

A.S. IN CONSTRUCTION MANAGEMENT

Today's construction industry utilizes construction management best practices to oversee, manage and control the scope, schedule, budget, quality, safety and risk during all stages of its projects life-cycle (planning, design, pre-construction, construction and closeout). Successful completion of construction management courses prepares students for construction management entry-level opportunities in one of many functions and/or positions that support the construction project management team. For students who already have prior construction industry experience, this program will prepare them for potential promotional opportunities.

Learning Outcomes

A.S. Degree Level Student Learning Outcomes

Students completing the Construction Management A.S. Degree will:

1. Apply effective communication, both orally and in writing.
2. Apply quantity takeoff skills for bidding or budgeting purposes on a construction project.
3. Apply the aptitude to schedule a basic construction project.
4. Apply current technology related to the construction industry.
5. Apply the interpretation of construction documents (contracts, specifications, and drawings) used in managing a construction project.
6. Apply basic principles of construction accounting.
7. Apply basic surveying techniques used in building layout.
8. Understand basic principles of ethics in the construction industry.
9. Understand the fundamentals of contracts, codes, and regulations that govern a construction project.
10. Understand basic construction methods and materials.
11. Understand basic safety hazards on a construction site and standard prevention measures.
12. Understand the basic principles of structural design.
13. Understand the basic principles of mechanical, electrical and plumbing systems.

Program learning outcomes are established in alignment with the American Council for Construction Education (ACCE) Student Learning Outcomes to provide the student with the listed knowledge, skills and abilities.

Requirements

This degree requires meeting the Citrus College General Education and proficiency requirements combined with successful completion (grades of "C" and above) of the following major requirements:

Code	Title	Units
Required courses:		
CM 110	Introduction and Fundamentals of Construction Management	3
CM 120	Plans Reading	2

Code	Title	Units
CM 121	Construction Contract Documents, Codes and Specifications	2
CM 130	Surveying Methods and Applications	3
CM 140	Construction Materials, Methods and Assembly	2
CM 150	Current Technology Applications in Construction	2
CM 210	Construction Project Safety	3
CM 270	Construction Equipment and Methods	3
CM 275	Construction Estimating	3
CM 281	Principles of Mechanical, Electrical and Piping Systems	2
CM 282	Principles of Structural Design	2
CM 290	Construction Planning, Scheduling and Control	3
CM 295	Construction Project Management Capstone	3
Total Units		33

Curriculum Map

2-Year Curriculum Map Example

This map represents one possible pathway through the program and is only for reference.

*It is highly recommended that you make an appointment (<https://www.citruscollege.edu/stdntsrvcounsel/Pages/ApptSchedule.aspx>) to create a customized education plan that fits your needs.

Note: Substitute ENGL 101E (5 units) may be needed based on placement.

Course	Title	Units
Fall Term 1		
CM 110	Introduction and Fundamentals of Construction Management	3
CM 120	Plans Reading	2
CM 210	Construction Project Safety	3
COUN 208	Pathways in Career and Technical Education	3
MATH 144	Technical Mathematics	5
Units		16
Winter Term 1		
CM 150	Current Technology Applications in Construction	2
ENGL 101 or ENGL 101H	Reading and Composition or Reading and Composition - Honors	4
Units		6
Spring Term 1		
CM 121	Construction Contract Documents, Codes and Specifications	2
CM 130	Surveying Methods and Applications	3
CM 140	Construction Materials, Methods and Assembly	2

2 A.S. in Construction Management

Course	Title	Units
ARCH 250 or ARCH 251 or ART 100 or MUSE 113 or THEA 101 or THEA 101H	History of Architecture: Prehistory to Mannerism or History of Architecture: Baroque to the Present Day or Art History - Fundamentals of Global Art History or History of Rock and Roll or Introduction to Theatre Arts or Introduction to Theatre Arts - Honors	3
Units		10
Summer Term 1		
CM 270	Construction Equipment and Methods	3
Units		3
Fall Term 2		
CM 275	Construction Estimating	3
CM 281	Principles of Mechanical, Electrical and Piping Systems	2
CM 290	Construction Planning, Scheduling and Control	3
ANTH 212	Introduction to Physical Anthropology	3
ANTH 212L	Introduction to Physical Anthropology Lab	1
Units		12
Winter Term 2		
ETHN 101 or ETHN 116	Introduction to Ethnic Studies or Introduction to Chicano/Latino Studies	3
SPCH 100 or SPCH 100H or SPCH 101 or SPCH 101H or SPCH 106	Interpersonal Communication or Interpersonal Communication - Honors or Public Address or Public Address - Honors or Small Group Communication	3
Units		6
Spring Term 2		
CM 282	Principles of Structural Design	2
CM 295	Construction Project Management Capstone	3
ENGL 290 or ENGL 293 or ENGL 293H or ENGL 298 or KIN 166 or PHIL 101 or SOC 130	Ethnic Voices in Film or Children's Literature or Children's Literature - Honors or Literature of the Bible or American Food And Culture: Global Origins, History, and Current Impacts or Great Religions of the World or Introduction to LGBTQ Studies	3
KIN 170 or KIN 171 or KIN 171H or KIN 173	Fitness for Life or Health and Wellness in Society or Health and Wellness in Society - Honors or Introduction to Nutrition	3
HIST 107 or HIST 107H or HIST 108 or HIST 108H or POLI 103 or POLI 103H	History of the United States before 1877 or History of the United States before 1877 - Honors or History of the United States since 1877 or History of the United States since 1877 - Honors or American Government and Politics or American Government and Politics - Honors	3
Units		14
Total Units		67

Career Information

Career Opportunities

There are a variety of careers you can do with this major.

To explore more about this major, schedule an appointment (<https://www.citruscollege.edu/stdntsrv/ctcenter/Pages/ApptSchedule.aspx>) with a career counselor.