SAULT COLLEGE

of APPLIED ARTS and TECHNOLOGY

Sault Ste. Marie

COURSE OUTLINE

FOREST MENSURATION

FOR 203-5

revised   February 1978   by J. Wiskin

CALENDAR RESUME

Forest Mensuration

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Sampling in forest inventories, point-sample cruising and forest
inventory methods.

Tree and log volumes, volume tables, simple graphical techniques.

FOREST MENSURATION

FOR 203-5

Text:

Natural Resources Measurements - by T. E. Avery

I. An application of point-sampling techniques and use of normal yield tables in forest sampling.

Objectives:

1. to apply point-sampling techniques in the field.

2. to measure average stand age and stand height.

3. to determine, from Plonski's Normal Yield Tables, such stand conditions as:

   working group

   species composition

   basal area per unit area

   stocking

   site class

   volume

   current annual increment

4. to prepare a forest stand map of the area cruised.

II. Volume of trees and stands

Objectives:

1. to compute volumes of logs and trees (a) graphically (b) from Swalian's, Huber's and Newton's formulae

2. to express graphic relationships between two variables

3. to draw and balance a curve through a set of points.

4. to construct a local volume table from the graphic relationship between height and diameter.

FOREST MENSURATION

FOR 203-5

5. to construct a form class volume table using taper
    tables.

6. to construct a local volume from a regression equation.