



## BCCM 2460

**Division:** Career and Technical Education

**Department:** Building Construction and Construction Management

**Course:** BCCM 2460

**Title:** Construction Scheduling and Cost Control

**Catalog Description:**

This course provides instruction in the planning and scheduling of construction projects. Students learn construction project control through use of critical path, Gantt bar charts, and reporting practices using microcomputers.

**General Education Requirements:** N/A

**Semesters Offered:** Spring

**Credit/Time Requirement:** Credit: 2; Lecture: 2; Lab: 0

**Clock/Hour Requirements:** 0

**Offered for Non-Credit:** No

**Prerequisites:** N/A

**Corequisites:** N/A

**Justification:**

Planning and scheduling is an important aspect of effective construction. From recommendation of advisory committee and to enclose BYU transfer track, the course is needed.

**Student Learning Outcomes:**

Upon successful completion of this course, students will be able to:

- learn the necessary skills to adequately schedule and control residential, commercial, industrial, manufacturing, engineering, or business projects
- generate bar charts and critical path networks, including early finish, late finish, durations, float, and identification of the critical activities which effect the timely completion of the project
- schedule construction projects using computers and read computer printouts.

**Content:**

Course objectives will be accomplished by providing students with learning experiences in the following subject areas:

- Developing the Schedule
  - Introduction to planning and scheduling
  - Elements of a plan
  - Determine overall objectives and duration
  - Early and late start calculations
  - Early and late finish calculations
  - Float or slack time calculations
  - Total float, free float, string float, independent float
  - Lags
  - Network logic to include dependence, concurrence, and precedence
  - Identification of critical activities
  - Updating techniques
- Project Control Techniques (Time and Money)
  - Bar charts
- Project Monitoring
  - Progress charts and curves
  - Check sheets
- Computerized Scheduling Techniques
- Cost control, as it relates to scheduling.

**General Education Outcomes:**

**Applied Education Outcomes:**

1) Students will acquire entry-level skills specific to and appropriate for employment in their chosen field of study.

Students will be able to complete a computerized schedule for the construction of a residential building.

**Key Performance Indicators:**

The assessment for the class will be determined by:

- computer-developed schedules of an actual construction project (30%)
- ratings of practice problems and assignments (40%)
- scores on faculty-developed tests from the assignments, practice problems, and objectives of the course (30%).

Percentages are approximate.

**Representative Text and/or Supplies:**

- Newitt, Jay S., *Construction Scheduling Principles and Practices*, current edition, Pearson Prentice Hall Publishers.



**Signatures:**

I hereby submit this course syllabus:

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Officer Robert Wright, ,

I hereby find this course consistent with the goals and resources of the Building Construction and Construction Management Department:

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Marlin Christensen, M. Ed., Instructor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

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Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

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Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

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Michelle Olsen, MLS, Campus Librarian (Richfield Campus)