

CAMBRIAN COLLEGE
of Applied Arts and Technology
Sault Ste. Marie

COURSE OUTLINE

SILVICULTURE

FOR 202-3



SILVICULTURE

TOPIC NO.	PERIODS	TOPIC DESCRIPTION
1	3	<p><u>Introduction</u></p> <p>Definition of silviculture as the art and science of cultivating forest crops; basic principles and objectives; glossary of terms.</p>
2	1	<p><u>Silvics I</u></p> <p>Definition of silvics as the scientific basis for managing forest crops - the "why" of silviculture; introduction to the topic.</p>
3	19	<p><u>Silvics II</u></p> <p>Forest site classification - factors and factor complexes affecting site; systems of site classification developed in Ontario by Hills, Losee, Locate and Brown. Includes a field trip to see Locate's survey area in Goulais Valley.</p>
4	7	<p><u>Silvics III</u></p> <p>Site analysis including two field exercises - three methods of analysis - rate of growth, physical factors and vegetation. Students then make use of all three methods (1) to assess recent plantations of nursery stock and tubelings (2) to assess a spruce bog site and a pine sand plain site within four chains of each other.</p>
5	10	<p><u>Silvics IV</u></p> <p>Relationships between trees within stands - a study of tree density in relation to silviculture development of stands; use of basal area to express density; - concept of tolerance and tolerance tables; - crown classification systems.</p>
6	8	<p><u>Silvics Applied</u></p> <p>Instant silviculture - Christmass Tree crops - including a field trip to a private tree farm. Use of silvics as a basis for Wildlife Management.</p>