

COURSE OUTLINE: NRT252 - FALL CAMP-FOR-2ND YR

Prepared: Adam Hodgson

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

Course Code: Title	NRT252: FALL CAMP - FORESTRY - 2ND YEAR		
Program Number: Name	5230: FORESTRY TECHNICIAN		
Department:	NATURAL RESOURCES PRG		
Semesters/Terms:	20F		
Course Description:	Students will carry out practical exercises and perfect outdoor skills as they relate to a forest technician. Exercises are drawn from the Trees & Shrubs, Field Orientation, Forest Management and Planning, Soils Analysis, Silviculture 1 & 2, Forest Mensuration, Forest Harvesting and Products, and Tree Marking courses. Students will investigate red pine plantations, plant trees, assess planter performance, conduct regen surveys, and tree mark for a regeneration harvest in white pine. Students will learn to select crop trees and utilize clearing saws to safely release them from competition. In addition, students will visit a long-term research site relating to jack pine productivity.		
Total Credits:	2		
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 Outcomes (VLO's) addressed in this course: Please refer to program web page for a complete listing of program outcomes where applicable.	 VLO 1 Conduct forest inventory surveys and field measurements to determine forest resources and values in forests and woodlots. VLO 2 Assess soil characteristics, vegetation and wildlife habitats to identify their interactions within forest ecosystems. VLO 3 Perform technical functions in silvicultural operations and assist in the monitoring and evaluation of the effectiveness of silvicultural practices. VLO 4 Collect, analyze, interpret, and display spatial data using mapping technology and Geographical Information Systems (GIS) to contribute to forest resource management. 		
	 VLO 5 Contribute to sustainable forest management plans, including conservation and rehabilitation measures, taking into consideration the perspectives of a variety of stakeholders and the requirements of relevant legislation and regulations. VLO 7 Select, operate, troubleshoot and maintain tools and equipment in a variety of environmental conditions and in accordance with safety and operating standards. 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. 		

In response to public health requirements pertaining to the COVID19 pandemic, course delivery and assessment traditionally delivered in-class, may occur remotely either in whole or in part in the 2020-2021 academic year.



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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 communication.				
	EES 4	S 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 7	Analyze, evaluate, and apply relevant information from a variety of sources.				
	EES 9		in groups or teams that contribute to effective working a chievement of goals.			
	EES 10	Manage the use of	time and other resources to complete projects.			
	EES 11	Take responsibility	for ones own actions, decisions, and consequences.			
Course Evaluation:	Satisfactory/Unsatisfactory & A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.					
Other Course Evaluation & Assessment Requirements:	Academic success is directly linked to attendance. Missing more than 1/3 of class hours in a semester shall result in an F grade for the course.					
Course Outcomes and Learning Objectives:	Course	Outcome 1	Learning Objectives for Course Outcome 1			
	quickly f	pate accurately and through a forested pe using mechanical ctronic navigation	1.1 Properly use a magnetic hand compass with declination set. 1.2 Properly use a GPS unit to locate field positions, mark locations and enter field coordinates.			
	Course	Outcome 2	Learning Objectives for Course Outcome 2			
	thinning	pare the effects of hardwood at various	2.1 Measure tree numbers, heights and diameters 2.2 Establish plots of a designated size and calculate # of trees/ha and volume of trees/ha.			

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Navigate accurately and quickly through a forested landscape using mechanical and electronic navigation aids.	1.1 Properly use a magnetic hand compass with declination set. 1.2 Properly use a GPS unit to locate field positions, mark locations and enter field coordinates.		
Course Outcome 2	Learning Objectives for Course Outcome 2		
2. Compare the effects of thinning hardwood regeneration at various spacing factors.	2.1 Measure tree numbers, heights and diameters 2.2 Establish plots of a designated size and calculate # of trees/ha and volume of trees/ha. 2.3 Understand the yellow birch crop tree thinning technique. 2.4 Implement a trial yellow birch crop tree plot.		
Course Outcome 3	Learning Objectives for Course Outcome 3		
3. Understand and be capable of using the shelterwood system for tree marking white pine stands.	3.1 Identify defects and diseases.3.2 Understand crop tree, crown spacing, bole spacing, etc.3.3 Recognize wildlife values important to maintaining a healthy forest.3.4 In teams, mark an area using the shelterwood system.		
Course Outcome 4	Learning Objectives for Course Outcome 4		
Complete a brushing or pre-commercial thinning exercise.	4.1 Mark crop trees to retain using crop tree criteria.4.2 Safely operate a brush saw following a safety tailboard.4.3 Audit the performance of other teams based on following guidelines provided.		

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	Course Outcome 5	Learning Objectives for Course Outcome 5		
	5. Carry out tree planting activities as required on an operational level.	5.1 Plant forest tree seedlings according to specified standards.5.2 Assess tree planting according to a specified format.5.3 Calculate payment of a tree plant operation.		
	Course Outcome 6	Learning Objectives for Course Outcome 6		
	6. Be able to follow instructions and work as part of a cooperative, productive team in the forest.	6.1 Demonstrate ability to organize and complete work in an efficient and timely manner. 6.2 Demonstrate the ability to work as part of a team. 6.3 Conduct all work in a manner that respects the safety of other crew members. 6.4 Wear all safety equipment (hardhat, safety boots) as required. 6.5 Recognize potential hazards while working in the forest and the steps that can be taken to minimize risks to crew members		
Date:	June 17, 2020			
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.			

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