

Minnesota State College Southeast

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