

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ONTARIO



Sault College

COURSE OUTLINE

COURSE TITLE: Tree marking and scaling
CODE NO. : NRT 203 **SEMESTER:** 3
PROGRAM: FORESTRY TECHNICIAN
AUTHOR: MARK HARVEY
DATE: May 2009 **PREVIOUS OUTLINE DATED:** 2008
APPROVED: "B. Punch"

	CHAIR	DATE
TOTAL CREDITS:	3	
PREREQUISITE(S):		
HOURS/WEEK:	3	

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For additional information, please contact Brian Punch Chair
School of Natural Environment /Outdoor Studies & Technology Programs
(705) 759-2554, Ext.2681

I. COURSE DESCRIPTION:

Tree Marking and Scaling is design to introduce students to the basic concepts of wood measurement and tree marking . It will prepare students to meet provincial standards for operational tree marking in Ontario. Students taking this course may be eligible to be tested for provincial tree marking certification through a cooperative arrangement with the Ont. Min. of Nat. Res. The wood measurement portion of this course will be according to the Provincial Scaling Manual and will serve to introduce students to scaling concepts . Interested students may complete the provincial scaler's licence immediately upon graduation through Alqonguin college in Pembroke.

The provincial tree marking certification course and the scaling licence are not a part of this course and must be completed separately by interested students on their own at their own expense.

The natural resource department may assist in providing opportunities for students to be certified and licenced by the Ont. Min. of Nat. Res.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1 Understand and apply the silvicultural and management principles and . guidelines for tolerant hardwood stands in Ontario

- Potential Elements of the Performance
- List the silvical characteristics of tolerant hardwood species in Central Ontario
- Understand and identify timber and non timber values found in tolerant hardwood stands
- List the key objectives of and components of the tolerant hardwood tree marking program in Ontario
- Properly identify key information sources available to assist tree markers in tolerant hardwoods
- Identify, describe and compare key silvicultural systems used to manage hardwood stands

This will constitute 20%of the courses grade

2 Mark trees in tolerant hardwood stands according to provincial . standards

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Code No.Potential Elements of the Performance:

- Identify tree defects
- Identify stick nests, cavity trees and a wide range of other wildlife habitat values in tolerant hardwood stands
- Classify hardwood trees as AGS OR UGS
- Use a prism to make basal area determinations
- Mark trees according to a silvicultural prescription and provincial requirements
- Complete a prism and tree classification cruise of a tolerant hardwood stand and write a silvicultural prescription for tree marking .

This will constitute 30% of the courses grade

- 3 Understand and apply the silvicultural and management principles and guidelines for managing the white pine working group in Ontario

Potential Elements of the Performance:

- List the silvical characteristics of conifer species found in the white pine working group in Ontario
- Understand and identify the timber and non timber values found in the white pine working group
- List the key objectives of and components of the white pine tree marking program in Ontario
- Properly identify key information sources available to assist tree markers for the white pine working group.
- Identify, describe and compare key silvicultural systems used to manage the white pine working group

This will constitute 20% of the courses grade

- 4 Mark trees in white pine stands according to and provincial standard

Potential Elements of the Performance:

- Identify tree defects
- identify stick nests, cavity trees and other wildlife habitat values
- Classify trees as AGS or UGS
- Using regeneration cut , uniform shelterwood specifications select crop trees, space and mark trees using % spacing factor and crown spacing as a guide.
- Mark trees according to silvicultural prescriptions and provincial standards.

This will constitute 20% of the courses grade

- 5, Measure wood according to the Crown Forest Sustainability Act and the provincial “Manual of Scaling Instructions”

Potential Elements of the Performance

- List provincial scaler’s qualifications
 - Measure wood using the cubic method
 - Measure wood using the stacked wood method
 - Measure wood using the cube-grade method
 - Describe the mass scaling method
 - Identify up to 25 commercial tree species using logs
- This will constitute 10% of the courses grade

III. TOPICS

- 1, ecology, silviculture and management of tolerant hardwood stands
- 2, ecology, silviculture and management of white pine stands
- 3, AGS, UGS and defect classification
- 4 tree marking for wildlife and habitat values
- 5, marking hardwood stands field trips to Dennis TWP
- 6, marking white pine stands field trips to Wells TWP
- 7, wood measurement calculations
- 8, commercial tree species log identification

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IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

- 1, Provincial Tree Marking Guide 2004 OMNR VERSION 1.1
- 2, Forest Raptors, Their Nests in Central Ontario

Resource materials supplied by the college

- 1, A Silvicultural Guide for the Tolerant Hardwood Forest in Ontario
- 2, A Silvicultural Guide to Managing Southern Ontario Forests
- 3, Scaling manual
- 4, A Silviculture Guide for the Great Lakes –St. Lawrence Conifer Forest in Ontario

V. EVALUATION PROCESS/GRADING SYSTEM:

The following semester grades will be assigned to students in post secondary courses:

1, hardwood tree marking practical	15%
2, pine tree marking practical	15
3, defects quiz	5
4, defects test	10
5, tree marking written test	30
6, log identification test & scaling	10
7, cruise and prescription	<u>15</u>
	100%

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 - 89%	4.00
B	70 - 79%	3.00
C	60 - 69%	2.00
D	50 - 59%	1.00
F (Fail)	49% or below	0.00
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject areas.	
U	Unsatisfactory achievement in field/clinical placement or non- graded	

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	subject area
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course
NR	Grade not reported to Registrar's office.
W	Student has withdrawn from the course without penalty

SPECIAL NOTES:Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other postsecondary institutions.

Prior Learning Assessment:

Students who wish to apply for advance credit transfer (advanced standing) should obtain an Application for Advance Credit from the program coordinator (or the course coordinator regarding a general education transfer request) or academic assistant. Students will be required to provide an unofficial transcript and course outline related to the course in question. Please refer to the Student Academic Calendar of Events for the deadline date by which application must be made for advance standing.

Credit for prior learning will also be given upon successful completion of a challenge exam or portfolio.

Substitute course information is available in the Registrar's office.

Disability Services:

If you are a student with a disability (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Disability Services office. Visit Room E1101 or call Extension 2703 so that support services can be arranged for you.

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Code No.Communication:

The College considers **WebCT/LMS** as the primary channel of communication for each course. Regularly checking this software platform is critical as it will keep you directly connected with faculty and current course information. Success in this course may be directly related to your willingness to take advantage of the **Learning Management System** communication tool.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Code of Conduct*. A professor/instructor may assign a sanction as defined below, or make recommendations to the Academic Chair for disposition of the matter. The professor/instructor may (i) issue a verbal reprimand, (ii) make an assignment of a lower grade with explanation, (iii) require additional academic assignments and issue a lower grade upon completion to the maximum grade “C”, (iv) make an automatic assignment of a failing grade, (v) recommend to the Chair dismissal from the course with the assignment of a failing grade. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Student Portal:

The Sault College portal allows you to view all your student information in one place. **mysaultcollege** gives you personalized access to online resources seven days a week from your home or school computer. Single log-in access allows you to see your personal and financial information, timetable, grades, records of achievement, unofficial transcript, and outstanding obligations, in addition to announcements, news, academic calendar of events, class cancellations, your learning management system (LMS), and much more. Go to <https://my.saultcollege.ca>.

Electronic Devices in the Classroom:

Students who wish to use electronic devices in the classroom will seek permission of the faculty member before proceeding to record instruction. With the exception of issues related to accommodations of disability, the decision to approve or refuse the request is the responsibility of the faculty member. Recorded classroom instruction will be used only for personal use and will not be used for any other purpose. Recorded classroom instruction will be destroyed at the end of the course. To ensure this, the student is required to return all copies of recorded material to the faculty member by the last day of class in the semester. Where the use of an electronic device has been approved, the student agrees that materials recorded are for his/her use only, are not for distribution, and are the sole property of the College.

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Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session.

It is the departmental policy that once the classroom door has been closed, the learning process has begun. Late arrivers may not be granted admission to the room.

Tuition Default:

Students who have defaulted on the payment of tuition (tuition has not been paid in full, payments were not deferred or payment plan not honoured) as of the first week of *November* will be removed from placement and clinical activities. This may result in loss of mandatory hours or incomplete course work. Sault College will not be responsible for incomplete hours or outcomes that are not achieved or any other academic requirement not met as of the result of tuition default.

Students are encouraged to communicate with Financial Services with regard to the status of their tuition prior to this deadline to ensure that their financial status does not interfere with academic progress.

Classes will start exactly on time according to the class schedule.

Students who are late for class and as a result miss a field trip will be expected to complete the work on their own at their own expense.

There are no scheduled rewrite exams or tests in this course.

Students are expected to use college provided transportation to attend field trips

Overlap in scheduling with other courses is not permitted

Students must attend 80% or more of the scheduled class time to receive a D grade or higher in the course.

Outdoor field trips are scheduled classes.

Students must wear safety equipment while in the field unless the instructor indicates it is not required. Safety equipment includes as a minimum safety boots, hard hat and high visibility vest. The instructor may insist that additional safety equipment be used depending on conditions.

Students are expected to attend all classes. Students may be exempt from completing tests and assignments for compassionate/health reasons at the discretion of the course professor. Hunting, visiting friends and relatives and assisting in the teaching or instruction of courses taught by the college or other forms of employment are not acceptable reasons for missing classes. Students who choose to miss class for unacceptable reasons should expect this to affect their final grade.

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