

# CE4381 Senior Construction Project Syllabus

Instructors: Professor Austin Marshall and Dr. Adeeba Raheem

Office: Engineering A214

Office Phone: 915.747.5765

Email: [asmarshall@utep.edu](mailto:asmarshall@utep.edu)

Office Hours: By appointment scheduled through email

Class Meeting Time, Location: to be assigned

Final Exam: There will be no final exam but final report and a presentation are required

Course Description: Final construction engineering and management construction project involving predesign, cost estimating, material selection and procurement, equipment selection and methods, onsite material staging and delivery, sequencing, scheduling, safety, close out procedures through commissioning. Students will analyze an actual project and prepare a summary report detailing all aspects of their analysis. Students will present the results of their project at the conclusion of the effort.

Required Text: None. Students will be provided with a procedure manual involving required steps for this project analysis.

Project Selection: Student teams will be given a project to analyze in this class by the Instructors.

Class Procedure: Students will meet with faculty once per week to discuss each step in the project analysis process. Project teams of students will be formed to work on this class project as a team in or before the first class. Students will have deadlines each week to complete and submit results of each week's tasks. Deliverables must be submitted on Blackboard by midnight on Saturday at the end of each class week. Late submittals will not be graded.

Course Grading: Grading will be based as follows: (Each deliverable must be submitted by the deadline below to receive any grading points. Grading of each deliverable will be based on completeness and accuracy)

<u>Task</u>	<u>Deliverable Deadline</u>	<u>% of Final Grade</u>
1. Define pre-design tasks	End of week 1	5
2. Outline cost and schedule Of pre-design tasks	End of Week 2	5
3. Material takeoff	End of week 3	5
4. Construction Methods	End of week 4	5
5. Define sequencing	End of Week 5	5

6. Equipment Requirements	End of Week 6	5
7. Material selection/ Procurement	End of Week 7	5
8. Material Staging Needs	End of Week 8	5
9. Develop schedule	End of Week 9	5
10. Safety requirements	End of Week 10	5
11. Closeout/Commissioning Requirements	End of Week 11	5
12. Final Cost Estimate	End of Week 12	10
13. Final Report	End of Week 13	20
14. Present Analysis to Class	End of Week 14	10

**TOTAL AVAILABLE POINTS TOWARDS FINAL GRADE = 100 based on the above percentages per deliverable.**

**Grades will be assigned as follows:**

<u>TOTAL POINTS</u>	<u>FINAL GRADE</u>
90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
Below 60	F