A. **Course Description**

- **Credits:** 5.00
- **Lecture Hours/Week:** 2.00
- **Lab Hours/Week:** 3.00
- **OJT Hours/Week:** 0
- **Prerequisites:** None
- **Corequisites:** None
- **MnTC Goals:** None

This is the first course in Computer Aided Design (CAD) labwork for Civil Engineering Technology Students using AutoCAD software. It will present the fundamentals of AutoCAD including but not limited to command structure, setting units and limits, drafting primitives, layering, use of editing tools, grid, snap, and axis commands. The assignments require extensive use of the Civil Engineering Technology CAD lab. Prerequisites: None.

B. **Course Effective Dates:** 8/22/16 – Present

C. **Outline of Major Content Areas**

As noted on course syllabus

D. **Learning Outcomes**

1. Adjust layers and object properties
2. Create section views and multiview drawings
3. Design and insert blocks with and without attributes
4. Dimension drawings
5. Do basic pencil drawings and sketch basic objects
6. Draw and modify drawings with AutoCAD
7. Place raster images and vector files into drawings
8. Place text and tables in drawings
9. Print and plot drawings
11. Set up drawings
12. Use annotative objects
13. Use inquiry commands, the Design Center, and Tool Palettes
14. Use references, and object linking and embedding
15. View and manipulate drawings
16. Work in paper space with viewports and borders
17. Work with drawing files

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted