

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: BLD 247

Credits: 3

Course Title: Construction Planning and Scheduling

Course Description: Introduces principles of planning and scheduling of a construction project. Includes sequence of events and processes on a construction site. Studies scheduling techniques, including the critical path method. Lecture 3 hours per week.

General Course Purpose: Course indoctrinates the student to the process of creating a formal schedule of tasks required to complete a typical commercial project. Emphasis on construction sequencing and precedence relationships. Also resource leveling. Most efficient cost scheduling considered. This course is required for the Building Construction Management specialization of the Architectural and Engineering Technology AAS degree.

Course Prerequisites and Co-requisites:

None

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Use network planning techniques (ADM and PDM) to prepare construction schedules;
- b. Develop and level resource requirement histograms using the cost estimate and construction schedule;
- c. Recognize the implications of changing construction conditions on the management of the project; and
- d. Use the computer for project management, in particular Microsoft Project 2016 or later.

Major Topics to Be Included:

- a. Introduction and history
- b. Bar charts
- c. ADM and PDM
- d. Resources and leveling
- e. Cost reporting
- f. Control and monitoring
- g. Computer applications

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