


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

COURSE OUTLINE

Course Title: FOREST MAPPING  
Code No.: FOR 115-3  
Program: FORESTRY  
Semester: ONE  
Date: SEPTEMBER, 1988  
Author: ERWIN GOERTZ

New: \_\_\_\_\_ Revision: \_\_\_\_\_ X

APPROVED:  Chairperson Oct 18/88 Date

CALENDAR DESCRIPTION

FOREST MAPPING

FOR 115-3

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COURSE NAME

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COURSE NUMBER

PHILOSOPHY/GOALS:

The overall aim of forest mapping is to teach the skills necessary for the professional presentation of a technical map, as well as being able to read and apply map information.

GENERAL OBJECTIVES:

To prepare, use and interpret forest stand maps.

METHOD OF ASSESSMENT (GRADING METHOD):

Evaluation will be based on weekly assignments and weekly quizzes relating to the work completed. All assignments are due four days after they have been assigned. They will be placed in the appropriate slot in the box located in the central stores room adjacent to the mapping lab. 100% attendance is mandatory and late assignments will be accepted only under extremely special circumstances. There will be a final assignment covering all of the semester's work in the last class.

**Grades:**

A+	-	90-100%
A	-	80-89%
B	-	70-79%
C	-	60-69%

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. GA151 .C28 1978
2. McHarg, I.L., Design with Nature, Natural History Press. HC 110.E5M33
3. Raisz, E., Principles of Cartography, McGraw-Hill. GA 105 .R32
4. Robinson, A.H., Elements of Cartography, John Wiley & Sons. GA9 .R6 1960
5. Thomasson, R.D., Ontario Land Inventory: Wildlife, Ministry of Natural Resources. S964 .C3 T5

FOR 115-3

GRADING METHOD

- 1. QUIZZES (weekly) .....20%
- 2. ASSIGNMENTS .....60%

Freehand Lettering Marks

- 1. lettering 10
- 2. dendrology symbols 10
- 3. metric symbols/conversions 10
- 4. tree diameters 10
- 5. Engineer's scale 15

Mapping

- 6. azimuths and bearings 15
- 7. forest base map 15
- 8. forest stand map 20
- 9. topographic map 25

Area Determination

- 10. forest stand map 25
- 11. forest stand map 25
- 12. forest stand map 30

Cruise Notes and Map

- 13. timber cruise 30
- 14. field notes and map 30

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270

- 3. IN-CLASS ASSIGNMENT ..... 20%

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100%

OBJECTIVES (COMPETENCY BASED):

Note: Numbers (eg: 1.1.1.) refer to competency levels as outlined in the Ministry of Education's publication entitled Forestry Technician - A Training Profile.

- \* 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 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 transect, planimeter), and drafting a complete map

COURSE MATERIALS REQUIRED: (Available in the College Bookstore)

MANUAL

Lab Manual - FOREST MAPPING

EQUIPMENT

2H, H pencils  
white bond paper  
masking tape  
KOH-I-NOOR ink eraser (yellow)  
  
Engineer's scale (10-60 points)  
Metric scale (1:500 to 1:2500)  
Ames lettering guide  
Set square (45, 30-60)  
T-Square  
Navigational protractor  
Staedtler pen set (0.50 & 0.35 tips)  
Staedtler lettering templates (for above pens)

NOTE:

Please bring this equipment to each class.