design, and installation.

- 10.1 Calculate the cost of a landscape plan and installation.
- 10.2 Identify different methods used to price landscape plans and installation.

Course Standard 11

AFNR-NL-11

Identify plant pests, pest control practices, and prescribe the use of cultural, biological and chemical materials and methods to protect nursery crops and landscape plantings.

- 11.1 Identify and describe landscape pests.
- 11.2 Analyze damage to landscape plants from pests.
- 11.3 Identify different types of management approaches to control pests.
- 11.4 Describe the concepts of integrated pest management.

Course Standard 12

AFNR-NL-12

Compare and contrast the use of various plant irrigation methods based on plant needs, effectiveness and economic feasibility.

- 12.1 Investigate the relationship between water and plant growth.
- 12.2 Judge types of irrigation systems based on plant needs, effectiveness, feasibility, ease of use, etc.
- 12.3 Demonstrate effective watering methods and techniques.

Course Standard 13

AFNR-NL-13

Identify and recommend turf grasses for various landscape situations.

- 13.1 Describe characteristics of turf leaves, seeds, and stems.
- 13.2 Classify turf grasses species.
- 13.3 Select turf grasses for specific purposes (e.g. athletic fields, golf courses, lawns, shade areas).

Course Standard 14

AFNR-NL-14

Prepare an annual calendar of activities for nursery and landscape operations.

- 14.1 Evaluate labor needs of landscape and nursery jobs based on seasons.
- 14.2 Create a growing and maintenance calendar for nursery and landscape plants.
- 14.3 Develop an annual calendar of activities for a nursery and landscape operation.