

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

COURSE OUTLINE

Course Title: CIVIL ENGINEERING TECHNICIAN
Code No.: ARC ~~113~~ 115
Program: DRAFTING
Semester: TWO
Date: JUNE 1983
Author: G. FRECH

New: _____ Revision: X

APPROVED: *J.P. Crozetta*
Chairperson _____ Date _____

DRAFTING
Course Name

ARC ~~113~~ 115
Course Number

PHILOSOPHY/GOALS:

Students having completed Drafting ARC 110 as a prerequisite, will continue to learn and practice good drafting techniques. Upon completion, he/she will have a working knowledge of basic drafting requirements for engineering and construction with the ability to read building drawings.

METHOD OF ASSESSMENT (GRADING METHOD):

A 86 - 100%
B 70 - 85%
C 55 - 69%
R Repeat
X Work to be made up under special circumstances

Marks will be accumulated and averaged using assignments and test.

Assignments will be handed in by due dates, otherwise loss of marks will result or new assignment issued.

Attendance, lateness, and attitude will be considered in assessment.

TEXTBOOK(S): Fundamentals of Engineering Drawing - Luzadder
Drafting Equipment

REFERENCE TEXTS: C.I.S.C. Detailing Practice
C.I.S.C. Handbook

TOPIC NO.	PERIODS	TOPIC DESCRIPTION
1	4	<u>Inking</u> 1. Review Equipment 2. Inking Practice
2	20	<u>Inking Project</u> 1. Layout from Survey Exercise 2. Draw and Ink on Mylar
3	12	<u>Structural</u> 1. Tables 2. Standards 3. Line Drawings 4. Shop Drawings 5. Read Prints
4	24	<u>Drawing Projects</u> 1. Beams 2. Coils Columns. 3. Bills Material

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PERFORMANCE OBJECTIVES FOR DRAFTING:

1. To identify good inking techniques.
2. To identify a working layout of a survey exercise.
3. To layout and ink a drawing of survey related projects.
4. To identify a simple beam and make a working drawing from erection drawings.
5. To identify a simple column and make a working drawing from erection drawings.
6. To identify bills of material and weighing.
7. To use structural tables.
8. To draw a simple line drawing properly.
9. To use standard drawing procedures when making erection and shop drawings.
10. To detail a simple truss panel point.
11. To call for material on an erection point.
12. To dimension properly an erection drawing.
13. To dimension properly a shop drawing.
14. To identify foundation plans and section.