SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

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Course Ti u L'	.UK İ			
Code No.	<;! I r> 1 (1			
Program:	GFOLIMM; : ENGINEERING	nuiAN		
Semes ter:	TWO			
Date	JANUARY 1987			
Author:	W. R. DAVIES			
		New:	Revis Ion :	^

APPROVED:

Chairperson

Date

- 7 -

CALENDAR DESCRIPTION

SURVEYING & MAPPING Course Name SUR 120-3 Course Number

PHILOSOPHY/GOALS:

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METHOD OF ASSESSMENT (GRADING METHOD):

Mid Term Examination Final Examination	40X 60%			
Numerical Equivalents:	"A"	85	-	100%
	''B''	75	-	d4%
	"C"	50	-	74%

TEXTBOOK(S):

Surveying Notes - Sault College Campus Shop

Geological I <i>i</i> .	Mn(Jiuy>
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TIME

Semester 2 - SUR 120-3
3 hour lecture (theory) and laboratory per week
Semester " SUR 1?n-3
3 hour lecture (theory) an' laboratory per week

TEXT

Surveying Notes - Sault Colt'ye Campus Shop

Geological Enyi ing T ology - Semester 2

Surveying & Mapping -- SUR i^0-3

TOPIC NO.

TOPIC INFORMATION

Introduction, definitions of surveying types, kinds, and purposes of surveys kinds of surveying measurements, accuracy and precision of measurement errors and mistakes.

LEVELLING

Introduction to levelling, methods of mer^'^nriiiy differences in elevation trjms and definitions, theory of direct form of field notes, vpli in iiiients and their use, t and rcla+fd accessory irces cf error and eces:.ary precautions field

T LEVELLING

Profiles iid Liieir uses, methods oi obtaininj profile field data, plotting ; jfiles from field notes, field exercises, (jrade lines and grade computatio s, giving rade in the field, contours and contour levelling plotting contours from field notes.

ANGULAR r.::ASUREMENT AND DIRECTIONS

Terms and definitions, units of angular measurement, angular computations meridans, aziinuths, and bearings; angles formed by lines of known direction, azimuths and bearings from field angles, magnetic compass surveying

TRANSITS AND THEODOLITES

Basic principles, types of transits and theodolites, general applications, handling and set-up, the transit vernier, souices of error and mistakes, field exeicises.