

# Bemidji State University

## 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