SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE OUTLINE:	ELECTRICAL DRAWING - CAD
CODE NO.:	ELR 229-3
PROGRAM:	ELECTRICAL/ELECTRONIC ENGINEERING TECHNICIAN
SEMESTER:	THREE
DATE:	SEPTEMBER 1991
PREVIOUS OUTLINE DATED:	SEPTEMBER 1990
AUTHOR:	ENO LUDAVICIUS

NEW:_____ REV.:____X____

APPROVED:

W. Filipowich — COORDINATOR — Sep 16, 1991 — DATE

L P Chaput — DEAN — 91/09/16 — DATE

COMPUTER AIDED DRAFTING — COURSE NAME

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TOPICS TO BE COVERED:

1) INTRODUCTION TO CAD/CADD TERMINOLOGY AND PRINCIPLES.

2) OVERVIEW OF CAD/CADD WORKSTATION HARDWARE & SOFTWARE.

3) INTRODUCTION TO AUTOCAD MENU STRUCTURES UTILIZING DIFFERENT COMMAND ENTRY FORMS.

4) INTRODUCTION TO SMARTWORK OR HIWIRE OR MATHCAD.

LEARNING ACTIVITIES	REQUIRED RESOURCES
1.0 INTRO TO CAD/CADD TERMINOLOGY & PRINCIPLES	
1.1) DEFINE THE TERMS CAD & CADD.	VIDEO: COMING TO A FACTORY NEAR YOU
1.2) DISCUSS CAD/CADD AT SAULT COLLEGE.	
1.3) DISCUSS CAD/CADD APPLICATION.	
1.4) DISTINGUISH THE ADVANTAGES AND DISADVANTAGES OF USING AUTOCAD.	
2.0) OVERVIEW OF CAD/CADD WORKSTATION HARDWARE & SOFTWARE	
2.1) DISCUSS THE SELECTION OF A CAD/CADD WORKSTATION.	HANDOUTS: CAD PRINCIPLES
2.2) UTILIZE THE CAD/CADD/CAE SURVEY.	
2.3) DISCUSS THE CAD/CADD HARDWARE & SOFTWARE CHECKLIST.	
2.4) DEFINE THE HARDWARE & SOFTWARE COMPONENTS OF CAD/CADD WORKSTATION.	

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3.Ø) INTRODUCTION TO AUTOCAD MAIN MENU & COMMANDS	
UPON SUCCESSFUL COMPLETION OF THIS UNIT, THE STUDENT WILL ABLE TO:	
3.1) OUTLINE THE VARIOUS AUTOCAD FEATURES 3.2) DISCUSS THE AUTOCAD COMMAND SUMMARY. 3.3) DESCRIBE THE AUTOCAD MENU STRUCTURE. 3.4) UTILIZE AUTOCAD TO DRAW.	TEXT: AUTOCAD AND ITS APPLICATIONS
4.Ø) INTRODUCTION TO OTHER CAD SOFTWARE	
4.1) DISCUSS THE NATURE OF THE SOFTWARE AND IT'S HISTORY. 4.2) OUTLINE THE SOFTWARE MENU STRUCTURE. 4.3) DESCRIBE THE SOFTWARE BUILDING BLOCKS TO BE ABLE TO LAYOUT FUNCTIONS.	

REQUIRED STUDENT RESOURCES
(INCLUDING TEXTBOOKS & WORKBOOKS)

1) T.SHUMAKER & D.MADSEN, AUTOCAD AND ITS APPLICATIONS
GOODHEART-WILCOX, 1989

ADDITIONAL RESOURCE MATERIALS

1) J.M. KIRKPATRICK, THE AUTOCAD TEXTBOOK
TORONTO. MERRILL. 1989

2) J. STEINHART, COMING TO A FACTORY NEAR YOU
TVONTARIO 1988

3) D.RAKER & H.RICE, INSIDE AUTOCAD FIFTH EDITION
THOUSAND OAKS, CA91360, U.S.A. NEW RIDERS 1989

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METHOD(S) OF EVALUATION

THE FINAL GRADE OF THIS COURSE WILL BE DIVIDED BETWEEN THE CAD DRAWINGS (50%), & THE DRAWING THEORY (50%). EACH UNIT OF THE COURSE WILL BE INDEPENDENTLY ASSESSED, AND EACH MUST BE SUCCESSFULLY COMPLETED TO COMPLETE THE COURSE.

THE FINAL GRADE FOR CAD WILL BE DERIVED FROM THE RESULTS OF THREE TEACHER ASSIGNED TESTS, AND ASSIGNMENTS PLUS ONE PROJECT:

TWO TESTS	50%	(25% PER TEST)
ASSIGNMENTS & PROJECT	50%	
TOTAL	100%	

THE GRADING SYSTEM USED WILL BE AS FOLLOWS:

A+	>= 90%	CONSISTENTLY OUTSTANDING ACHIEVEMENT
A	80-89%	EXCELLENT ACHIEVEMENT
B	70-79%	ABOVE AVERAGE ACHIEVEMENT
C	55-69%	SATISFACTORY ACHIEVEMENT
R		REPEAT
X		INCOMPLETE