TADT 3240: Construction Materials and Practices

A. COURSE DESCRIPTION
   Credits: 3
   Lecture Hours/Week: *.*
   Lab Hours/Week: *.*
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   Comprehensive study of construction materials, their characteristics, applications and testing.
   Prerequisite(s): Junior status or consent of instructor.

B. COURSE EFFECTIVE DATES: 08/25/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Concrete
   2. Design & Contracting
   3. Doors & Windows
   4. Finishes
   5. HVAC
   6. Masonry
   7. Metals
   8. Properties of Materials
   9. Special Construction
   10. Sustainable Considerations
   11. Thermal & Moisture Protection
   12. Utilities
   13. Woods, Plastics & Composites

D. LEARNING OUTCOMES (General)
   1. learn to read, interpret, and understand construction drawings.
   2. develop the ability to make intelligent decisions about the materials used in building based on the drawings and specifications.
   3. develop knowledge of materials as they fit-into and relate to construction projects.
   4. understand building & engineering technology as it relates to construction materials.
   5. understand the role of sustainable (green) construction as it related to the environment.
   6. understand the role of the engineer, draft-person/designer or architect as it relates to a construction project.
   7. become familiar with construction concepts, materials and practices.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None
F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted