THREE RIVERS COMMUNITY COLLEGE COURSE OUTLINE

Course Number/Title: CAD K107 Computer A	ided Drafting Lab	
Lecture <u>0</u> hrs Laboratory <u>4</u> hrs	Credit 2 hrs	Contact 4 hrs
Course Description: This AutoCAD course teach drawings using a current release of the software.	es the student how	to create 2D and 3D
Method: The student received hands-on training of	on individual works	stations.
Text: AutoCAD 2007, Tickoo		
Prerequisites: None	Co-Requisites:_	CAD K106
COURSE TOPICS/O	CONTENT	
 Hardware Overview Menu Systems Data Entry Entities and Their Options Prototype Drawings Drawing Aids Display Manipulations Text Editing; Grips Inquiry File Management Basic Dimensioning Techniques Multi-view Drawings Sections; Hatching Polyline Editing Dimension Styles Blocks and Reference Files Attributes Paper Space User Coordinate System 	TOTAL HOURS	HOURS .5 1.5 2.0 8.0 4.0 1.0 1.0 1.0 9.0 1.0 6.0 6.0 2.0 1.0 3.0 3.0 3.0 3.0 2.0 4.0 : 60
Date: February 13, 2008		
Prepared By: Ron Greenier	_	
Program Coordinator: Robert Lantz	_	
Department Chairperson: Tony Benoit	_	

Measurable Objectives

The student will be able to:

- 1. Describe the computer hardware configuration and Format a diskette.
- 2. Input commands from the keyboard, the screen menu, and the pull-down means.
- 3. Locate points using rectangular and polar coordinate systems in both absolute and relative formats.
- 4. Draw parts using LINE, ARC, CIRCLE, POINT, POLYGON, PLINE, ELLIPSE, SOLID, and DONUT.
- 5. Set up ANSI standard prototype drawing sheets that include layers and line types.
- 6. Effectively utilize SNAP, GRID, and ORTHO settings in conjunction with OSNAP overrides.
- 7. Manipulate the display with PAN, VIEW, and ZOOM options.
- 8. Locate text on a drawing, change text fonts, and apply text styles.
- 9. Modify and construct with ERASE, CHANGE, MEASURE, DIVIDE, FILLET, CHAMPFER, TRIM, MOVE, ALIGN, ROTATE, COPY, MIRROR, ARRAY, SCALE, SELECT, BREAK, EXTEND, OFFSET, and STRETCH using GRIPS where appropriate.
- 10. Extract entity information using AREA, ID, LIST, DBLIST, and DIST.
- 11. Copy, delete, rename, and unlock files and list directory information.
- 12. Dimension a drawing according to industry/ANSI standards.
- 13. Draw a part showing orthographic and auxiliary views.
- 14. Draw sectional views and graphical patterns.
- 15. Draw and edit polylines.
- 16. Establish dimension styles.
- 17. Create blocks, and insert blocks and XREFs.
- 18. Apply attributes to blocks, and extract attribute information.
- 19. Generate multi-view Paper Space plots.
- 20. Draw a wire-frame model using the User Coordinate System.