

1. Course Number and name

CE 4158 Coinstruction Methods Lab

2. Credits and contact hours

1 credit hour

3. Instructor's or course coordinator's name

Austin Marshall

4. Textbook

American Institute of Construction Level 1 Exam Study Guide

5. Specific course information

- a. Course Description: An understanding of construction communication skills, contracts, delivery methods, materials, methods, bidding, estimating, cost control, scheduling, safety and geomatics in preparation to take the American Institute of Construction Level 1 Certification Exam.
- b. Required course in the program

6. Specific goals for the course:

a. Specific outcomes include students be able to:

- **identify, formulate, and solve complex engineering problems by applying principles of engineering and mathematics**
- **apply engineering design to produce solutions that meet the needs of public safety**
- **analyze and interpret data and use engineering judgment to draw conclusions**

7. Explicit connection to student outcomes: 1,2, and 6

8. Topics to be covered:

- | | |
|---------------------------|-----------------------|
| a. Construction Contracts | f. Communications |
| b. Estimating, Scheduling | g. Geomatics |
| c. Equipment | h. Safety |
| d. Materials | i. Excavation Support |
| e. Bidding | j. Soil Mechanics |