This course will introduce the beginning architectural technology student to computer-aided design programs currently being used in professional design offices. Fundamental concepts, commands, and tools of a C.A.D. environment will be taught with a hands-on approach to learning. Students will complete self-paced drafting exercises.

**B. Course Effective Dates:** 8/1/00 – Present

**C. Outline of Major Content Areas**

As noted on course syllabus

**D. Learning Outcomes**

1. Attend instructor demonstrations
2. Create and maintain project folder
3. Create and maintain student folder
4. Create arcs
5. Create circles
6. Create new drawing layer
7. Create orthographic lines
8. Create rectangles
9. Create unconstrained lines
10. Demonstrate an understanding of Auto Cad tools
11. Demonstrate an understanding of the project
12. Demonstrate organization skills
13. Demonstrate professionalism
14. Dimension elevations
15. Dimension plans
16. Dimension section
17. Fit drawing image to screen window
18. Make design development building section
19. Make design development elevations
20. Make design development floor plans
21. Master Auto Cad settings
22. Master drawing commands
23. Master hatch commands
24. Master the use of model space
25. Modify elevations
26. Modify plans
27. Modify section
28. Plot Cad drawings
29. Position horizontal dimensions
30. Position vertical dimensions
31. Research alternative CAD applications
32. Select convert to line tool
33. Select drawing attributes
34. Select drawing grid
35. Select drawing preferences
36. Select fillet tool
37. Select font size
38. Select font type
39. Select from layer options menu
40. Select text size
41. Select text style
42. Select trim tool
43. Set appropriate drawing layer
44. Use copy command
45. Use duplicate command
46. Use mouse as pointer
47. Use move command
48. Use paste command
49. Use pulldown menu commands
50. Use rotate command
51. Use select all command
52. Use undo command
53. Write elevation notes
54. Write plan notes
E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted