SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title:	Descriptive Dendrology		
Code No.:	FOR 102-4		
Program:	Forestry	ontitron as well as a considerable much	
Semester:	1	CONTRACTOR THE PROPERTY OF THE	
Date:	June, 1983	Press to XOL - should trad	
Author:	Derroll Mun	phy	
ADDROVED	How. be	New: Revision:X	
APPROVED:	Chairperson	Date	

CALENDAR DESCRIPTION

Descriptive Dendrology
Course Name

FOR 102-4 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.

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 METHOD):

Tree Ident: Deciduous - 40% of mark accumulative lab and field Conjferous 20% of mark tests.

A 90% B 80% C 70%

Lecture collection: A-85% B-70% C-50% 10% of mark

Lecture tests: 2 tests - 20% of mark

A 85% B 70% C 55%

Key Construction Descriptive sheets Drawings - 10% of mark

TEXTBOOK(S):

Hosie, R.C., 1979. Native Trees of Canada, 8th. ed, Canadian Forestry Service, 380 pp. White, J.H., 1980. 7th ed., The Forest Trees of Ontario, M.N.R., 114 pp.

SPECIFIC OBJECTIVES

Identify as to species by sight, without text or guide, within the allotted time a progressively increasing number of tree and shrub specimens to a maximum of 80. Tests will be frequent and accumulative using plant specimen material in the lab or living specimens in the field.

The ability to identify, collect, preserve, and neatly label dendrology specimens will be demonstrated by submission of a leaf collection to meet the required specifications, standards, and deadline set by the instructor.

The student will be required to achieve 60% on tests which cover lecture material. This will include terminology, construction of a key, nomenclature, classification, botanical features of tree flowers and fruit, and silvics of major western species.

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DESCRIPTIVE DENDROLOGY

FOR 102-4

LABS

Topic No.	Periods	Topic Description	References
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3	3	Beech Linden and Olive Family -identifying with a key, 8 species -descriptive sheets -short field trip	s
4	3	Rose Family -identification of 7 species -descriptive sheets -outside test	
5	3	Willow or Poplar Family -identification of 8 species -descriptive sheets -drawings	
6	3	Walnut and Elm Families -identification of 7 species -descriptive sheets -drawings	
7	3	Shrubs -identification of 11 shrubs -wildlife uses -descriptive sheets	
8	3	Pines -identification of 4 species -drawings, foliage and fruit	
9	3	Spruce -identification of 5 species -descriptive sheets -field trip	

DESCRIPTIVE DENDROLOGY

FOR 102-4

LABS

Topic No.	Periods	Topic Description	Reference	es
10	3 froellecti	Fir and Cedar -identification of 4 species -descriptive sheets -field trip		
11	3	Larch and Hemlock -identification of 3 species -descriptive sheets -field test		
12	3	Field Trip -review of conifers -major outside test		
13	3 and a	Western Pines -identification of 5 species -comparison with eastern pines -descriptive sheets		
14	3	Western Spruce, Fir, Hemlock and (-identification of 6 species -descriptive sheets	Cedar	
15	3	Miscellaneous Species -a look at approximately 20 species -southern and exotic	cies	

DESCRIPTIVE DENDROLOGY FOR 102-4 LECTURES

Topic No.	Periods	Topic Description	References
1	1	Course Outline -Explanations of handouts, leaf col marking, etc.	lection,
2	2	Keys -construction and use of keys	11
3	1	Nomenclature -why and how species are named	
4	1	Classification of plants -history and use of classification	12
5	1	Flowers and Fruit -details on species studied in labs	EI
6	1	Conifers -botanical features of Pinaceae fam	nily
7	2	Forest Regions -8 regions -local sections	14
8	1 astono	Movie -Tree Portraits -Boreal Forests	51
9	2	Silvics -silvics of major western species	