

Bachelor of Science in Construction Management



According to the National Center for Educational Statistics, "Construction Management is a program that prepares individuals to manage, coordinate, and supervise the construction process from concept development through project completion on timely and economic bases. Includes instruction in commercial, residential, mechanical, highway/heavy civil, electrical, environmental, industrial, and specialty construction; facilities management; project planning; budgeting and cost control; logistics and materials management; personnel management and labor relations; site safety; construction contracting; construction processes and techniques; organization and scheduling; and applicable codes and regulations."

Program Overview

The goals of the B.S. degree in Construction Management are to prepare effective managers for public and private construction projects, to prepare the workforce required by the construction industry, and to enable high school graduates, transfer students and working professionals to assume leadership roles in the construction industry. Special attention is given to promote students participating in internships and working professionals with classes offered mainly at times convenient to students.

Ideal Students

Freshman and transfer students desiring to work in the vibrant construction industry, managing large construction projects.

Program Outcomes

Students graduating with a B.S. in Construction Management from Cal State East Bay will:

- Have knowledge in the core construction management areas (construction materials and methods, safety, codes, scheduling, commissioning, planning and control, project management, construction law, cost accounting, human resources management, environmental and safety issues in construction)
- Have knowledge in broad areas of construction management beyond the core areas
- Have the ability to communicate effectively
- Have the ability to function in teams
- Have the knowledge of sustainable building and construction techniques and relevant state regulations

- Have an awareness of the complex environment (involving professional and ethical responsibilities) in which they will practice their profession
- Have the ability to educate themselves and be prepared for lifelong learning and professional development
- Have experience in solving real life problems.

Career Opportunities

With the expected increase in large infrastructure work, there is considerable demand for individuals who can technically and scientifically manage construction projects. The construction industry as a whole is one of the largest industries in the nation with a great need for skilled project managers. Sample jobs are construction manager, site manager and others.

Admission Requirements

The B.S. in Construction Management is open to individuals planning a career or advancing their career in the construction industry and who meet general university requirements for freshmen or transfer students (refer to on-line catalog).

Contact Information

School of Engineering at:
construction@csueastbay.edu
 Tel: 510.885.2654, Fax: 510.885.2678
www.csueastbay.edu/engineering/



Bachelor of Science in Construction Management

P R O G R A M C U R R I C U L U M

Lower division (32)

ACCT210	Introduction to Financial Accounting
CHEM110	General Chemistry for Engineering
CMGT101	Introduction to Construction Management
CMGT142	Construction Graphics and Plans Reading
CMGT206	Construction Material
CMGT207	Construction Methods
ECON200	Principles of Microeconomics
MATH130	Calculus I
PHYS125	Principles of Physics-I
PHYS126	Principles of Physics-II
PSYC100	General Psychology

Upper Division (44)

CMGT310	Statics and Strength of Materials
CMGT320	Construction Law
CMGT325	Electrical and Mechanical Systems in Construction
CMGT340	Construction Cost Estimating
CMGT345	Building Codes and Commissioning
CMGT350	Construction Project Planning, Scheduling and Control
CMGT360	Soils Mechanics and Building Foundations
CMGT410	Building Information Modeling
CMGT430	Environmental Issues and Green Building
CMGT440	Construction Project Management
CMGT480	Construction Safety
CMGT492	Senior Project
MGMT312	Human Resources Management
Elective	



CALIFORNIA STATE
UNIVERSITY
EAST BAY

Where all your possibilities come into view.