BUILDING CODES AND REGULATIONS — ARCT 1520

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

   The goal of this class is to provide you with a fundamental understanding of the International Building Code (IBC), the Americans with Disabilities Act and Energy Codes. The class emphasizes Health, Safety, Welfare (HSW) topics such as: building codes, fire codes, accessibility issues, and environmental issues. Prerequisites: Prior to, or currently enrolled in, ARCT1500, ARCT1207 and ARCT1540.

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

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

D. Learning Outcomes
   1. Calculate the number of plumbing fixtures required
   2. Calculate the occupant load and determine the required means of egress capacity
   3. Determine accessibility requirements for signage
   4. Determine the accessibility requirements for various egress components of the building
   5. Determine the required number of exits
   6. Determine the requirement for door hardware, including: panic hardware, door latching devices, door opening, and requirements for power-operated doors.
   7. Determine the requirements for arrangement of the means of egress facilities
   8. Determine the requirements for design of egress elements, including: corridors, stairway and exit enclosure, lobbies, vestibules, areas of refuge, and horizontal exits
   9. Determine the requirements for exit access widths in smoke-protected assembly seating
   10. Determine the requirements for fire-resistance-rated construction for egress elements, including: corridors, stairway and exit enclosures, lobbies, vestibules, areas of refuge,
and horizontal exits
11. Determine the requirements for locations and amounts of means of egress lighting and signage
12. Determine various accessibility requirements throughout the building
13. Evaluate the adequacy of a horizontal exit as part of a means of egress plan
14. Evaluate the adequacy of accessible means of egress
15. Evaluate the means of egress in assembly spaces
16. Identify the seven fundamental means of egress design issues
17. List and describe each of the three parts of a means of egress

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

F. Learner Outcomes Assessment
   As noted on course syllabus

G. Special Information
   None noted