

Prerequisites:	There are no pre-requisites for this course.			
Corequisites:	There are no co-requisites for this course.			
Substitutes:	NRT107			
Vocational Learning Outcomes (VLO's) addressed in this course:	 5212 - ADVENTURE RECREATION VLO 1 Demonstrate clear, concise and industry appropriate written, spoken and visual communication skills. 			
Please refer to program web page for a complete listing of program	VLO 2 Identify, discuss, organize and assess common Flora & Fauna species found throughout ON, including biological and physiological characteristics.			
outcomes where applicable.	VLO 7 Describe the scientific method and how it shapes our understanding of the ecology of the natural world.			

VLO 11 Analyze, evaluate and apply subjective and objective safety considerations for Adventure Recreation and Parks activities.

5214 - FISH/WILD CONSERVATN

- VLO 1 Demonstrate clear, concise and industry appropriate written, spoken and visual communication skills
- VLO 2 Identify, discuss, organize and assess common flora and fauna species found

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throughout Ontario, including biological characteristics

- VLO 3 Demonstrate the ability to follow standardized protocols to collect field data on fish and wildlife populations in a variety of weather and site conditions.
- VLO 11 Analyze, evaluate and apply subjective and objective safety considerations.

5220 - NAT ENVIRONMENT TN

- VLO 1 Collect data from representative biological and environmental samples using routine test procedures.
- VLO 2 Utilize natural resources equipment and technology to accurately identify ecosystem components for purposes of conserving and managing natural resources.
- VLO 3 Apply the basic concepts of science to natural resource conservation and management.
- VLO 4 Conduct natural environment assessments according to standard field survey methods, including the use of appropriate equipment and materials.
- VLO 11 Communicate technical information accurately and effectively in oral, written and visual forms.

5221 - NAT ENVIRONMENT TY

- VLO 1 Collect, analyze, interpret and report on data from representative biological and environmental samples.
- VLO 2 Utilize natural resources information technology equipment to assemble, analyze and present identified ecosystem components for purposes of conserving and managing natural resources.
- VLO 10 Communicate technical information accurately and effectively in oral, written, visual and electronic forms.

5230 - FORESTRY TECHNICIAN

- VLO 2 Assess soil characteristics, vegetation and wildlife habitats to identify their interactions within forest ecosystems.
- VLO 8 Work independently and in a collaborative environment while applying effective teamwork, leadership and interpersonal skills.
- VLO 9 Communicate technical information to a variety of stakeholders in oral, written, visual and electronic forms.

Essential Employability Skills (EES) addressed in this course:

- 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.
 EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective
 - EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.
 - EES 4 Apply a systematic approach to solve problems.
 - EES 5 Use a variety of thinking skills to anticipate and solve problems.
 - EES 6 Locate, select, organize, and document information using appropriate technology and information systems.
 - EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.

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	e e	S 10 Manage the use of time and other resources to complete projects.S 11 Take responsibility for ones own actions, decisions, and consequences.				
General Education Themes:	Science and Technology					
Course Evaluation:	Passing Grade: 50%, D					
	A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.					
Other Course Evaluation & Assessment Requirements:	Missed Identification Test/Lab Assignment:					
	Identification Tests will normally occur weekly during lab portion of the course.					
	No makeups will be allowed for field (outdoor) identification tests except under extenuating circumstances.					
	Missed Lecture Test/Quiz:					
	Lecture tests/quizzes will be announced at least one week in advance.					
	For a student to be eligible to complete a missed lecture test/quiz, the instructor must be contacted in person or via email to discuss makeup options prior to a missed class or within 48 hours after the date of the missed lecture test/quiz. Students not contacting the instructor within this time period will get a zero grade on a given assessment for that particular day (except under extenuating circumstances, e.g., doctor`s note).					
	Academic success is directly linked to attendance. Missing more than 1/3 of the course hours in a semester shall result in a F Grade for this Course					
Books and Required Resources:	Michigan Trees, Revised and Updated by Barnes, B. V. and Wagner, W. H. Jr. (2004) Publisher: University of Michigan Press					
	Michigan Vines and Shrubs by Barnes, B. V. et al. (2016) Publisher: University of Michigan Press					
	Newcomb`s Wildflower Guide by Newcomb, L. (1989) Publisher: Little, Brown and Company, Toronto					
Course Outcomes and Learning Objectives:	Course Outcome 1	Learning Objectives for Course Outcome 1				
	1. Identify broad-leaf species trees and shrubs in leaf-off condition.	 1.1 Identify the morphological features of a woody twig using appropriate terminology. 1.2 Identify and describe flowering or fruiting structures using appropriate terminology and relate to taxonomic group. 1.3 Use features such as twigs, bark, flowering and fruiting structures, growth form and ecological associations to correctly identify a particular tree or shrub by their common name. 1.4 Associate common names with scientific names for all deciduous trees and shrubs studied. 1.5 Identify Ontario's predominate deciduous tree species (11) by their scientific name. 				

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	Course Outcome 2	Learning Objectives for Course Outcome 2				
	2. Associate key identification features with the common names of commercially important Western Canadian coniferous trees.	conife	 2.1 Recognize commercially important Western Canadian coniferous trees. 2.2 Associate key features with common names. Learning Objectives for Course Outcome 3 3.1 Associate technical terms with their definitions. 3.2 Evaluate options set forth in a dichotomous word key. 3.3 Follow a dichotomous word key in an orderly, systematic manner. Learning Objectives for Course Outcome 4 			
	Course Outcome 3	Learn				
	3. Identify woody and herbaceous plants using dichotomous word keys (winter leaf-off trees and shrubs, flowering herbaceous and dwarf woody plants).	3.2 Ev 3.3 Fo				
	Course Outcome 4	Learn				
	4. Identify herbaceous and dwarf woody plants and woody and herbaceous plants considered invasive.	 4.1 Use features including leaf characteristics and flower structure, size, and colour to correctly 4.2 identify a particular plant. 4.3 Recognize the ecological and societal impacts of invasive plants. 				
Evaluation Process and Grading System:	Evaluation Type		Evaluation Weight	1		
	Assignments		20%			
	Identification tests/lab assignments		60%			
	Lecture tests/quizzes		20%			
Date:	June 17, 2020	June 17, 2020				
Addendum:	Please refer to the course out information.	tline ado	lendum on the Learr	ning Management System for further		

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