Course Prefix and Number:  BLD 299

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
c. ADM and PDM
d. Resources and leveling
e. Cost reporting
f. Control and monitoring
g. Computer applications

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