# JRYM 105: PROJECT MANAGEMENT DEVELOPMENT FOR COMMERCIAL CONSTRUCTION LEVEL 1

## **Foothill College Course Outline of Record**

Heading	Value
Effective Term:	Summer 2025
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**

- 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.
- 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:

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

#### **Course Content**

- 1. Understand and identify project life cycle phases
  - a. Pre-construction, construction, and closeout
  - b. Responsibilities and task in each project phase and provide examples

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

- 1. Laboratory with internet enabled computers
- 2. AV equipment and overhead projector
- 3. Video camera
- 4. When taught as an online/hybrid distance learning section, students
- and faculty need ongoing and continuous internet and email access

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

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

Methods of Instruction may include but are not limited to the following:

Lecture Lab assignment Group discussion Presentation

#### Representative Text(s) and Other Materials

Project Management Institute. <u>Construction Extension to the PMBOK</u> <u>Guide, 6th ed.</u> 2016.

Akers, Paul. 2 Second LEAN, 3rd ed. 2014.

Rath, Tom. StrengthsFinder, 3rd ed.. 2004.

Although these texts 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

- 1. Textbook: 2 Second LEAN
  - a. Reading: Students will read the entire book
  - b. Writing: Students will prepare a written report and presentation of the 2 Second LEAN
- 2. Textbook: Project Management Institute
  - a. Reading: Students will be assigned selected readings from the book
  - b. Writing: Students will apply reading in construction project management documentation planning and preparation exercises
- 3. Textbook: StrengthsFinder
  - a. Reading: Students will read the strengths as indicated from the computer-based assessment
  - b. Writing: Students will create goals based on the strengths

# **Discipline(s)**

Plumbing OR Steamfitting OR Air Conditioning, Refrigeration, Heating