CONSTRUCTION MANAGEMENT

Construction Management uses the industry’s best practices to oversee, manage and control the scope, schedule, budget, quality, safety and risk during all stages of a construction project lifecycle (planning, design, pre-construction, construction and closeout). Successful completion of construction management courses prepares students for entry-level construction management opportunities, either in leadership or in one of many support specialist positions such as assistant construction manager, quality control manager, construction coordinator, contract administrator, construction inspector or safety inspector. For students who already have prior construction industry experience, this program may prepare them to assume even higher level positions. Depending on experience, students may be qualified for employment in higher level positions such as construction manager, project manager, superintendent and/or crew-supervisor.

Contact Information

Division
Career, Technical and Continuing Education

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Courses

CM 110
Introduction to Construction Management
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter

Strongly recommended: ENGL 101.
This course is a survey of the various functions, tasks, activities and environments of Construction Management and its disciplines. It covers the various aspects of residential, commercial and heavy civil construction, including today's applicable common practices, recognized standard construction documents, codes, regulations, basic means and methods, systems, processes, key participants, professional ethics, as well as current and future trends. Emphasis is in examining the various construction management disciplines and career opportunities; helping prepare students for their Construction Management career and serving the construction industry at large.

CM 120
Construction Documents and Blueprint Reading
3 Units (AA/AS; CSU)
54 lecture hours, 10 lab hours
Grade Mode: Standard Letter

Strongly recommended: ENGL 101.
Introduction to key construction documents used in the construction management process, including contracts, addendums, general and special conditions, drawings, specifications, building codes, regulations; course includes a basic examination of the order of precedence of documents and their application in the construction management process. Blueprint reading and laboratory activities for various types of construction plans and details will be introduced in the course.

CM 130
Construction Survey Methods and Applications
2 Units (AA/AS; CSU)
36 lecture hours, 10 lab hours
Grade Mode: Standard Letter

Prerequisite(s): CM 120.
This course covers the theory and practice of plane surveying use of tools, instruments and methods for measuring distances, angles, elevations, topographic information, building layout; course covers use of surveying software, level and total station.

CM 140
Vertical and Horizontal Construction
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter

Prerequisite(s): CM 120.
Introductory course to residential, commercial and heavy civil construction, including structural building systems and components, construction/assembly methods, utilities, subsurface improvements, and construction terminology.

CM 145
Construction Inspection and Materials Testing
3 Units (AA/AS)
54 lecture hours
Grade Mode: Standard Letter

Prerequisite(s): CM 110.
This course provides a comprehensive overview of construction inspection and materials testing processes relevant to the building and general engineering construction, including surface and subsurface construction improvements; consideration will be given to examining the various types of inspections, code versus contracts, inspection records, duties, responsibilities, and compliance and resolution, and interpersonal communication skills. Emphasis will be on exploring the various career opportunities.

CM 150
Computer Applications in Construction
1 Unit (AA/AS; CSU)
18 lecture hours, 6 lab hours
Grade Mode: Standard Letter

Prerequisite(s): CM 110 and CM 120.
This course covers applications of computer systems commonly utilized in today's construction industry, including applications that are used in the construction management processes such as planning, estimating, scheduling, cost control, quality and safety.
CM 155
Special Inspection - Reinforced Concrete
3 Units (AA/AS)
54 lecture hours
Grade Mode: Standard Letter
Prerequisite(s): CM 110.
This course provides a comprehensive overview of Special Inspection and testing processes relevant to reinforced concrete performed in permitted building construction, including the duties and responsibilities of the special inspector as mandated by respective Authority Having Jurisdiction (AHJ). Emphasis is on preparing students to become qualified to inspect and document reinforced concrete construction from pre-placement through post-placement operations. Successful completion of this course will prepare a student to pursue licensure by the Los Angeles Department of Building & Safety (LADBS) as a Deputy Building Inspector (Special Inspector).

CM 210
Construction Project Safety
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter
Prerequisite(s): CM 110.
Introduction to construction project safety, OSHA requirements, Injury and Illness Prevention Program (IIPP), roles, functions, common construction hazards, accident costs, liability laws, field safety methods and controls.

CM 270
Construction Means, Methods and Equipment
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter
Prerequisite(s): CM 140 and CM 150.
This course studies the means, methods, materials and equipment employed by contractors in building and general engineering construction projects. Topics include fundamentals of excavation, grading, trenching and earthmoving operations, including volume calculation and mass diagrams, soil remediation and dewatering systems, foundations, equipment operations and safety, selected construction materials, basic environmental practices, management and economics.

CM 280
Safety Program Management
3 Units (AA/AS)
54 lecture hours
Grade Mode: Pass/No Pass, Standard Letter
Prerequisite(s): CM 210.
An overview of the planning, development, implementation and management of a comprehensive safety program. Topics covered include construction safety principles, methodologies, and best management practices. Emphasis is on the roles that construction managers, superintendents, forepersons, crew chiefs and other construction supervisors, who are charged with responsibilities to maintain safe worksite conditions, and the duties they fulfill in supporting an effective safety program. Successful completion of this course prepares qualified students to pursue certification as a Safety Trained Supervisor - Construction (STSC) by the Board of Certified Safety Professionals.

CM 285
Construction Quality Management
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter
Prerequisite(s): CM 110, CM 150 and CM 270.
Introduction to quality management in construction, the system and its supporting elements. Course addresses quality compliance, audits and reporting, including the development and implementation of Construction Contractor Quality Control Plan.

CM 290
Construction Project Management
3 Units (AA/AS; CSU)
54 lecture hours
Grade Mode: Standard Letter
Prerequisite(s): CM 270.
This course provides an overview of the practice of construction project management from conception through construction and closeout. Emphasis is on integration of knowledge, principles, tools, techniques and skills essential for students to assume leadership roles in professionally diverse team environments while managing constraints related to project’s budget, schedule, scope, quality and safety.

Programs

Associate Degrees

Certificates of Achievement
- Construction Inspection (http://catalog.citruscollege.edu/disciplines/construction-management/construction-inspection-certificate-achievement)
- Construction Management (http://catalog.citruscollege.edu/disciplines/construction-management/construction-management-certificate-achievement)
- Construction Quality Control (http://catalog.citruscollege.edu/disciplines/construction-management/construction-quality-control-certificate-achievement)

Skill Awards
- Special Inspection - Reinforced Concrete (http://catalog.citruscollege.edu/disciplines/construction-management/special-inspection-reinforced-concrete-skill-award)