


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

COURSE OUTLINE

Course Title: TECHNICAL DRAWING
Code No.: DRF~~114~~ 3 (Replacing DRF 114-3 for Pulp & Paper)
Program: Pulp & Paper
Semester: Four
Date: June, 1983
Author: Gary MacLean

New: x Revision: _____

APPROVED:


Chairperson

11/29/83
Date

CALENDAR DESCRIPTION

<u>Technical Drawing</u>	<u>DRF</u>	<u>-3</u>
Course Name	Course Number	

(Replacing DRF 114-3 for Pulp & Paper)

PHILOSOPHY/GOALS:

To prepare the student with a suitable background of information and skill to assure that he/she will be capable of:

- a) proper use of drafting equipment
- b) preparing working drawings fo simple detail parts
- c) interpreting detail, assembly, piping and hydraulic circuit drawings

This is a basic course including the proper use of drafting instruments, lettering, orthographic projection, use and care of the whiteprint machine, sections, dimensioning, isometric drawing, piping drawing, drawing of hydraulic circuits and interpretation of technical drawings.

METHOD OF ASSESSMENT (GRADING METHOD):

Regular drawing assignments	50% of Final Grade
Tests - Mid October	10%
- Mid November	15%
- Mid December	25%
	<u>100%</u>

TEXTBOOK(S):

Engineering Drawing and Design, Vensen and Hesel, McGraw-Hill.

TOPIC NO.	TOPIC INFORMATION
	Students must be capable of, or familiar with:
1	Proper Use of Drafting Instruments <ul style="list-style-type: none">- mounting of drafting media on the drafting board- use of T-square- use of set squares (singly and in combination for 15° & 75°)- use of bow compass (including set-up and sharpening)- use of metric scale- use of architect's scale- pencil hardness grade selection
2	Lettering <ul style="list-style-type: none">- vertical upper case single stroke Gothic- use of lettering guide (Ames)
3	Orthographic Projection <ul style="list-style-type: none">- selection of front view- drawing and positioning of five other principal views- third angle projection vs. first angle, and I.S.O. symbol- standard line types- selection of standard drawing size
4	Use and Care of Whiteprint Machine
5	Sectioning <ul style="list-style-type: none">- use of full, half, offset, aligned, revolved, partial, removed sections- cross matching for various materials- cutting plane lines, and identification
6	Dimensioning <ul style="list-style-type: none">- basic rules- tolerancing- fits of mating parts- surface finish symbols
7	Isometric Drawing <ul style="list-style-type: none">- isometric axis - isometric and non-isometric lines- isometric circles
8	Single Line Piping Drawing <ul style="list-style-type: none">- isometric and orthographic
9	Hydraulic Circuits <ul style="list-style-type: none">- graphic symbols- cutaway diagrams- drawing of a simple hydraulic circuit
10	Drawing Interpretation