

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

Course Prefix and Number: BLD 299

Credits: 3

Course Title: Supervised Study in Building: 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. Students in this class will be required to work off campus with a contractor and contribute to their business using scheduling software and actual project assignments. Suitability of assignments approved by course instructor. This course is a suitable substitute for BLD 247, which 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.

Major Topics to Be Included:

- a. Introduction and history
- b. Bar charts