

### **xAutoCAD Quick Start Instructions:**

AutoCAD 2004 is installed on all the computers in the MiRC computer lab in room 230. Room 230 requires Buzzcard access. You must swipe in upon entering and you must swipe out upon exiting. If you do not have access to room 230 or an account on these machines, you can obtain access from Matthew Blake or Amy Duke in room 201.

### **Important Layout Settings**

1. Drawing Units (drop down menu **Format > Units...**)
  - a. Set Length Precision to 0.000.
  - b. Set Length Angle to 0.000 (important if you use triangles, circles, or other shapes with non-orthogonal lines).
  - c. Set Drop and Drag scale Units to “Microns”
2. Drafting Settings (drop down menu **Tools > Drafting Settings...**)
  - a. Turn snap on.
  - b. Set snap X & Y spacing to 0.001.
  - c. Turn grid on
  - d. Set grid X & Y spacing to 0.001.

### **Drawing Objects**

3. You should make all patterns as 2-D solids. Use the “solid” command to do this. You can search AutoCAD help on how to use this command.
4. If you need to make circles, use the “donut” command and set the inner diameter to 0. You can search AutoCAD help on how to use this command.
5. You can use the “array” command to make arrays of the same object. You can search AutoCAD help on how to use this command.

### **Layers**

6. If you intend to assign different colors to different objects, then you need to assign different layers to each object. (drop down menu **Format > Layer...**)
  - a. Click on **N**ew to add a new layer
  - b. The newly added layer will have a default color of White. In order to distinguish the new layer from Layer 0, click on White under the Color column for the newly added layer and change it to some other color.
  - c. Click on OK.
  - d. Select object(s) you wish to change to a different layer.
  - e. Right click on object, select Properties, change the Layer.

### **Saving File**

7. Save your file as type “AutoCAD 2004 DXF (\*.dxf)”.

### **Converting File**

8. You must now convert your DXF file to GDS file format by using linkCAD. Use the linkCAD Quick Start instructions.