

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: DRAFTING

Code No.: ARC 115

Program: CIVIL ENGINEERING TECHNICIAN

Semester: TWO

Date: NOVEMBER, 1987

Author: G. FRECH

New: _____ Revision: ^X _____

APPROVED: _____
Chairperson

_____ Date

CALENDAR DESCRIPTION

DRAFTING

ARC 115

Course Name

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

CIVIL ENNGINEERING TECHNICIAN

ARC 115

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 call for material on an erection plan.
11. To dimension properly an erection drawing.
12. To dimension properly a shop drawing.
13. To identify foundation plans and section.

TOPIC NO.	PERIODS	TOPIC DESCRIPTION
1	4	<u>Inking</u> 1. Review Inking 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. Columns 3. Bills Material