

# Dakota County Technical College

## IDES 1111: Drafting I

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 3

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers basic skills for generating and reading manual and computer-aided drawings for design and construction. Students will learn industry graphic standards for 2-dimensional drawings, including line quality and drawing nomenclature. Industry standard formatting for various drawing types and sheet sizes will be addressed.

**B. COURSE EFFECTIVE DATES:** 08/27/2012 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

#### **D. LEARNING OUTCOMES (General)**

1. Demonstrate architectural lettering
2. Demonstrate industry standard line quality
3. Draft a dimensioned floor plan
4. Draft a floor plan
5. Draft appliance symbols
6. Draft electrical symbols
7. Draft elevations
8. Draft lighting and switch symbols
9. Draft plumbing fixture symbols
10. Draft telecommunication symbols
11. Draft title block
12. Draft various line types and weights
13. Identify AutoCAD Model Space
14. Identify architectural drafting symbols
15. Identify architectural sheet sizes
16. Identify contract documents
17. Identify detail drawings
18. Identify drafting paper types
19. Identify drafting tools
20. Identify elevation drawings
21. Identify line types and line weights
22. Identify schedules
23. Identify section drawings
24. Identify title block
25. Identify uses and benefits of CAD
26. Maintain drafting desk
27. Plot electronic drawing file
28. Use architectural scale
29. Use drafting tools
30. Utilize ACAD draw commands
31. Utilize ACAD inquiry commands
32. Utilize ACAD layer properties manager
33. Utilize ACAD modify commands
34. Utilize ACAD properties commands
35. Utilize ACAD view commands
36. Utilize correct file management
37. Utilize prototype drawing file

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

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted