CARP 1115: Emerging Construction Technologies 1

A. COURSE DESCRIPTION
   Credits: 2
   Lecture Hours/Week: 1
   Lab Hours/Week: 2
   OJT Hours/Week: *
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None
   This course provides knowledge of new tools, methods, and equipment being used in the construction industry (Prerequisite: none) (2 credits: 1 lecture/1 lab)

B. COURSE EFFECTIVE DATES: 02/06/2018 - Present

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Introduction to Geosystems
   2. Explore the Use of Lasers
   3. Discover Methods of Building Layout and Placement

D. LEARNING OUTCOMES (General)
   1. Exhibit and observe safety rules
   2. Use new equipment to lay out building lines
   3. Use lasers to establish heights
   4. Use of lasers to set finishes
   5. Calculate solar energy
   6. Installation on solar panels
   7. Building air sealing
   8. Green building solutions
   9. Identify waterproofing techniques
   10. Identify problem areas for moisture
   11. Identify different uses for modern flashings
   12. Perform energy efficient retrofits to existing structures

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted