

Minnesota State College Southeast

CARP 2215: Emerging Construction Technologies 2

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 the theory and practice to complete commercial systems, modern concrete practices, advanced door hardware, and sustainable building techniques. (Prerequisite: CARP 1115 Emerging Construction Technologies 1) (2 Credits: 1 lecture/1 lab)

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Advanced Commercial Door Hardware Systems
2. Decorative Concrete Technologies
3. Green Building Techniques
4. Building Air Leakage and Insulation

D. LEARNING OUTCOMES (General)

1. Exhibit and observe safety rules
2. Identify decorative concrete practices
3. Identify uses of concrete sealers
4. Knowledge of access controls and their effect on the building process
5. Identify air sealing techniques and materials
6. Layout buildings on GPS location system
7. Install advanced door hardware
8. Identify uses of laser screed
9. Knowledge of different concrete placement practices
10. Identify laser calibration
11. Discover technical advances for onsite communication
12. Identify keying schedules
13. Identify sprinkler system uses
14. Special commercial and residential practices
15. Identify sustainable solutions
16. Design a sustainable building
17. Knowledge of innovative tools and equipment

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted