

CERTIFICATE IN CONSTRUCTION MANAGEMENT

THE PROGRAM

This program provides the necessary training and skills to become a construction manager. The coursework is designed for engineers, contractors, designers and others in the construction industry. The required courses cover the fundamentals of construction management including construction costs and estimating, planning and management of construction projects, and legal issues and contracts. Following the required courses, students may select from a broad list of electives designed to complement their background and skills.

INDUSTRY CONNECTION



Endorsed by The Baldy View and Desert Chapters of the Building Industry Association of Southern California (BIASC). For membership and event information, visit www.biasc.org.

OBJECTIVES

This program provides the skills and training to:

- Effectively manage projects, schedules, staff and budgets
- Estimate and control costs and minimize change orders
- Supervise the job site
- Manage work with subcontractors, clients, suppliers, architects, government agencies and others
- Develop strategies to manage workflow and quality
- Understand legal requirements and minimize exposure to lawsuits
- Manage and minimize risk and insurance costs
- Understand and effectively manage contracts
- Navigate accounting requirements and cash flow
- Perform negotiations and use conflict resolution strategies and methods

WHO CAN BENEFIT

Professionals who directly or indirectly supervise construction projects, staff and/or clients. Also, the program is well suited for city planning staff, subcontractors, developers, land planners, investors and individuals who have interests in real estate and development. The program is taught by leading professionals in the construction industry with superb teaching qualifications and professional expertise in the field.

ADMISSION

The program and courses are open to anyone who can benefit from university-level study, including persons who are not certificate candidates but who are interested in specific topics.

TO ENROLL IN THE CERTIFICATE PROGRAM

An enrollment form must be filed along with a nonrefundable application fee. Participants intending to complete the program and receive a certificate should apply at least one quarter prior to expected completion of the certificate. The nonrefundable fee covers academic advisement, tracking of progress/completion and updates on program changes and additions. Certificate enrollment forms are available in Extension's quarterly catalog, at Student Services, in program department offices and on the Web site at www.extension.ucr.edu/certificates.

SCHEDULING OF CLASSES

Generally, certificate candidates may complete the program within one year. Courses are typically offered one evening a week for 6-10 weeks.



PROGRAM INFORMATION:

Contact the Department of Business and Management:

Phone: (951) 827-1600

Fax: (951) 827-7374

E-mail: bet@ucx.ucr.edu

Web Site: www.extension.ucr.edu

CERTIFICATE PROGRAM at a glance

CONSTRUCTION MANAGEMENT

COMPLETION REQUIREMENTS

To earn this certificate, participants must successfully complete (grade C or better) the three required courses and eight elective units for a total of 18 units.

REQUIRED COURSES

Construction Management

Management X471.7 (4 units)

Introduction to the principles and concepts of project management and construction management. Students examine fundamental project planning and management tools, contracts, subcontract formation and management, as well as public agencies with which construction managers commonly interact. Topics include defining and controlling the scope of a project, costs, material estimating, project scheduling, controlling quality management, risk management, construction design and material, functions, as well as the role and responsibilities of the construction manager.

Construction Project Planning, Scheduling and Control Systems

Management X471.6 (3 units)

Planning, scheduling and controlling construction projects with examination of various topics: cost control, contracts, client relations, project manuals, crisis management, claims management and scheduling methods like bar charts, network diagrams and Critical Path Method (CPM). Explores the trade-offs of time vs. cost vs. quality of construction. Also discusses purchasing, monitoring and control of long-lead items and the “fast track” process from design through construction completion.



Fundamentals of Construction Costs, Estimating and Budgeting

Management X471.2 (3 units)

This course provides an overview of the procedures and techniques for estimating construction project costs. Topics include preparation of quality surveys; development of material, labor and equipment costs; and pricing of contractor and subcontractor work from blueprints and working plans.

ELECTIVES

- Construction Law (2 units)
- Construction Budget, Accounting and Contract Management (3 units)
- Project Scheduling Using Primavera (3 units)
- Construction Field Supervision (2 units)
- Principles of Risk and Insurance Management (4 units)
- Urban Drainage: Hydrology and Hydraulics (3 units)
- Safety and Loss Control in Risk Management (4 units)
- Microsoft Project (2 units)
- Fundamentals of Road Design (3 units)
- GIS in Real Estate Development Projects (1.5 units)

