

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

COURSE OUTLINE

Course Title: INTRODUCTION TO CAD

Code No.: CAD 120-3

Program: ARCHITECTURAL

Semester: VARIES

Date: JANUARY 1991

Author: ALISON CLARKE

New: \_\_\_\_\_ Revision: X

APPROVED: *L.P. Choquette*  
Chairperson

9/10/25  
Date



CALENDAR DESCRIPTION

INTRODUCTION TO CAD

CAD 120-3

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Course Name

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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 10 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

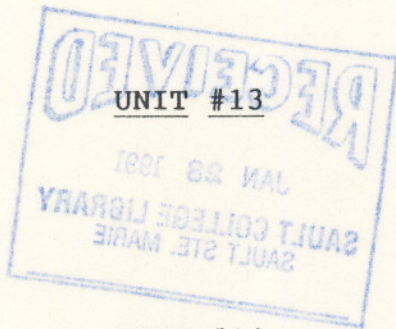
DISPLAY

- 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