ARCHITECTURAL TECHNOLOGY STUDIO I — ARCT 1000

A. Course Description
   ○ Credits: 5.00
   ○ Lecture Hours/Week: 4.00
   ○ Lab Hours/Week: 1.00
   ○ OJT Hours/Week: 0
   ○ Prerequisites: None
   ○ Corequisites: None
   ○ MnTC Goals: None

This course will introduce the beginning architectural technology student to drafting standards and techniques used in both hand and CAD drafting. Students will learn to draw plans, sections, elevations and details for residential projects and the graphic conventions used to communicate information on these drawings. Sustainable building principles will be applied to the commercial projects.

B. Course Effective Dates: 8/27/12 – Present

C. Outline of Major Content Areas
   As noted on course syllabus

D. Learning Outcomes
   1. Apply drafting techniques to produce technical drawings
   2. Apply proper lines weight and line types
   3. Apply sustainable practices
   4. Complete all required exterior elevations for residential project
   5. Layout drawing sheets adhering to industry standards
   6. Prepare Door and Window Schedules using manufacturer’s literature
   7. Prepare Millwork Drawings
   8. Prepare a Site Plan for residential project
   9. Prepare a complete bound set of working drawings for a residential project
   10. Prepare a cross-section of a residential structure
   11. Prepare a foundation plan for residential project
   12. Prepare floor plan(s) for residential project
   13. Prepare technical notes for residential architectural drawings
   14. Produce an exterior wall section and construction details for residential project
15. Select building components
16. Select building materials for residence
17. Use Industry standard method for dimensioning interior and exterior walls
18. Use Industry standard technical symbols and abbreviations
19. Use industry standard drawing standards
20. Use proper lettering size and style
21. Use scales and scale notation to ensure accurate technical drawings

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

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted