A. Course Description

- **Credits:** 3.00
- **Lecture Hours/Week:** 3.00
- **Lab Hours/Week:** 0.00
- **OJT Hours/Week:** 0
- **Prerequisites:** None
- **Corequisites:**
  - ARCT 1500: Architectural Technology Studio II
- **MnTC Goals:** None

This course will examine the characteristics and properties of common, as well as new and sustainable, commercial building materials such as: concrete materials, formwork, reinforcement, steel frame construction, lightweight steel framing, metals, curtainwalls, etc. These methods and materials, including sustainable principles, will be applied to Studio II projects. Corequisite: ARCT1500.

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

C. **Outline of Major Content Areas**

   As noted on course syllabus

D. **Learning Outcomes**

1. Analysis a building and be able to to create details for vertical and horizontal structural connections
2. Define key terms of heavy steel construction and be able to demonstrate understanding with architectural drawings.
3. Define key terms of lightweight metal construction and be able to demonstrate understanding with architectural drawings.
4. Design a setup construction documents for concrete and heavy weight steel construction

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

F. **Learner Outcomes Assessment**

   As noted on course syllabus
G. Special Information

None noted