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

COURSE OUTLINE

Course Title	Basic Elect	trical		
Code No.:	MCH 242			
Program:	Mechanical	Engineering	Technician	- Machining
Semester:	Pour			
Date:	1987 01 13			
Author:	A. Bradley			
			XX	
		New	AA	Revision

Date

APPROVED:

Chairperson

Basic **Electrical**

MCH 242

Course Na«e

Course Number

PHILOSOPHY/GOALS:

The object of this course is to introduce the student to a number of Basic Fundamentals of Electricity. These instructions should enable the student do do minor electrical repairs and the understanding of electrical operations as applied to machining operations.

METHODS OF ASSESSMENT (GRADING METHOD);

A = 76% - 100% B - 66% - 75% C = 55% - 65% X = 0 54%

X grade students may rewrite a test covering the entire course to achieve a passing grade of C.

TEITBOOK(S):

Electric Circuits and Machines - Listor

OBJECTIVES:

TOPIC MO.	PERIODS	TOPIC DESCRIPTIOI	RBFBRHTCE
1		Electrical qualities and units Electric charge, electric current Voltage, conductors for energy- transmission Ohms Law, series, parallel and combination circuits	
2		Insulation testing and maintenance AC voltage, DC voltage	
3		DC motors and generators Series, shunt, compound Principle of generator action and motor action Commotation and maintenance of "brush Mica under cutting, cleaning and med repair	ı gear
4		AC motors and alternators Three phase motors Single phase motors Split phase motors	
5		Transformers Principle of transformer operation Transformer markings	
6		Trouble shooting procedures Grounds, opens, shorts Circuit breakers over current device Under current devices Electrical and mechanical horsepower Mechanical vibration and alignment	