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

COURSE OUTLINE

Course Title:	DRAFTING	
Code No.:	DRF 115-3	
Program:	HEAVY EQUIPMENT	
Semester:	ONE	
Date:	JUNE, 1984	
Author:	G. MACLEAN	

New:_____ Revision: X

APPROVED:

Chairperson

Date

DRAFTING

Course Name

DRF 115-3

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PHILOSOPHY/GOALS:

- 1. Make the student aware of the standard methods used to describe mechanical details and assemblies on technical drawings.
- 2. Provide practice in the interpretation of technical drawings.
- Provide practice in the making of freehand sketches to communicate technical ideas, based on the same standard methods used in technical drawings.

TEXTBOOK(S):

Interpreting Engineering Drawings by Jensen & Hines (Metric Edition) (Delmar Publishers)

REFERENCE TEXTS:

Blueprint Reading for Industry by W.C. Brown (Goodheart-Willcox Co.)

Technical Freehand Drawing and Sketching by Knowlton, Beauchemin, Quinn (McGraw-Hill)

Machinery's Handbook

NUMBER	PERIODS	TOPIC DESCRIPTION
1	6	Freehand Sketching
		 Techniques - straight lines proportion arcs and circles ellipses approximation of angles division of a line into a given number of parts standard lines
		2. Practice in sketching in familiar shapes
2	6	Orthographic Projection
		 Selection of appropriate views Sketching of objects with square and inclined surfaces Sketching of objects having arcs and circles
3	6	Pictorial Sketching
		 Sketching of objects with isometric lines, non-isometric lines, arcs and circles Isometric views of assemblies Oblique sketches
4	2	Lettering
		1. Practice in Gothic lettering
5	2	Dimensioning
		1. Rules 2. Practice
6	2	<pre>Screw Threads 1. Types of representation 2. Drawing call-up of inch and metric threads</pre>

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NUMBER	PERIODS	TOPIC DESCRIPTION
7	2	Tolerances
		 Limits Bilateral and unilateral tolerancing Minimum and maximum clearance between mating parts
8	5	Sections
		 Cutting plane Section lining Types of sections Assembly sections
9	2	Auxiliary Views
10	2	Weld Symbols
11	2	Structural Steel Shapes
12	2	Shop Terms and Standard Abbreviations
13	6	Interpreting of Technical Drawings

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