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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: DRAFTING

Code No.: DRF 109-3

Program: MACHINE SHOP

Semester: TWO

Date: 1989 01 04

Author: F. G. MACLEAN

New: ______ Revision: X

APPROVED: L Crozeth (signature) Chairperson   89/01/04 Date

DRAFTING	DRF 109-3
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PHILOSOPHY/GOALS:

To ensure the student will:

1) Be able to accurately interpret information given on a technical drawing;

2) Be able to produce legible drawings that are complete in every way, and subject to only one interpretation.

METHOD OF ASSESSMENT (GRADING METHOD):

The final grade will be established by combining the marks obtained in drawing assignments, with test marks. This will be an ongoing process throughout the semester.

TEXTBOOK(S):

Introduction to Technical Drawing - Stirling - Macmillan of Canada

Interpreting Engineering Drawing - Jensen & Hines - Delmar Publisher

REFERENCES:

Machinery's Handbook

DRAFTING 109-3

1) **REVIEW OF DRF 106:**

- preparation of a detail drawing (drawing problem will be selected to apply, as much as possible, to the subject matter in the basic drafting course).

2) **SCREW THREADS:**

- specification of inch threads
- specificaton of metric threads
- screw thread representation (conventional and alternative)
- drawing of standard fasteners

3) **PICTORIAL DRAWING:**

- oblique drawing (Cavalier)

4) **AUXILIARY VIEWS:**

- primary, and secondary auxiliary views

5) **TOLERANCING:**

- unilateral, bilateral, and limit dimensioning
- tolerance grades suitable for various manufacturing processes
- tolerances for mating parts
- introduction to geometric tolerancing

6) **SYMBOLS AND ABBREVIATIONS**

7) **ASSEMBLY DRAWINGS:**

- fasteners in assembly
- bill of material
- preparation of detail drawings, given an assembly drawing
- preparation of an assembly drawing, given detail drawings
- cross-referencing between detail and assembly drawings
- specifications
- revisions

8) **DRAWING INTERPRETATION**