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

## COURSE OUTLINE

Course Title:	ELECT/ELECT DRAFTI	NG	
Code No.:	ELR 112	Semester:	TWO
Program:	ELECTRICAL/ELECTRONICS		
Author:	JIM HAMILTON		
Date:	JAN. 1990 Previou	s Outline Dated:	
APPROVED:	P. Arguitto		
C	Chairperson 0	Date	

ELECT/ELECT DRAFTING	ELR 112	
Course Name	Course Number	
Total Credit Hours		
Prerequisite(s):		
I. PHILOSOPHY/GOALS:		
To develop the skills and know requisite to the construction electrical/Electronic industry	of drawings acceptable in the	
II. STUDENT PERFORMANCE OBJECTIVES:		
Upon successful completion of th	is course the student will:	
<ol> <li>Check trueness of T-square.</li> <li>Place paper correctly on the</li> <li>Recall the proper grade of per</li> </ol>	drawing board. ncil to be used for different work	

- 5) Letter a drawing correctly.
- 6) Construct border lines.

4) Pencil techniques.

- 7) Construct lines to given dimensions using T-squares and set squares.
- 8) Construct a title block.
- 9) Demonstrate the ability to use the bow compass correctly.
- 10) Demonstrate the ability to visualize the three views in orthographic projection, given an isometric.
- 11) Demonstrate the ability to construct drawings to scale.
- 12) Demonstrate the ability to dimension a drawing correctly.
- 13) Demonstrate the ability to draw circles in a isometric drawing.
- 14) Demonstrate the ability to construct electro-geometric drawings.
- 15) Demonstrate the ability to identify graphic symbols for the home and industry.

CODE BOOK -- Demonstrate the ability to read and interpret the Electrical Code for the following:

1) Calculation of service size for a house.

2) Different methods of grounding.

3) Demonstrate the ability to use a homograph to find the correct length of ground rod required.

4) Demonstrate the ability to calculate the size of winch required for pulling cables into underground ducts.

5) Demonstrate the ability to calculate feeder size for a group of AC motors.

6) Code relating to hazardous locations.

7) Code relating to electric heating.