

COETC COURSE MAP

Course Name: Open AEC 226 Construction Scheduling	
Instructor Name:	
Course Competencies:	
Discusses various methods of project scheduling. Emphasis will be placed on critical path method techniques and strategies.	
<ol style="list-style-type: none"> 1. Define project activities. 2. Create a network and bar chart schedule manually. 3. Analyze a network schedule manually using the critical path method. 4. Interpret a network schedule, including early and late completion dates and floats. 5. Utilize scheduling software to create and analyze a critical path schedule. 6. Assign resources to a schedule and develop cash flow forecasts. 	

Course Materials (Text, Edition and any other publisher items)

Textbooks and/or Resources:

Construction Scheduling: Principles and Practices, 2nd edition
 Jay S. Newitt
 Prentice Hall

Module # and Title	CCNS Competencies	Instructional Materials	Activities: Learner Interaction & Engagement	Assessments and Rubrics
1. Project Management Basics	1	<ul style="list-style-type: none"> Read Overview of Project Management Basics PM Overview.ppt 		
2. Planning	1	<ul style="list-style-type: none"> Read Why Schedule; Checklists, To-Do Lists, Magnetic Scheduling Boards Why Schedule.ppt Simple Scheduling Techniques.ppt 	Bar Chart Assignment	Chapter 2 Application Questions
3. Scheduling	2,3	<ul style="list-style-type: none"> Read Bar Charts, CPM Scheduling, Network Logic Diagram Bar Charts.ppt CPM Intro.ppt 		

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		<ul style="list-style-type: none"> • Creating Logic Diagrams.ppt 		
4. Durations, Start and Finish Dates	2,3	<ul style="list-style-type: none"> • Read Durations; Start and Finish Dates • Durations.ppt • Calculating Start and Finish Dates.ppt 	Activity on Node Network Logic Diagram	
5. Floats and Lags	4	<ul style="list-style-type: none"> • Read Floats; Lags • Float Types.ppt 		
6. Analyzing and Reporting	3,4	<ul style="list-style-type: none"> • Read Analyzing; Reporting • Reviewing the Schedule.ppt • Bar Charts and Tabular Reports.ppt 	Residential CPM Scheduling Assignment	Exam 1
7. Linear Schedules	4	<ul style="list-style-type: none"> • Read Linear Schedules; Updating the Schedule • Linear Schedules.ppt • Updating the Schedule.ppt 		
8. Forecasting and Balancing Resources	5	<ul style="list-style-type: none"> • Read Forecasting and Balancing Resources • Forecasting and Balancing Resources.ppt 	Resource Loading Assignment	
9. Cost Schedule Control and System Criteria	4,5,6	<ul style="list-style-type: none"> • Read Cost Schedule Control and System Criteria • Cost Schedule Control.ppt 		
10. Teamwork	4,5,6	<ul style="list-style-type: none"> • Read Teamwork and Subcontractors • Teamwork and Subcontractors.ppt 	MS Project Assignment	
11. Other Scheduling Techniques	3	<ul style="list-style-type: none"> • Read Other Scheduling Techniques • Other Scheduling Techniques.ppt 		
12. CPM Scheduling and Managing Projects using MS Project	5	<ul style="list-style-type: none"> • Read CPM Scheduling and Managing Projects • Intro to Computerized CPM.ppt • Managing Projects with MS Project.ppt 	Highway Overpass Assignment	Exam 2
13. Intro to Final Project	1-6	<ul style="list-style-type: none"> • Project Guidelines.pdf 	Introduction of Final Project	Major Project

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14. Final Project			Final Project	Project
15. Review / Final Exam			Review/ Final Exam	Project / Final Exam