

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

COURSE OUTLINE

Course Title: SURVEYING
Code No.: SUR 201
Program: CIVIL ENGINEERING TECHNICIAN
Semester: THREE
Date: SEPTEMBER, 1989 Previously Dated: JUNE, 1983
Author: V. VENN

New: Revision:

APPROVED:
Chairperson


_____ Date

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SURVEYING
Course Name

SUR 201
Course Number

TEXTBOOK(S) ;

SURVEYING, PRINCIPLES AND APPLICATIONS

by B.F. Kavanagh and S.J.G. Bird

CIVIL ENGINEERING TECHNICIAN
MARKING SYSTEM - SURVEYING

CRITERIA EMPLOYED FOR ASSESSMENT PURPOSES

1. TOTAL ASSIGNMENT, PROJECT AND TEST ASSESSMENT - ENTIRE SEMESTER

Late submissions will not be accepted unless prior consultation with instructor discloses unusual difficulty

2. ATTENDANCE

-Attendance will be recorded at the beginning of each class

-Late arrivals will be marked absent

-Chronic late arrivals will be refused admittance

A poor attendance record will work to the detriment of the student where a border line situation is encountered

ASSIGNMENT, PROJECT, AND TEST ASSESSMENT

Individual assignments, projects and tests will be assessed on a basis of 100 marks,

-minimum acceptable grade = 60

BREAKDOWN

TOTAL SEMESTER	= 100 marks
Assignments	= 25 marks
Mid-semester Tests	= 35 marks
Final Semester Tests	= 40 marks

MARKING SYSTEM (Con't)

EXAMPLE

8 Assignments at 100 marks each = 800 possible marks
Assume 640 marks attained
Therefore $640 \times 25 = 20$

800

Mid-Semester test
Assume a grade of 74 marks attained
Therefore $74 \times 35 = 26$

100

Final Semester test
Assume a grade of 82 attained
Therefore $82 \times 40 = 33$

100

Therefore $20+26+33 = 79$ or a grade of B

INCOMPLETE GRADES

1. Repeat assignments or tests to carry a maximum possible grade of 60.
2. Mid-semester test may be repeated only once. Final semester test rewrites will be scheduled only during the prescribed make up period. Failure to attain a satisfactory grade therein will require repeating the course. Satisfactory completion, Semester 3 will be a prerequisite for entry, Semester 4.

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CIVIL ENGINEERING TECHNICIANS

COURSE OF STUDY OUTLINE

SUR 201-4
(PREREQUISITE SUR 235)

TOPIC NO.	HOURS	TOPIC INFORMATION
		<u>REVIEW</u> Types of traverses; calculation of azimuths and bearings from field angles; deflection angles; exercises
		<u>REVIEW</u> Latitudes, departures, double meridian distances, circuit closure, areas, exercises
		<u>TERM PROJECT</u> Involves computation of latitudes, departures double meridian distances; final plot and computation will be submitted for grading
		Use of modern theodolites versus transits, direction theodolites, repeating theodolites, micrometer versus direct reading; instruments; field exercises using theodolites
		Specialized survey equipment; electronic measuring devices; field exercise

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CIVIL ENGINEERING TECHNICIANS

COURSE OF STUDY

TOPIC NO.	HOURS	TOPIC INFORMATION
16		<u>HIGHWAY CURVES</u> Elements of curves; alignment; stationing; simple parts of curves. Method of locating curves on ground calculations and related problems
10		<u>VERTICAL CURVES</u> Review of grade lines and gradients; grade line intersections; vertical parabolic curves; computation of offsets from grade lines. Location and elevation of high/low parts of curves. Field procedures.
12		<u>PRACTICAL FIELD PROBLEMS</u> Trigonometric levelling; curve stake out; setting batter boards