ARCH 1031: Building Systems

A. COURSE DESCRIPTION
   Credits: 2
   Lecture Hours/Week: 2
   Lab Hours/Week: 0
   OJT Hours/Week: *.*
   Prerequisites:
   This course requires the following prerequisite
   ARCH 1000 - Residential Construction
   Corequisites: None
   MnTC Goals: None
   The architectural technician needs to understand all components of a building, including: plumbing, heating/air conditioning and ventilation (HVAC), electricity and insulation R-values. An overview of each component will be covered through lecture, illustrated examples and projects. (Prerequisites: ARCH 1000)(2 credits lecture/0 credits lab)

B. COURSE EFFECTIVE DATES: 05/22/2006 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. HVAC system
   2. Plumbing system
   3. Electrical systems
   4. Insulation techniques

D. LEARNING OUTCOMES (General)
   1. Compute building assembly R-Values.
   2. Calculate building heat loss.
   3. Illustrate water supply system.
   4. Sketch schematic ductwork layout.
   5. Sketch schematic electrical layout.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted