

JRYM 105: PROJECT MANAGEMENT DEVELOPMENT FOR COMMERCIAL CONSTRUCTION LEVEL 1

Foothill College Course Outline of Record

Heading	Value
Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Student Learning Outcomes

- Students will be able to:
 1. Produce a commercial construction estimate that demonstrates the skills of a project manager including, defining the scope of the project, identifying all risks and costs of a project, and develop a labor crew mix strategy.
 2. Develop and present a lean presentation that demonstrates critical thinking of how to apply skills of a project manager communication, planning, and scheduling to increase efficiency and reduce costs of a construction project.

Description

In this course students will learn the roles and responsibilities of a commercial construction project manager. Students will learn topics that cover the entire life cycle of a construction project. Lecture and exercises will entail pre-construction planning, estimating, project monitoring, and project closeout.

Course Objectives

The student will be able to:

- Understand and identify project life cycle phases
- Develop, and model communication skills required to coordinate team members' contributions and responsibilities
- Develop and demonstrate proficient leadership and presentation skills
- Organize, understand, and develop/write industry standard project documents
- Describe and apply LEAN pre-planning and scheduling practices
- Develop and understand how to create and present marketing presentations
- Develop and apply negotiation skills

Course Content

- Understand and identify project life cycle phases
 1. Pre-construction, construction, and closeout
 2. Responsibilities and task in each project phase and provide examples
 3. Guest speaker, individual, partner, and group exercises

- Develop and model communication skills required to coordinate team members' contributions and responsibilities
 1. Lecture overview, individual assignment, followed by small group discussion
 2. Speaking, listening, and decoding
 3. Team building exercises, group project, and guest speakers
 4. Communication style assessment, StrengthsFinder assessment, and listening evaluation
 5. Student's awareness and improvement
- Develop and demonstrate proficient leadership and presentation skills
 1. Myers-Briggs assessment
 2. Value identification exercises
 3. Personal mission statement
 4. Group presentation exercises
 5. Daily class journal exercises
- Understand, organize, and develop industry standard project documents
 1. Industry standard documents
 2. Understand and create request for proposal (RFP)
 3. Understand and create a request for information (RFI)
 4. Understand and create submittal, change order, budgets, and closeout documents
 5. Develop a construction estimate from take-off, pricing, and scope letter
 6. Weekly review
- Understand and apply LEAN pre-planning and scheduling practices
 1. Concepts in 2 Second LEAN by Paul Ackers
 2. Weekly journal applying LEAN concepts
 3. Guest speakers with interactive activities
- Understand and apply business development, marketing, and negotiating concepts and strategies
 1. Marketing concepts are taught through lecture, video, and guest speakers
 2. Team building and negotiation exercises in group project assignment
 3. Group presentation selling the scope of work to the client

Lab Content

- Students will work individually, in partners, and in teams on estimating, presentations, and preparing construction documents.

Special Facilities and/or Equipment

- Laboratory with internet enabled computers
- AV equipment and overhead projector
- Video camera

Method(s) of Evaluation

- Results of daily written exercises, weekly homework assignments, and final presentation
- Satisfactory completion of bid and proposal presentation
- Class participation and exercises

Method(s) of Instruction

- Lecture
- Lab assignment
- Group discussion
- Presentation

Representative Text(s) and Other Materials

Project Management Institute. Construction Extension to the PMBOK Guide. 6th ed. Newtown Square, PA: Project Management Institute, Inc., 2016.

Akers, Paul. 2 Second LEAN. 3rd ed. Ferndale, WA: Fast Cap Press, 2014.

Rath, Tom. 2 StrengthsFinder. 3rd ed. New York, NY: Gallup Press, 2004.

NOTE: Although one or more of these texts is/are older than the recommended 5 years, they conform to national training standards and are considered seminal works in the discipline. We will adopt the next edition of each text, as it is published.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

A. Textbook: 2 Second LEAN

1. Readings: Students will read the entire book
2. Writing: Students will prepare a written report and presentation of the 2 Second LEAN

B. Textbook: Project Management Institute

1. Readings: Students will be assigned selected readings from the book
2. Writings: Students will apply reading in construction project management documentation planning and preparation exercises

C. Textbook: StrengthsFinder

1. Readings: Students will read the strengths as indicated from the computer-based assessment
2. Writings: Students will create goals based on the strengths

Discipline(s)

Plumbing, Steamfitting, Air Conditioning, Refrigeration, Heating