SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE:	INTRODUCTION TO AUTOCAD
CODE NUMBER:	CAD 120
PROGRAM:	MECHANICAL
DATE:	SEPTEMBER 1992
AUTHOR:	DAN GRAND
CONTACT TIMES:	MONDAY TO FRIDAY 8:30 TO 4:00
TELEPHONE:	759-6774 EXT. 310

NEW: ..... REVISION: .....

APPROVED: L.C. Chazuth ..... 92-08-24 .....

CHAIRPERSON DATE

CALENDAR DESCRIPTION

INTRODUCTION TO CAD	CAD 120-3
Course Name	Course Number

PHILOSOPHY/GOALS:

To understand the use of the computer to develop graphic presentations.

To explore "AUTOCAD" and other software packages available for graphic presentation in various disciplines.

To understand basic computer concepts as they apply to Engineering design and drafting.

To achieve a basic knowledge of "AUTOCAD" principles by a hands on approach on the microcomputer.

METHOD OF ASSESSMENT (ALL COURSES)

The following grades will be assigned:

A+- 92 - 100%	consistently outstanding
A - 81 - 91%	outstanding achievement
B - 71 - 80%	consistently above average achievement
C - 60 - 70%	satisfactory achievement
I - Incomplete	
R - Repeat	the student has failed to achieve the objectives of the course and must repeat the course

The "I" grade (Incomplete) designation indicates that the student has not completed the objectives required in specific course areas.

Semester work will be made up of tests and assignments. All tests and assignments must be completed when assigned. Late assignments or projects will not be tolerated.

Attendance is also mandatory in all classes.

Tests and assignments will be given on a regular basis throughout the semester. Final examinations are also mandatory for any student that does not maintain an "A" average in the course or who has not completed all assignments by their due date.

REFERENCE TEXTS:

AUTOCAD and Its Applications
by Terence M. Shumaker/David A. Madsen

Discovering Autocad - Release 11 by Mark Dix and Paul Riley

CAD 120-3

TOPIC INFORMATION

UNIT #1 INTRODUCTION

a) identify equipment
b) method & procedures
c) value of planning
d) system management
e) rules of hygiene in labs

UNIT #2 STARTING AUTOCAD

a) meaning of MS-DOS
b) begin Acad program
c) screen layout
d) menu structure
e) input devices
f) format floppy disk

UNIT #3 SET-UP DRAWING

a) main menue
b) begin new drawing
c) limits
d) units

UNIT #4 DRAWING & DRAWING AIDS

a) grid
b) snap
c) axis
d) ortho
e) settings
f) line command

UNIT #5 SAVE DRAWING & GETTING HELP

a) save
b) end
c) quit
d) help
e) cancel command
f) alphanumeric screen
g) drawing editor

UNIT #6 **DRAWING & ERASING LINES**

a) absolute
b) relative
c) polar
d) ortho mode
e) coords display
f) line command
g) pline
h) erase
i) fill
j) redraw

UNIT #7 **BASIC EDIT COMMANDS**

a) move
b) copy
c) multiple copy
d) mirror
e) chamfer
f) fillets

UNIT #8 **ADVANCED EDIT COMMANDS**

a) rotate
b) scale
c) trim
d) stretch
e) break
f) extend
g) change

UNIT #9 **DRAWING BASIC SHAPES**

a) dragmode
b) circle
c) @ symbol function
d) arc
e) polygon
f) multiple

UNIT #10 **OBJECTIVES**

a) osnap
b) override
c) offset
d) tools

UNIT #11 **DISPLAY**

a) redraw
b) zoom
c) window
d) previous
e) all
f) extents

UNIT #12 **TEXT**

a) Dtext
b) Qtext
c) style
d) underscore
e) special symbols
f) pull downs
g) title blocks

UNIT #13 **DIMENSIONING**

a) horizontal
b) vertical
c) continuous
d) base
e) leader

UNIT #14 **LAYERS**

a) layers
b) names
c) Linetypes
d) colour
e) on/off
f) freeze/thaw

UNIT #15 **PRINT/PLOTTING**

a) plot to printer