

COURSE OUTLINE
ARCM-225
Construction Scheduling
3 Credits

HOWARD COMMUNITY COLLEGE

Description

This course is an introduction to the Critical Path Method (CPM) of construction project scheduling. The emphasis is on preconstruction planning, project procurement, construction sequencing, schedule preparation and reporting. Prerequisite: ARCM-200. (2 hours lecture, 2 hours lab)

Overall Course Objectives

Upon completion of this course, the student will be able to:

1. Identify project tasks and activities.
2. Recognize the relationship between project tasks.
3. Identify time parameters for an activity and their effect on overall duration.
4. Identify critical path activities.
5. Organize group and subgroup activities for major project components.
6. Identify the different types of schedule formats.
7. Establish and update the project baseline schedule.
8. Establish cost and resource requirements for each scheduled activity.
9. Apply the successor and predecessor relationships for each scheduled activity.
10. Interpret Early Start, Late Start, Early Finish, and Late Finish dates for the project schedule.

Major Topics

- I. Project Planning
 - A. Time Frame
 - B. Site Analysis
 - C. Procurement Constraints
 - D. Staging
 - E. Project Sequencing
- II. Schedule Types
 - A. Bar Chart Schedule
 - B. Critical Path Schedule
- III. Critical Path Analysis
 - A. Calculating the Critical Path
 - B. Float Schedule
 - C. Recovery/Acceleration
 - D. Claims For Time

- IV. Reports
 - A. Baseline
 - B. Updates
 - C. Other Types of Reports

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will be calculated on the basis of exams, homework assignments and group projects.

Other Course Information

This course is required in the Architectural and Construction Management Program.