INTRODUCTION OF SUSTAINABLE BUILDING — ARCT 1040

A. Course Description
   - Credits: 3.00
   - Lecture Hours/Week: 3.00
   - Lab Hours/Week: 0.00
   - OJT Hours/Week: 0
   - Prerequisites: None
   - Corequisites: None
   - MnTC Goals: None

Once thought of as unconventional and nonstandard, sustainable/green building has become accepted as a socially responsible and logical means of construction. This course will introduce the student to sustainable/green architecture and some of the innovative materials and design concepts that are quickly becoming the standard. The course will cover core topics such as: LEED and other certification programs, health and safety, site and land use, materials and waste, and water.

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

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

D. Learning Outcomes
   1. Apply LEED standards
   2. Create healthy environments
   3. Define green building
   4. Discuss environmentally and socially responsible means of construction
   5. Reduce waste with efficient building design
   6. Specify sustainable building materials
   7. Understand "sick buildings"
   8. Understand LEED
   9. Understand Minnesota Greenstar
   10. Understand sustainable construction and its principles
   11. Understand that construction waste can be reduced
   12. Understand the concept of high-performance green building
   13. Understand the economic and health benefits of sustainable building
14. Understand the economics of green building
15. Understand the impact of building design on energy consumption
16. Understand the impact of building orientation

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

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted