

### COURSE LEARNING OBJECTIVES:

1. Calculate construction project cost performance by measuring costs to-date, projecting remaining costs, and calculating variances at completion.
2. Analyze construction labor cost performance using earned value, trending, and variance analysis.
3. Prepare a construction project cash flow forecast using the project budget and time schedule.
4. Make capital acquisition decisions using time value of money concepts.

### PLANNED IMPROVEMENTS USING TEAM-BASED LEARNING PRINCIPLES

- Create detailed learning outcomes from course learning objectives.
- Establish diverse teams for the semester.
- Convert lecture material to a course book to be read prior to learning module.
- Include review questions to guide the readings.
- Quiz students over the reading to assess their readiness.
- Develop lectures for topics identified as 'not ready' by the reading quizzes.
- Develop application exercises using active-learning techniques.
- Discuss homework solutions in class.
- Quiz students on homework-type problems to assess learning.
- Have students rate the contributions of all of the other members of their team.
- Administer two exams – 50% of grade.

### REASONS FOR INCORPORATING ACTIVE LEARNING IN BCM 475

- Provides greater opportunity to incorporate real-world scenarios for senior students.
- Reinforces important material, concepts, and skills.
- Provides more frequent and immediate feedback to students.
- Addresses different student learning styles.
- Provides students with an opportunity to think about, talk about, and process course material.
- Creates personal connections to the material for students, which increases their motivation to learn.
- Allows students to practice important skills, such as collaboration, through pair and group work.
- Builds self-esteem through conversations with other students.
- Creates a sense of community in the classroom through increased student/student and instructor/student interaction.

<http://www.cte.cornell.edu/teaching-ideas/engaging-students/active-learning.html>

### Support Team

*Left to right*

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BCM 475 In Class Exercise