

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: SILVICULTURE

Code No.: FOR 200-4

Program: FORESTRY TECHNICIAN

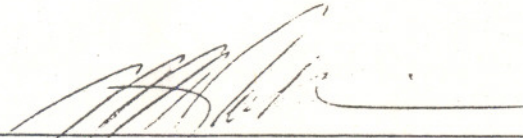
Semester: THREE

Date: JULY 11, 1985

Author: BOB CURRELL

New: _____ Revision: x

APPROVED:


Chairperson


Date

COLLEGE OF APPLIED ARTS & TECHNOLOGY

8401 ST. MARIE, ONTARIO

COURSE OUTLINE

REVISIONS

FOR 200-2

POSSIBLE TYPING

THREE

JULY 11, 1982

POB CURRIE

REVISIONS

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
- 30% Lab Exercises
- 25% Mid-term Test
- 25% Final Test

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).

OTHER REFERENCES AVAILABLE IN COLLEGE LIBRARY.

COURSE DESCRIPTION

FOR 200-4

AGRICULTURE

COURSE NUMBER

COURSE NAME

PHYSIOLOGY: A study of physiological and its place in forestry. The emphasis of the course will be to study the forest once it has been established, especially its 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 sites and manage specialized forestry crews.

METHOD OF ASSESSMENT (GRADING METHOD):

- 100: Technology Test (trees, shrubs & silviculturally significant plants)
- 101: Technical Report
- 102: Lab Exercises
- 103: Mid-term Test
- 104: Final Test

Ontario Ministry of Natural Resources: Ontario Tree Improvement and Forest Research Institute, 1981. Field Guide to Forest Ecosystems

Ontario Ministry of Natural Resources, Silvicultural Guidelines Manual Reference 7011, Northern Ontario, Northern Ontario.

Ontario Ministry of Natural Resources, Silvicultural Guidelines Manual Reference 7011, Northern Ontario, Northern Ontario.

OTHER REFERENCES AVAILABLE IN COLLEGE LIBRARY.

TOPIC NO.	TECHNICIAN COMPETENCY BENCHMARK	TOPIC DESCRIPTION
1		Introduction to Silviculture
2	2968.2	Harvesting Systems; boreal and Great Lakes - St. Lawrence
3	2967.04 2970.02	Crown Timber Act. Cut inspections (Wasteful practices regulations)
4	2968.02	Site Classification. Methods of identifying and classifying forest sites with specific reference to the forest ecosystem classification system
5	2968.08 2967.04 2967.06	Regeneration Surveys. Methods of assessing regeneration on forest forest land
6	2968.04 2968.12 2970.03	Site preparation. Methods of preparing cutover lands for subsequent regeneration. Mechanical, chemical and prescribed burning will be studied
7	2968.02 2968.12 2968.11	Regeneration treatments - prescribing regeneration treatments, carrying out regeneration treatments
8	2968.10	Tending the regenerated forest: thinning, weeding; mechanical and chemical treatments (Marking, pruning)

TOPIC NO.	TECHNICIAN COMPETENCY BENCHMARK	TOPIC DESCRIPTION
9	2968.03	Tree seed: provenance and site region, forecasting seed requirements, evaluating seed crops. Discussion of various collection methods and collection areas
10	2968.04	Nurseries: producing, planting stock; discussion of nursery stock types and their uses, nursery cultural practices
11	2968.06	Tree Improvement: discussion of common tree improvement techniques including seed production and seed orchards. Discussion of the hybrid poplar program in Ontario.