SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: Electrical/Electronic Drafting

CODE NO: ELR112-2

PROGRAM: Electrical/Electronic

SEMESTER: Two

DATE: May 1987

AUTHOR: Jim Hamilton

                                            NEW _____ REVISION _____

APPROVED: _J.P. Orazietto_____   _____
              CHAIRPERSON   DATE

PHILOSOPHY/GOALS:

To develop the knowledge and skills required to produce electrical/electronic drawings in accordance with ANSI and IEEE standards.

METHOD OF ASSESSMENT (GRADING METHOD):

Grading will be based on submitted work. Attendance will be a factor in the grading procedure.

A	85 - 100%
B	70 - 84%
C	55 - 69%

TEXTBOOK(S):

Drafting for Electronics - 1985.

COURSE OUTLINE:

HOURS	TOPIC
2	**Manual Lettering** Pencil techniques: stroke, sequence, form and spacing, Lettering composition, mechanical lettering aids.
4	**Linework** Line technique, line types, precedence of lines, line conventions, visible or object lines, hidden lines, center lines, dimension lines, extension lines, leader lines, cross-sector lines, phantom lines, cutting plane and viewing plane lines, break lines. Electronic and Electrical line conventions. Sketching, lines, curved lines, bow compass and dividers, and the French curve.
4	**Geometric Constructions** Constructing an Ellipse, Orthogrpahic views, Isometric views, Basic dimensions, metrics, fasteners.

8   **Electro Geometric Constructions**
Electronic symbols, symbol hook up practice, component outline electrical and hardware.

6   **Block Diagrams**
Schematic diagrams, crossovers and intersections, notations and values.

6   **Graphs & Charts**

Curve plotting, choosing a scale, identifying curves ANSI standards.

SPECIFIC OBJECTIVES:

The student shall be able to:

1. Manually letter freehand and use mechanical lettering aids.

2. Prepare drawings using correct line techniques and electrical/
   electronic line conventions.

3. Prepare orthographic and isometric views including dimensions,
   multi-view projections.

4. Prepare block and schematic diagrams, component outlines and
   hardware to ANSI standards.

5. Prepare engineering graphs, semi-log and polar graph paper, and
   bar charts.