

SAULT COLLEGE
of APPLIED ARTS AND TECHNOLOGY
Sault Ste **Marie**,
Ontario.

COURSE OUTLINE

SURVEYING SUR 235-3

Civil 11

revised

June 1981

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SURVEYING

TEXTt. Surveying Notes by Sault College Engineering Dept.

References

Simplified Site Engineering Parker and McGuire

Surveying, Theory and Practice Davis and Foote

Elementary Surveying (Vol 1-and 11) Breed and Hesmer

Engineering Surveys (Elementary) Rubel, Lommel and Todd

Surveying Bouchard and Moffit

Highway Curves Ives

Surveying Practice - The Fundamentals of Surveying by Ki-sam

Principles of Surveying Herubin

CIVIL ENGINEERING TECHNICIAN

CE 11

-Performance Objectives for Surveying --

SUR 235-3

The Object of this course is to formulate survey problems and to relate them to actual field work and drafting room techniques. b'ev dealt with'. Levelling practices, profiles and cross section v/orks will be dealt with along with planimeter tor determining areas and volumes. Bearings and azimuths conversion, latitudes and departures along with areas by D.M.D.'s will be studied.

The student, on completion of this course must be able to:

- 1, Set grades and B.M.'s in the field.
 - 2, Deduce level notes.
 - 3, Record field level notes and notes for profiles.
 - 4, Plot profiles.
 - 5, Determine areas of cross section via end area marked.
 - 6, Determine areas of cross section via planimeters.
 - 7, Set sewer grades.
 - 8, Design and plan and layout drainage schemes.
 - 9, Determine survey requirements for borrow pit excavations,
- /ax-3:2C Plot contour lines.
Determine contours from points of known elevation.
Conduct a topographic survey.
Using field notes> draw a topographic map.
- /<? , Deter/fnine azimuths, bearings and co-ordinates,
13" , Determine areas by D.M.D.'s,

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Exercise No	Periods	Context
1	3	-differential levelling
2	4	-setting B.M.'s, Profiles
3	3	-street survey, plan 4 profile
^	^	-sewer grades, prelim, design, Alayout
	2	
5*		-topographic surveying
	2	*
6.		-cross sections, volumes