

# Advanced AutoCAD

## Course Design

2006-2007

### Course Information

<b>Organization</b>	Eastern Arizona College
<b>Division</b>	ITE
<b>Course Number</b>	DRF 271
<b>Title</b>	Advanced AutoCAD
<b>Credits</b>	3
<b>Developed by</b>	Dee Lauritzen, Tom Tomasky
<b>Lecture/Lab Ratio</b>	1 hour lecture, 4 hours lab per week
<b>Transfer Status</b>	DEC (ICG) to ASU, CM230 to NAU, Elective to UofA
<b>Activity Course</b>	No
<b>CIP Code</b>	15.1300
<b>Assessment Mode</b>	Pre/Post Test; 25 questions, 25 points
<b>Semester Taught</b>	Every Spring Semester
<b>GE Category</b>	None
<b>Separate Lab</b>	Yes
<b>Awareness Course</b>	No
<b>Intensive Writing Course</b>	No

### Prerequisites

DRF 154

### Educational Value

The course is designed for the student who wishes to be trained as a technician and who desires employment at the end of training.

### Description

Course examines how to use advanced AutoCAD software capabilities. Students will focus on system customization including menu development and macro programming using AutoLisp. Advanced drawing techniques and drafting applications will also be included.

### Textbooks

NA. *None*. Required

## **Supplies**

None

## **Competencies and Performance Standards**

### **1. Configure the AutoCAD software.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Activate system installation, setup, and configuration.

#### **Performance Standards**

*Competence will be demonstrated:*

- o using the available drafting facilities and software.

*Criteria - Performance will be satisfactory when:*

- o learner completes assigned activities.

### **2. Customize the standard AutoCAD menu system including toolbars.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Use basic AutoCAD menu system, pulldown menus, and toolbars.
- b. Acquaint self with advanced AutoCAD system commands.

#### **Performance Standards**

*Competence will be demonstrated:*

- o using the available drafting facilities and software.

*Criteria - Performance will be satisfactory when:*

- o learner completes assigned activities.

### **3. Develop simple AutoLisp macros to enhance system capabilities and provide shortcuts for command sequences.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Acquaint self with AutoLisp programming package options.
- b. Use AutoLisp in macro development.

#### **Performance Standards**

*Competence will be demonstrated:*

- o using the available drafting facilities and software.

*Criteria - Performance will be satisfactory when:*

- o learner completes assigned activities.

#### **4. Develop custom line types, hatch patterns, symbols and pulldown menus.**

##### ***Learning objectives***

*What you will learn as you master the competency:*

- a. Create custom line types.
- b. Be able to create custom crosshatch patterns.

##### ***Performance Standards***

*Competence will be demonstrated:*

- o using the available drafting facilities and software.

*Criteria - Performance will be satisfactory when:*

- o learner completes assigned activities.

#### **5. Create Mechanical Part Assemblies**

##### ***Learning objectives***

*What you will learn as you master the competency:*

- a. Acquaint self with hardware maintenance procedures.

##### ***Performance Standards***

*Competence will be demonstrated:*

- o using the available drafting facilities and software.

*Criteria - Performance will be satisfactory when:*

- o learner completes assigned activities.

### ***Types of Instruction***

Classroom Presentation

Lab

### ***Grading Information***

#### ***Grading Scale***

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	59% or lower