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

COURSE OUTLINE

Course Tit	FOREST MAPPING Le:
Code No.:	FOR 115-3
Program:	FORESTRY
Semester:	TWO
Date:	JANUARY, 1987
Author:	ERWIN GOERTZ
	New: Revision:
APPROVED:	Chairperson Days

CALENDAR DESCRIPTION

FOREST MAPPING .

FOR 115-3

COURSE NAME

COURSE NUMBER

PHILOSOPHY/GOALS:

The overall aim of forest mapping is to teach the skills necessary for the professional presentation of a technical map.

GENERAL OBJECTIVES:

To prepare, use and interpret basic forest maps.

METHOD OF ASSESSMENT (GRADING METHOD):

Evaluation will be based on weekly assignments and weekly quizzes relating the work completed. All assignments are due in one week. 100% attendance mandatory. A student will be permitted to accumulate up to two (2) late assignments. Any additional late assignments will be based on 50% of the topossible marks. There will be a final class assignment covering all of the semester's work in the last class.

Grades:

A - 85%

B - 75%

C - 60%

TEXTBOOK(S):

Lab Manual - Forest Mapping

References:

1. Blair, C.L., R.I. Simpson, The Canadian Landscape: Map and Air Photo Interpretation, Copp Clark Pitman.

2. McHarg, I.L., Design with Nature, Natural History Press.

3. Raisz, E., Principles of Cartography, McGraw-Hill.

4. Robinson, A.H., Elements of Cartography, John Wiley & Sons.

5. Thomasson, R.D., Ontario Land Inventory: Wildlife, Ministry of Natural Resources.

MATERIALS REQUIRED:

MANUAL.

Lab Manual - Forest Mapping

EQUIPMENT

2H, H pencils pencil sharpener white bond paper masking tape white eraser

Engineer's scale (10-60 points)
Metric scale (1:500 to 1:2500)
Ames lettering guide
Set square
T-Square
Navigational protractor
Staedtler pen set (0.50 & 0.35 tips)

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	GRAI	GRADING METHOD				
	1.	QUIZZES (weekly)			10%	
	2.	ASSIGNMENTS			70%	
	Free	ehand Lettering (10 hours)		Marks		
		Practice				
	3. 4.	dendrology symbols metric symbols metric rules diameters Engineer's scale		10 10 10 10 10		
	Map	ping (10 hours)				
	8.	azimuths and bearings base map forest stand map topographic map		15 15 20 25		
1	Area	rea Determination (4 hours)				
	11.	forest stand map #1 forest stand map #2 forest stand map #3		25 25 30		
	Cru	ise Notes and Map (2 hours)				
	13.	Pike Lake		30		
	Cut	over Traverse (2 hours)				
	14.	Ogden Township		30		
	Ski	Trail Traverse (2 hours)				
	15.	field notes and map		30		
			3	300		
	3.	FINAL TEST (In-class assignment)		2	0%	
				10	10%	

1	1	Introduction
		purpose and objectives of coursemethod of assessment
2	1	Drafting Instruments and Media
		drafting instruments, types, uses and caredrafting media, types and application
3	6	Freehand Lettering
		 importance of good lettering in forestry work lettering styles guidelines line work
4	4	Mechancial Lettering
		- types, uses and care
5	10	Maps
		 importance and types of maps used in forestry Ministry of Natural Resources index numbers National Topographic System Conventional Signs and Forest Cover legend map scales map components
6	4	Area Determination
		 cross-section paper, dot grid line transect, polar planimeter
7	6	Field Traverse and Map Plotting

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OBJECTIVES (COMPETENCY BASED):

Note: Numbers (eg: 1.1.1.) refer to Forest Technician Program - Competenc. Levels.

Communicate Effectively (1.0)

- understand and use correct signs and symbols related to mapping forest, water, land and cultural features (1.1.1)
- demonstrate skill in freehand and mechanical lettering (1.1.6)

Use and interpret basic forest maps eg: forest stand, base, topographic, Ontario Land Inventory and Canada Land Inventory maps (1.1.7).

Use related forestry equipment safely and efficiently (3.0).

- use basic drafting equipment such as pencil, pen, T-square, set-squares, scale (metric and Imperial), vernier, Ames lettering guide, mechanical lettering set
- demonstrate skill in line work, area determination (dot grid, line trans polar planimeter), and drafting a complete map