

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: SILVICULTURE

Code No.: FOR 200-4

Program: FORESTRY TECHNICIAN


Semester: THREE

Date: AUGUST, 1988

Author: BOB CURRELL

New: _____ Revision: x

APPROVED:


Chairperson

July 25/88
Date

CALENDAR DESCRIPTION

SILVICULTURE

FOR 200-4

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS: A study of silviculture and its place in forestry. The emphasis of the course will be to study the forest once it has been harvested, specifically it will deal with the techniques available to grow a new forest crop.

After completing the course, student will be able to participate effectively in silvicultural operations and plan work, select tools and instruct unspecialized forestry crews.

METHOD OF ASSESSMENT (GRADING METHOD):

- 10% Dendrology Test (trees, shrubs & silviculturally significant plants)
- 10% Technical Report (assigned mid-October)
- 20% Lab Exercises
- 60% Unit Tests (3) following each unit
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- 100%

COURSE GUIDELINES

No absences from field trips or tests will be permitted unless professional documentation is received (doctor's note).

Field trips and tests will be announced one week in advance.

Suitable classroom manners will be the rule, e.g., no obscene language, talking during class or class disruptions. Failure to observe this rule will result in ejection from class for the balance of the day.

Students will arrive at class on time. No one will be admitted to class once it has begun, i.e., teacher has started talking.

Anyone found cheating on tests or plagiarizing technical reports will receive a 0 mark for that test or assignment.

No notes in the testing room during tests.

Students receiving less than 60% overall (at term end) will be required to write a rewrite test covering the entire term's course material.

REFERENCES:

Ontario Ministry of Natural Resources (Ontario Tree Improvement and Forest Biomass Institute), 1983. Field Guide to Forest Ecosystem Classification.

Ontario Ministry of Natural Resources. Silvicultural Equipment Reference for 1. Southern Ontario 2. Northern Ontario.

Ontario Ministry of Natural Resources. Silvicultural Guides (Black Spruce, Aspen, Tolerant Hardwoods, White Pine, Hybrid Poplar).

Ontario Ministry of Natural Resources, 1987. Field Guide for Describing Forest Soils and Forest Soil Productivity in North-Eastern Ontario.

OTHER REFERENCES AVAILABLE IN COLLEGE LIBRARY.

TEXTBOOK: Silviculture Lab Manual
1988 Edition

Site Preparation: Methods of preparing clear-cut lands for subsequent regeneration.	3968.04	
Biological, chemical, and prescribed burning and techniques will be examined.	3968.12	
Tree Seed: Forecasting, collecting and extracting tree seeds.	3968.03	
Regeneration Treatment: Including planting and aerial seeding.	3968.02	
Forest Nurseries	3968.11	
Tending the New Forest: Mechanical and chemical treatments.	3968.10	
Tree Improvement: Discussion of common tree improvement techniques including seed orchards and vegetative propagation.	3968.06	
Tolerant Hardwood Management (11 time permits)		

TOPIC NO.	TECHNICIAN COMPETENCY BENCHMARK	TOPIC DESCRIPTION
UNIT 1		
1		Introduction to Silviculture
2	2968.2	Harvesting Systems
3	2968.08 2967.04 2967.06	Regeneration Surveys: Methods of Assessing Regeneration on Forest Land
4	2968.02	Site Classification: Methods of classifying the productivity of forest sites with specific reference to the FEC and FLAPs system
UNIT 2		
5	2968.04 2968.12 2970.03	Site Preparation: Methods of preparing cutover lands for subsequent regeneration. Mechanical, chemical, and prescribed burning and techniques will be examined.
UNIT 3		
6	2968.03	Tree Seed: forecasting, collecting and extracting tree seed.
7	2968.02 2968.12 2968.11	Regeneration Treatments including planting and aerial seeding
8	2968.04	Forest Nurseries
9	2968.10	Tending the New Forest: mechanical and chemical treatments
10	2968.06	Tree Improvement: discussion of common tree improvement techniques including seed orchards, and vegetative propagation.
11		Tolerant Hardwood Management (if time permits)