

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE ONT.

COURSE OUTLINE

COURSE TITLE: APPLIED CAD  
COURSE CODE: CAD 302  
PROGRAM: ARCHITECTURAL TECHNOLOGY  
SEMESTER: 6  
AUTHOR: M. URSELL  
DATE: JAN 1994

PREVIOUS DATE: NEW

APPROVED: *S. Crockett*

DATE: *Jan 04/94*

---

TOTAL CREDIT HOURS: 48

PREREQUISITES: CAD 120, CAD 222, CAD 232, CAD 301

---

### **I. PHILOSOPHY & GOALS**

This course is an extension of previous Cad courses. The student will apply knowledge gained in prerequisite Cad courses to complete specific objectives related to other core subjects. The student will use Cad modelling techniques, Cad customizing techniques, & General Autocad commands learned in earlier courses.

---

### **II. STUDENT PERFORMANCE OBJECTIVES**

Upon completion of this course, the student will be able to:

1. Complete working drawing & detail projects.
2. Complete various 3D modelling exercises.
3. To work in an unsupervised environment on external Community oriented design applications.
4. To provide customizing techniques for various presentation applications.

## METHOD OF ASSESSMENT

The following grades will be assigned:

A+	90 - 100%	consistently outstanding
A	80 - 89%	outstanding achievement
B	70 - 79%	consistently above average
C	55 - 69%	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 be PENALIZED.

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.

## REQUIRED STUDENT RESOURCES:

- AUTOCAD and it's applications Release 12 by Terence M. Shumaker/David A. Madson
- The student should also have a minimum of two 3.5" or 5.25 high density floppy disks.

---

III. TOPICS TO BE COVERED

1. Review of basic Autocad Commands
2. Review of customizing procedures, including:
  - Slide Show creation
  - Screen Menu construction
  - Tablet Menu applications
3. Review of 3D modelling concepts, including:
  - Display of 3D models for Presentation
  - Viewport control
  - Coordinate systems
  - Autocad,s Shade utility
  - Autocad,s AME extension
4. The demonstration of other 3D software such as 3DSTUDIO
5. Self directed internal and external design projects as required.

---

**IV: LEARNING ACTIVITIES**

**REQUIRED RESOURCES**

Upon completion of this unit the student will have:

1. Reviewed the basic Autocad commands, including:

*The drawing setup commands*

*The edit commands*

*The auto editing commands*

*Layers*

*Text*

*Dimensioning*

*Blocks*

2. Reviewed the basic Customizing procedures, including:

*The autocad Menu Codes*

*The use of the Line Editors*

*The programming requirements for Slide Show simulation*

*The programming requirements for Screen Menu creation*

*The programming requirements for Tablet Menu creation*

3. The student will have applied 3D modelling concepts to:

*Create 3D models for presentation*

*Create shade & simulation on 3D models*

*Create Solid models Using the AME extension*

*Applied all previous concepts and commands learned in earlier cad courses to internal & external Core Design Projects.*

4. Will demonstrate a basic knowledge of other 3D software such as 3DSTUDIO