

CM Program Vision, Mission, Objectives, and Learning Outcomes

Vision Statements

1. Construction is one of the most important of human endeavors.
2. Successful construction management requires the integration of business, science, and technology.
3. A successful construction manager must be able to learn and apply new and existing technologies.
4. The delivery of construction projects will be transformed by emerging technologies.
5. Construction management will play a vital role in creating a sustainable future.
6. Integrity is the most important asset of successful construction managers.

Mission Statements

1. Provide the knowledge, skills, and values to enable graduates to become leaders in the construction industry.
2. Provide the student with a balanced program in different disciplines of construction including architecture, engineering, methods of construction, and project management.
3. Provide management and supervisory personnel for the construction industry.

Student Learning Objectives

Graduates from the CM Program will be able to:

1. Create documents and communications appropriate to the construction industry.
2. Critically examine essential ideas and concepts appropriate to the construction industry.
3. Apply knowledge, skills, and technology appropriate to the construction industry.
4. Understand important methods and concepts appropriate to the construction industry.

Student Learning Outcomes

Graduates from the CM Program will be able to:

1. Create written communications appropriate to the construction discipline.
2. Create oral presentations appropriate to the construction discipline.
3. Create a construction project safety plan.
4. Create construction project cost estimates.
5. Create construction project schedules.
6. Analyze professional decisions based on ethical principles.
7. Analyze construction documents for planning and management of construction processes.
8. Analyze methods, materials, and equipment used to construct projects.
9. Apply construction management skills as an effective member of a multi-disciplinary team.
10. Apply electronic-based technology to manage the construction process.
11. Apply basic surveying techniques for construction layout and control.
12. Understand different methods for project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.
13. Understand construction risk management.
14. Understand construction accounting and cost control.
15. Understand construction quality assurance and control.
16. Understand construction project control processes.
17. Understand the legal implications of contract, common, and regulatory law to manage a construction project.
18. Understand the basic principles of sustainable construction.
19. Understand the basic principles of structural behavior.
20. Understand the basic principles of mechanical, electrical and plumbing systems.