

SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON



COURSE OUTLINE

COURSE TITLE: TREES AND SHRUBS

CODE NO.: NRT102 SEMESTER: 1

**PROGRAMS: FORESTRY, PARKS & OUTDOOR RECREATION,
FISH & WILDLIFE, ABORIGINAL RESOURCE
TECHNICIAN**

AUTHOR: DON HALL

DATE: JUNE 2000 PREVIOUS OUTLINE DATED: JAN 1999

APPROVED: _____
DEAN DATE

TOTAL CREDITS: 3 PREREQUISITE(S): None

LENGTH OF COURSE: 3 hrs/week X 16 weeks

TOTAL CREDIT HOURS: 48

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*For additional information, please contact Joe Fruchter, Dean,
Business & Hospitality, Centre of Specialization for Natural Resources,
(705) 759-2554, Ext. 688*

I. COURSE DESCRIPTION:

A systematic study of structural characteristics of trees and shrubs, the identification of Canadian species by leaf features, their relationships to one another and a recognition of their dynamic role in forest ecology. Coniferous species will be studied in considerable detail including twig, bark and growth characteristics. After successfully completing this course, students should be able to recognize all Northern Ontario, and many Southern Ontario trees when they are in the leafy condition.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Identify in the summer condition, all trees and shrubs commonly encountered in northern Ontario woodlands.

Potential Elements of the Performance

- for a particular tree or shrub:
 - assess features including leaves, bark, silhouette, and ecological associations
 - determine which features are best applied to the identification task at hand
 - apply knowledge of and experience with key features to correctly identify the tree or shrub
- correctly spell common names of all trees and shrubs commonly encountered in northern Ontario woodlands
- associate common names with Latin names for all trees and shrubs commonly encountered in northern Ontario woodlands

This learning outcome will count for approximately 65% of the final mark

2. Associate all native northern Ontario trees (and some shrubs) with silvical characteristics such as longevity, shade tolerance, site requirements and range in Canada.

This learning outcome will count for approximately 20% of the final mark

3. Identify, collect, press and mount leaves of 22 deciduous trees and shrubs commonly encountered in northern Ontario.

Potential Elements of the Performance

- using appropriate books, identify trees in the field
- collect representative leaves from each species identified
- using a press of the students own design, dry leaves in a manner that prevents discoloration and preserves the original shape of the leaf
- neatly mount and label pressed leaves

This learning outcome will count for approximately 10% of the final mark

4. Identify the leaves of trees and shrubs most commonly encountered in southern Ontario woodlands and urban areas.

Potential Elements of the Performance

- for a particular leaf:
 - assess features including color, outline, texture, venation and size
 - determine which features are best applied to the identification task at hand
 - apply knowledge of and experience with key features to correctly identify the leaf
- correctly spell common names of trees and shrubs most commonly encountered in southern Ontario woodlands and urban areas.

This learning outcome will count for approximately 5% of the final mark

5. Identify, using Latin names, foliage of Ontario commercial tree species to 90% accuracy

Potential Elements of the Performance

- for a particular foliage sample:
 - assess features including color, outline, texture, venation and size
 - determine which features are best applied to the identification task at hand
 - apply knowledge of and experience with key features to correctly identify the foliage
- correctly spell Latin names of Ontario commercial tree species

This learning outcome must be achieved in order to pass the course.

III. TOPICS:

Note: These topics will not necessarily be explored as isolated learning units, or in the order presented below:

1. Identification of trees and shrubs commonly encountered in northern Ontario
2. Collection, pressing, mounting and labeling of leaves
3. Aesthetic, cultural and historical values of Ontario trees and shrubs
4. Key features of the leaves of trees and shrubs most commonly encountered in southern Ontario woodlands and urban areas
5. Silvical characteristics of native northern Ontario trees and shrubs

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

1. Farrar, J.L. 1995. Trees in Canada, Canadian Forestry Service. 502 pp.
2. Hall, Don 1999. NRT102 Trees and Herbaceous Plants Study Guide (available in bookstore)
3. Trees and Shrubs, NRT102 Study Guide, for Distance Education delivery, School of Natural Resources, Sault College, 159pp.
4. Hardhat, Safety Boots.
5. Hand Lens (available in bookstore)

V. EVALUATION PROCESS/GRADING SYSTEM:

Tree and Shrub Identification Tests	65%.
Leaf Collection	10%
Attendance, Participation and Assignments	5%
Lecture Tests	20%
Total	100%

Grading System

A+	Consistently Outstanding	(95% - 100%)
A	Outstanding Achievement	(90% - 95%)
B	Consistently Above Average Achievement	(80% - 90%)
C	Satisfactory or Acceptable Achievement in all areas subject to assessment	(70% - 80%)
R	Repeat - The student has not achieved the objectives of the course and the course must be repeated	(Less than 70%)
CR	Credit Exemption	
X	A temporary grade, limited to situations with extenuating circumstances, giving student additional time to complete course requirements	

Notes:

- Students should plan on identification tests (either in lab or in the field) virtually every week.
- Students may be assigned an "R" grade early in the course for unsatisfactory performance.
- The 70% passing level is in accordance with governmental and industrial standards.
- Hard hats must be worn on all field trips
- All assignments must be prepared using a word processor. Handwritten assignments will not be accepted
- Bus or van transportation is provided for all field trips away from the main campus. Use of personal vehicles on field trips will only be allowed with the written permission of the instructor. Excepting those with written permission, students who do not travel on the bus or van will not be allowed to participate in field activities, or write field tests.
- Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.
- If a class is missed for a good reason, it is important that the student promptly discuss the absence with his/her instructor. If the absence is not explained within a reasonable period of time (typically one week), the student will receive a grade of zero for any tests missed, and may lose attendance marks as well.
- At the instructor's discretion, a rewrite test may be allowed for students combining participation and good attendance with a final mark in the 60 - 70% range. Rewrites will normally consist of a single test (both identification and written material) covering the whole year's work. The highest grade achievable on a rewrite test is "C".

VI. SPECIAL NOTES:Special Needs

If you are a student with special needs (eg. 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, 717, 491 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.

Plagiarism

Students should refer to the definition of "academic dishonesty" in the "Statement of 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, as may be decided by the professor.

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

VII. PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the instructor.