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Student Name

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High School or Vocational Center

**COMPETENCY RECORD FOR ARTICULATION**

**Baker College**

To successfully complete this course, all performance objectives must be fulfilled with a minimum score of 80%. This will be determined through testing and lab projects.

**CAD 112 COMPUTER AIDED DRAFTING II (CAD II)**

<b>Task</b>	<b>Satisfactory</b>	<b>Unsatisfactory</b>
Apply the drawing editor and enter commands using the dynamic input, mouse, or keyboard.		
Determine the area of an object by adding and subtracting entities.		
Organize data related to a single point, entity, group of entities, or an entire drawing.		
Apply the TIME command to determine the amount of time spent in a drawing session.		
Assess the meaning and use of file extensions.		
Demonstrate the ability to copy, rename, and delete files.		
Establish AutoCAD dimensioning styles to conform with drafting standards.		
Demonstrate the ability to override existing dimensioning variables.		
Prepare drawings with dimensions and tolerances from engineering sketches.		
Modify dimensioning variables to perform specific dimensioning and tolerancing operations.		
Identify and use dual dimensioning techniques.		
Apply associative dimensioning.		
Apply changes to existing dimension entities with the UPDATE, HOMETEXT and NEWTEXT commands.		
Apply sections and dimensioning practices to draw objects given engineering sketches.		
Demonstrate how to draw sectional material using the HATCH and SOLID commands.		

<b>Task</b>	<b>Satisfactory</b>	<b>Unsatisfactory</b>
Analyze and edit a block and update it in a drawing.		
Construct and use a symbol library of blocks.		
Reference existing blocks to new drawings.		
Assign visible or hidden values (attributes) to blocks and edit attributes in existing blocks.		
Create attribute values in a bill of materials using the ATTDEF command.		
Understand the nature of isometric and oblique views.		
Construct an isometric grid and construct isometric objects.		
Apply isometric text styles.		
Demonstrate isometric dimensioning techniques.		
Apply the Iso-grid and Iso-snap commands to create isometric drawings.		
Utilize the ELEV, HIDE, and VPOINT commands to draw, edit and display 3D shapes.		
Explain the right-hand rule of the UCS.		
Create 3D text, face drawings, and surface modeled objects using previously drawn AutoCAD drawings.		
Apply 3D coordinates.		
Create and use VIEW PORTS.		
Apply 3D surface modeling techniques utilizing EDGESURF, RULESURF, TABSURF, and REVSURF commands.		
Apply solid modeling details to align, rotate, mirror, array, and change properties of 3D objects.		
Apply the 3D Orbit Icon tool bar.		
Create complex solids using UNION and SUBTRACT commands.		
Create revolved solids.		
Create multiple intersecting extrusions.		
Apply copying, cutting, and pasting between drawings.		

Teacher signature \_\_\_\_\_ Date \_\_\_\_\_