SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: DESCRIPTIVE DENDROLOGY (WINTER)

Code No.: FOR 102-4

Program: FORESTRY

Semester: 1

Date: DECEMBER, 1988

Author: MARK HARVEY

New: _____   Revision: ___X___

APPROVED: _____   Nov 30/88
             Chairperson   Date

CALENDAR DESCRIPTION

DESCRIPTIVE DENDROLOGY	FOR 102-4
Course Name	Course Number

PHILOSOPHY/GOALS:

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. Particular attention will be given to the silvical characteristics of coniferous tree species on their importance to the Canadian forest industry.

Coniferous species will be looked at in considerable detail including twig bark and growth characteristics.

After successfully completing this course, students should be able to recognize all Ontario commercial tree species when trees are in the leafy condition as well as a considerable number of less important species.

METHOD OF ASSESSMENT (GRADING):

Tree Ident:
60%
There will be 7 identification tests. Only the best 6 tests will be recorded. A student may miss one test without penalty.

A+ 90% - 100%
A 80% - 89%
B 70% - 79%
C 60% - 69%

Silvics
Presentation: 10%

Lecture tests:
Test #1 - 15%
Test #2 - 15%
30%

A+ 90% - 100%
A 80% - 89%
B 70% - 79%
C 60% - 69%

Note:
Students will be required to make a leaf collection. This will be completed during the summer months and submitted for grading as part of FOR 107 for the Fall semester, 1989.

TEXTBOOK(S):

Hosie, R.C., 1979. <u>Native Trees of Canada</u>, 8th. ed, Canadian Forestry
Service, 380 pp.

White, J.H., 1980. 7th ed., <u>The Forest Trees of Ontario</u>, M.N.R., 114 pp.

SPECIFIC OBJECTIVES	TECHNICIAN COMPETENCY BENCHMARK
Construct a dichotomous key for the identification of seven predetermined tree species.	2967.04
Describe physiological functions of tree tissue, such as: buds, roots, leaves, bark and wood.	2968.02
Describe physiological processes such as: tropisms and sprouting.	2968.02
Explain derivation and use of scientific names for the flora.	2970.01
Explain history and use of plant classification systems.	2968.02
Compare and contrast flowers and fruit under the following headings: Features, Types and Functions.	2968.02
List silvical characteristics common to coniferous species.	2968.02
Identify, locate and describe major forest regions, and list the major tree species of each.	2968.02
Describe silvical characteristics of major, Western Canadian tree species.	2968.02
Identify the following twenty commercially important tree species in the leafy condition:	2970.01

Ce	Ew	Po	Bd	Bf	Mh	Ms	Ta	Aw	Ab	Or
	Ow	He	Pj	Pr	Pw	Sb	Sw	Bw	By	

SPECIFIC OBJECTIVES	TECHNICIAN COMPETENCY BENCHMARK
Given the scientific name for twenty commercially important tree species, write the common name.	2970.01
Given the common name for twenty tree species, write the accepted species abbreviations.	2967.04
Identification, collection, and preservation of neatly labelled dendrology specimens will be demonstrated by submission of a leaf collection of twenty predetermined species of tree leaves.	2970.01 2967.04
Identify up to fifty-five deciduous tree and shrub species by leaf, and up to twenty-five coniferous species by leaf, twig and fruit.	2970.01 2967.04