

COURSE OUTLINE: NRT145 - HORTIC/GROUNDSKEEPER

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Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

Course Code: Title	NRT145: HORTICULTURE GROUNDSKEEPER				
Program Number: Name	5220: NAT ENVIRONMENT TN				
Department:	NATURAL RESOURCES PRG				
Semesters/Terms:	19W				
Course Description:	Students will receive training in the care and maintenance of grasses, flowers, trees, shrubs and invasive plants associated with managed and manicured landscapes. Practical experience with appropriate equipment in mowing, trimming, watering, planting and transplanting, pest management and pruning will be emphasized.				
Total Credits:	3				
Hours/Week:	3				
Total Hours:	45				
Prerequisites:	There are no pre-requisites for this course.				
Corequisites:	There are no co-requisites for this course.				
Vocational Learning	5220 - NAT ENVIRONMENT TN				
Outcomes (VLO's) addressed in this course:	VLO 2	Utilize natural resources equipment and technology to accurately identify ecosystem components for purposes of conserving and managing natural resources.			
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 3	Apply the basic concepts of science to natural resource conservation and management.			
	VLO 5	9.5 Recommend eco-site conservation and management strategies through the classification of ecosystem components.			
	VLO 6	6 Practice principles and ethics associated with natural resource conservation and management issues.			
	VLO 7	Work safely in adherence to occupational health and safety standards.			
	VLO 8	D 8 Complete all work in compliance with applicable municipal, provincial and federal standards and guidelines.			
	VLO 9	Contribute to the implementation of natural resource conservation and management.			
	VLO 10	Perform basic project management support techniques.			
	VLO 11	Communicate technical information accurately and effectively in oral, written and visual forms.			
	VLO 12	Travel accurately in a timely manner in the outdoors using appropriate navigation aids and motorized transport equipment.			
	VLO 13				
Essential Employability Skills (EES) addressed in	EES 1	Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.			
this course:	EES 2	Respond to written, spoken, or visual messages in a manner that ensures effective communication.			

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	 EES 5 Use a variety of thin EES 6 Locate, select, orga and information systems EES 7 Analyze, evaluate, EES 8 Show respect for the others. EES 9 Interact with others relationships and the tess 10 Manage the use of EES 11 Take responsibility 	 Apply a systematic approach to solve problems. Use a variety of thinking skills to anticipate and solve problems. Locate, select, organize, and document information using appropriate technology and information systems. Analyze, evaluate, and apply relevant information from a variety of sources. Show respect for the diverse opinions, values, belief systems, and contributions of others. Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. Manage the use of time and other resources to complete projects. Take responsibility for ones own actions, decisions, and consequences. 					
Course Evaluation:	Passing Grade: 50%, D						
Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1					
	1. Beginning with the basics of soil sciences	 1.1 Essential elements for plant growth 1.2 Soil structures 1.3 How plants feed and utilize soil nutrients 1.4 pH and its relationship with essential nutrients and basic plant functions 1.5 Some microorganisms and their relationship and functions in soils that influence plant health and growth 1.6 Composting and nitrogen fixing bacteria 1.7 The carbon to nitrogen ratio 					
	Course Outcome 2	Learning Objectives for Course Outcome 2					
	2. Study of the practical use of fertilizers and the environment	 2.1 What does fertilizer guaranteed analysis mean 2.2 When to use each type of fertilizer and which fertilizer 2.3 Organic versus chemical fertilizers 2.4 Soil-less mixtures versus soil mixtures as growing medium 2.5 Grow your own geranium cuttings 2.6 Grow your own seedlings 					
		2.5 Grow your own geranium cuttings					
	Course Outcome 3	2.5 Grow your own geranium cuttings					
	Course Outcome 3 3. Horticulture Plant Identification	2.5 Grow your own geranium cuttings 2.6 Grow your own seedlings					
	3. Horticulture Plant	 2.5 Grow your own geranium cuttings 2.6 Grow your own seedlings Learning Objectives for Course Outcome 3 3.1 Learning ten annual bedding plants 3.2 Learning ten species of perennial plants 3.3 Learning ten shrub species 3.4 Learning ten tree species 3.5 Selecting exotic non-invasive horticultural species and 					
	3. Horticulture Plant Identification	 2.5 Grow your own geranium cuttings 2.6 Grow your own seedlings Learning Objectives for Course Outcome 3 3.1 Learning ten annual bedding plants 3.2 Learning ten species of perennial plants 3.3 Learning ten shrub species 3.4 Learning ten tree species 3.5 Selecting exotic non-invasive horticultural species and protecting the environment 					
	3. Horticulture Plant Identification	 2.5 Grow your own geranium cuttings 2.6 Grow your own seedlings Learning Objectives for Course Outcome 3 3.1 Learning ten annual bedding plants 3.2 Learning ten species of perennial plants 3.3 Learning ten tree species 3.4 Learning ten tree species 3.5 Selecting exotic non-invasive horticultural species and protecting the environment Learning Objectives for Course Outcome 4 4.1 Different types of turf (grass species) and uses 4.2 Fertilizers and pesticide use in turf management 4.3 Tools, machinery and their uses 					

 5.3 Grow edible seed plants

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	5.4 Propagate plants from cuttings						
Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight	Course Outcome Assessed	1			
	Labs/Assignments	50%	All				
	Tests	50%	All				
Date:	June 19, 2018						
	Please refer to the course outline addendum on the Learning Management System for further information.						

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