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

Prepared by Adeeba Raheem, April 2021