



## COURSE OUTLINE: NRT248 - FOREST MNGMT PLAN

Prepared: Ngaire Roubal

Approved: Bob Chapman - Dean

<b>Course Code: Title</b>	NRT248: FOREST MANAGEMENT AND PLANNING
<b>Program Number: Name</b>	5230: FORESTRY TECHNICIAN
<b>Department:</b>	NATURAL RESOURCES PRG
<b>Academic Year:</b>	2025-2026
<b>Course Description:</b>	Students will learn about the forest management and planning process in Ontario including principles of sustainable forest management and how Ontario's forest policy provides for sustainability of resource use. Students will participate in practical field exercises, analyze a wide range of resource management issues, develop their own plan for a private woodlot. This course emphasizes the importance of policy, understanding how a forest technician contributes to the forest management planning process, and incorporates GIS applications.
<b>Total Credits:</b>	4
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	45
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Substitutes:</b>	NRT224
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>	<b>5230 - FORESTRY TECHNICIAN</b>
<b>Please refer to program web page for a complete listing of program outcomes where applicable.</b>	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 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 6 Identify and analyze forest diseases, pests, invasive species and other disturbance events and implement mitigation strategies to maintain and improve forest ecosystems.
	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.



	VLO 10	Develop strategies for ongoing professional development to enhance work performance in the forestry sector.
<b>Essential Employability Skills (EES) addressed in this course:</b>	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 3	Execute mathematical operations accurately.
	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 7	Analyze, evaluate, and apply relevant information from a variety of sources.
	EES 8	Show respect for the diverse opinions, values, belief systems, and contributions of others.
	EES 9	Interact with others in groups or teams that contribute to effective working relationships and the achievement 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.
<b>Course Evaluation:</b>	Passing Grade: 50%, D  A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.	
<b>Other Course Evaluation &amp; Assessment Requirements:</b>	Academic success is directly linked to attendance. Missing more that 1/3 of the course hours in a semester shall result in an `F` Grade for the course.	
<b>Books and Required Resources:</b>	A Guide to Stewardship Planning for Natural Areas, 2012 by MNRF  Forest Management Guide for Conserving Biodiversity at the Stand and Site Scales, 2010 by MNRF  Forest Management Guide for Great Lakes - St. Lawrence Landscapes, 2019 by MNRF  Forest Management Planning Manual for Ontario`s Crown Forests, 2020 by MNRF	
<b>Course Outcomes and Learning Objectives:</b>	<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
	1. Understand policy, concepts and terms of forest management planning.	1.1 Knowledge and understanding of applicable legislation, forest policy and guides. 1.2 Understanding of the key milestones of strategic planning in Ontario. 1.3 Understanding of the adaptive management approach to forest management planning. 1.4 Knowledge and understanding of the principles of sustainable forest management and how Ontario`s forest policy provides for sustainability.
	<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>

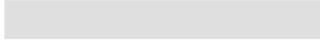
	<p>2. Understand and apply technical requirements of operational planning.</p>	<p>2.1 Knowledge and understanding of sizing water crossings.  2.2 Knowledge and understanding of selecting harvest areas.  2.3 Knowledge and understanding of planning forest access roads and aggregate pits.  2.4 Knowledge and understanding of renewal and maintenance.  2.5 Knowledge and understanding of Area of Concern prescriptions, Silvicultural Ground Rules, Conditions on Regular Operations.  2.6 Apply appropriate standards and best management practices based on the guides.</p>
	<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
	<p>3. Become familiar with the public consultation process.</p>	<p>3.1 Learn about Indigenous communities` approach to natural resource management and their interests and concerns in the forest management planning process.  3.2 Knowledge of how to identify key stakeholders involved in forest management planning.  3.3 Understand the process of public consultation in forests management planning.  3.4 Understand the engagement process and conflict resolution.</p>
	<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
	<p>4. Become familiar with Annual Report and Annual Work Schedule requirements.</p>	<p>4.1 Knowledge and understanding of the components of an Annual Report and Annual Work Schedule.  4.2 Knowledge and understanding of how to use operational maps.  4.3 Knowledge of how to locate and select areas for water crossings, aggregate pits, roads and harvest.  4.4 Knowledge of how to select appropriate areas for renewal and maintenance.  4.5 Understand how the annual report and annual work schedule fit into the adaptive management approach.</p>
	<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
	<p>5. Develop a Managed Forest Tax Incentive Program plan.</p>	<p>5.1 Understand the Managed Forest Tax Incentive Program.  5.2 Understand and communicate the components of a MFTIP plan including landowner objectives, values located on the property and the ten-year activity summary.  5.3 Create a MFTIP plan by analyzing supplied data or student collected field data.</p>

**Evaluation Process and Grading System:**

Evaluation Type	Evaluation Weight
Assignments	80%
Tests/quizzes	20%

**Date:** December 2, 2025

**Addendum:** Please refer to the course outline addendum on the Learning Management System for further

 information.

