

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

FALL CAMP - FIRST YEAR

COURSE TITLE: _____

CODE NO.: FOR118-2 SEMESTER: 1

PROGRAM: FORESTRY TECHNICIAN

AUTHOR: STAN FISCHER

DATE: JULY 1993 PREVIOUS OUTLINE DATED: DECEMBER 1991

APPROVED: *[Signature]* DEAN *[Signature]* DATE July 21/1993



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TOTAL CREDIT HOURS: 32

PREREQUISITE(S): None

I. PHILOSOPHY/GOALS:

The field exercises are designed to ensure student competency in dendrology, tree planting, emergency first aid, small engine maintenance, compassing and pacing and basic meteorology. Students will also be exposed to various wildlife habitats and round wood processing.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course the student will be able to:

1. Understand cause/effect relationships that produce weather phenomena and recognize meteorological instruments used in the assessment and measurement of weather/climate.
2. Possess a valid first aid certificate (minimum "Standard First Aid").
3. Demonstrate the ability to plant bare root and/or containerized (paperpot) trees.
4. Be familiar with small engine basics, related to troubleshooting, maintenance and operation.
5. Maintain accuracy in pacing + 5% and compassing + 6%.
6. Review tree and plant identification, emphasizing leaf, twig and bark features; examine different communities in the forest for species composition, succession and wildlife use, and compare suitability of different communities for moose and/or deer and small game habitats.
7. Observe how roundwood is converted into a manufactured product (wood to fiber or dimension products), and gain an insight into the operation and magnitude of the pulp and paper industry.
8. Will have an appreciation of the operation of a Provincial fish hatchery.
9. Will be introduced to MNR's role in natural resource management.
10. Will recognize the contribution the Provincial Air Service has made to the protection of our provinces resources.
11. Will understand the role of 2 of the Saults residence resource research groups, O.F.R.I. (Ontario Forest Research Institute) and G.L.F.C. (Great Lakes Forestry Centre).

III. TOPICS TO BE COVERED:

1. Meteorology
2. First Aid
3. Planting
4. Small Engines
5. Mensuration

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IV. LEARNING ACTIVITIES:

Meteorology

A short presentation on practical meteorology will assist the student in recognizing the signs of weather changes especially those that may affect field operations and the local effects of topography and water bodies. The course will also assist the student in understanding weather forecasts and maps.

First Aid

The Standard First Aid course will be taught.

Planting:

The student must plant a minimum of 25 trees of either bare root or containerized seedlings, but preferably a combination. MNR standards with respect to depth, root exposure, stem angle, tree stability and spacing should be observed.

Small Engines:

Lecture topics include:

- Types - Diesel and Gas
- Operation - Start, warm-up, run, shutdown
- Maintenance - for trouble-free operation and long life
- Trouble-shooting - e.g. Check for spark, flooding
- Emergency repair - e.g. Repair and rewind
- Small engine systems including:
 - Ignition - Battery, magneto
 - Fuel - Shut-offs, filters, lines
 - Air - Dry, moist and oil filter types
 - Cooling - Air vs. liquid cooled
 - Starting - Rope start, rewinds, electric start

Mensuration:

Each student will be required to:

1. Pace a distance of 500 m to an accuracy of +5%. A student must pass this before attempting the compass-pace test.
2. Compass and pace a triangular course 500 m to a side to an accuracy of +6%.

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Exercise:

The instructor will select 3 or 4 areas of forest for the student to walk through and identify all tree and plant species previously studied.

Where possible, these study areas should include:

- A. A wetland (Bog, fen, swamp or marsh).
- B. An area of moose habitat including:
 - a) Spring/Summer range
 - b) Wintering area
- or
- C. An area of deer habitat including:
 - a) Openings
 - b) Early successional forest
 - c) Winter shelter
- D. Habitat suitable for any other game or fur-bearer species.

For each area, note what features of the habitat make it a preferred living space for wildlife species.

Students will tour a dimension mill and/or a pulp mill, but preferably both.

V. METHOD OF EVALUATION:

Students must attend each activity and answer a short answer/multiple choice test on each activity.
Passing grade is 60%; B = 70-79%; A = 80% or better; A+ = 90% or better
Grades are based on averaged total.

Evaluation:	Kirkwood Camp	40%
	Small Engines	15%
	Methodology	15%
	6 Tours each at 5	30%
		<u>100%</u>

VI. SPECIAL NOTES:

Students with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.