CONS 74 Course Outline as of Spring 1993

CATALOG INFORMATION

Dept and Nbr: CONS 74 Title: CONST. SCHEDULING
Full Title: Construction Project Scheduling
Last Reviewed: 2/9/2015

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.50	Lecture Scheduled	3.00	8	Lecture Scheduled	24.00
Minimum	1.50	Lab Scheduled	0	8	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	24.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 48.00 Total Student Learning Hours: 72.00

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	

Catalog Description:
Construction scheduling methods are explored. Bar charts, S-Curves, Logical sequencing, and network diagrams are presented. CPM is explored through the consideration of planning for construction, developing timing estimates, early and late starts, and "float". The use of the schedule to monitor and control the project progress and costs is discussed.

Prerequisites/Corequisites:
Course Completion of CONS 70A (or CONS 70) and Course Completion of APTECH 90A (or CET 90A)

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: Construction scheduling methods are explored. Bar charts, S-Curves, Logical sequencing & network diagrams are presented. CPM is explored through the consideration of planning for construction, developing timing estimates, early & late starts, and "float". The use of the schedule to monitor & control the project progress & costs is discussed. (Grade Only)

Prerequisites/Corequisites: Course Completion of CONS 70A (or CONS 70) and Course Completion of APTECH 90A (or CET 90A)
Recommended:
Limits on Enrollment:
Transfer Credit: CSU;
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**			Effective:	Inactive:
CSU GE:	**Transfer Area**			Effective:	Inactive:
IGETC:	**Transfer Area**			Effective:	Inactive:
CSU Transfer:	Transferable	Effective:	Spring 2009	Inactive:	Fall 2021
UC Transfer:		Effective:		Inactive:	

CID:

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:
Upon completion of this course the student will:
1. Demonstrate proficiency with different scheduling methods.
2. Develop a project schedule using CPM (manual).
3. Demonstrate ability to use schedules as a tool in the monitoring and control of a project.

Topics and Scope:

Planning for construction
Construction schedules and construction costs
Scheduling methods: Bar charts, S-Curves, Logical sequencing, Network diagrams
Role of the computer
Developing a project schedule: fundamentals of CPM, diagramming alternatives, timing estimates, early and late starts, "float", personnel estimates
Monitoring a project: progress schedule, summary bar chart, project status report
Cost control co-ordination
Case study

Assignment:

Requirements for planning a construction project
Bar charts, S-Curve, Logical sequencing, network diagrams

CPM fundamentals - introduction
CPM diagramming
Developing the timing estimates and personnel estimates
Early and Late start diagramming
"Float" diagramming
Progress schedule
Summary Bar Chart
Project status report
Interpreting a case study
Preparing a CPM schedule

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.	Writing 0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams	Problem solving 20 - 30%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Class performances, PROJECT BASED WORK	Skill Demonstrations 30 - 50%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion	Exams 10 - 30%

Other: Includes any assessment tools that do not logically fit into the above categories.

CLASS PARTICIPATION	Other Category 5 - 10%

Representative Textbooks and Materials:
To Be Decided