
COURSE NAME

CODE NO.

I. COURSE DESCRIPTION:

Surveys and Assessments play an important role in monitoring the status of forest resources as well as evaluating the success of silvicultural projects. The procedures for carrying out many types of surveys and assessments will be explained in this course. Many of the surveys explained indoors will then be carried out under field conditions to demonstrate their practical application.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Explain why accurate forest surveys are critically important to the practice of Sustainable Forestry in Ontario

Potential Elements of the Performance:

- outline legislation
- describe responsibilities for Compliance Monitoring in forest management and outline the process involved in its implementation
- discuss the essential characteristics of a well conducted assessment or survey

This learning outcome will represent 10% of the course grade.

2. Carry out forest surveys to evaluate the quality of silvicultural treatments

Potential Elements of the Performance

- Evaluate tree planting quality using planting quality surveys
- Be able to identify planting quality faults
- Lay out a tree plant-sampling pattern to evaluate planting quality
- Calculate payment rates to contractors based on planting quality
- Carry out and compile a survey of the quality of trees planted at fall field camp
- Carry out a plantation thinning survey to evaluate the need for a thinning treatment

This learning outcome will represent 15% of the course grade.

COURSE NAME

CODE NO.

3. Determine how successfully an area is regenerating to suitable tree species.

Potential Elements of the Performance:

- describe the features of a regeneration survey and a Free to Grow survey
- carry out and compile a regeneration survey using Free-growing regeneration assessment procedures

This learning outcome will represent 15% of the course grade.

4. Explain how to minimize site disturbance on sensitive sites in the Great Lakes St. Lawrence (GLSL) forest region.

Potential Elements of the Performance

- describe the characteristics of six main types of sensitive sites in the GLSL.
- Describe legislation, procedures and guidelines that apply to the protection of sensitive sites
- Recognise signs of the 5 main types of site disturbance in the GLSL region
- Explain the factors which affect the sensitivity of sites
- Explain strategies, techniques and equipment which can be used to minimize and mitigate site disturbance
- Assess the level of site damage on an area of recently harvested forest

This learning outcome will represent 20% of the course grade.

5. Demonstrate the ability to carry out forest surveys and assessments using Electronic Data Recorders

Potential Elements of the Performance

- use STARS software loaded onto DAP 9000 hand-held computers to evaluate regeneration success
- collect forest inventory data using TCM/Pam software

This learning outcome will represent 10% of the course grade.

6. Complete a Pre-harvest Silvicultural Prescription to evaluate the characteristics of any area and to recommend ways it should be harvested and regenerated

COURSE NAME

CODE NO.

Potential Elements of the Performance

For an area which you have been assigned:

- complete a site evaluation
- complete a harvesting plan
- prepare a forest renewal prescription

This learning outcome will represent **15%** of the course grade.

7. Carry out inventories of forest lands to the standards of accuracy required for a variety of natural resource research projects

Potential Elements of the Performance

- Describe a Ontario Living Legacy project (NEBIE) to survey lands managed under a range of intensities
- remeasure permanent sample plots, established to evaluate forest growth

This learning outcome will represent 15% of the course grade.

III. Topics:

1. Introduction to compliance monitoring, surveys and assessments
2. Tree Planting quality assessments
3. Plantation thinning surveys
4. Regeneration and Free To Grow surveys
5. Measuring Permanent Sample Plots
6. Evaluating Site Disturbance
7. Pre-Harvest Silvicultural Prescriptions
8. The NEBIE project

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

COURSE NAME

CODE NO.

Survey procedures, tally sheets and some background material will be provided by the professor. Additional references related to each topic will be listed at the end of each lesson throughout the semester.

V. EVALUATION PROCESS/GRADING SYSTEM

Assignments 50%

- surveys carried out in the field 40%,

- lab assignments and quizzes 10%

-

Tests (3) 50%

- Test 1 will be scheduled for late October

- Test 2 will be open book and based on the site disturbance topic

- Test 2 will be held at the conclusion of the course

- You will be advised of the exact test date, in class, at least 1 week prior to the test

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

Grade Point

 COURSE NAME

 CODE NO.

<u>Grade</u>	<u>Definition</u>	<u>Equivalent</u>
A+	90 - 100%	4.00
A	80 - 89%	3.75
B	70 - 79%	3.00
C	60 - 69%	2.00
F(Fail)	59% 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 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 academic penalty	

VI. SPECIAL NOTES:

A province wide site disturbance training program has been developed by the MNR to develop the knowledge and skills needed by forest planners, operators and compliance staff in a consistent way province wide. Your instructor is certified to teach, evaluate and certify students who demonstrate knowledge of this material. Forest Practice Competency Partnership site disturbance training participation certificates, issued by the OMNR, will be given to students who pass this module of the course.

Special Needs

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities), you are encouraged to discuss required accommodations with the instructor and/or contact the Special Needs Office, Room E1204, Ext. 493 so that support services can be arranged for you.

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 post-secondary institutions.

COURSE NAME

CODE NO.

Plagiarism

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty up to and including expulsion from the course/program, as may be decided by the professor/dean. 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.

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

Substitute Course Information is available at the Registrar’s Office.

Several field exercises will be carried out in this course, representing a majority of assignment marks. You will be informed in class 1 week ahead of time when fieldwork is scheduled and are expected to attend.

You are responsible for attending all classes and will receive a 0 grade for any assignment missed during an absence regardless of reason.

VII. PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS

Students who wish to apply for direct credit transfer (advance standing) should obtain a direct credit transfer form from the Dean’s secretary. Students will be required to provide a transcript and course outline related to the course in question.