



# SACRAMENTO STATE

## COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

### Construction Management

Construction Management is the management of the fascinating and complex process that results in the built environment – the roads, bridges, buildings and industrial facilities – upon which we all depend. It involves organizing a wide variety of skilled workers and specialists and leading them in the implementation of the plan, monitoring progress against baseline objectives, and making adjustments to ensure that the goals originally set forth are achieved. The construction industry needs per-



*Challenging Construction Management project*

sonnel with the entrepreneur's spirit – resourceful, imaginative, determined, well-educated problem solvers – to accomplish its tasks. Communication skills, business acuity, engineering knowledge, and an understanding of the changing society that the industry serves are essential to success in the profession.

### Constructor

The Sacramento State Construction Management degree prepares students for managerial positions with contractors and other organizations involved in the construction process. For a graduate, this preparation can combine with experience and lead to recognition as a construction professional—a constructor.

The construction professional is responsible for the execution of construction work, for the creation of completed projects from plans prepared by design professionals such as architects and engineers. What is to be built is defined by design professionals; how the work is to be accomplished is the concern of the constructor. A constructor is the master of the construction process; master of the process that involves determining the methods to be used, and directing the economical application of resources, in the construction of timely and safe projects at satisfactory prices, and to the required standards of quality.

The immediate objective of the program is to provide university-level preparation for the managerial positions in construction and a foundation for continued learning. The curriculum emphasizes subject areas that are significant to the constructor: engineering fundamentals, construction management, business administration, humanities and social sciences, and the development of analytical and communication skills.

### Career Opportunities

Students who graduate from programs in construction management have virtually unlimited opportunities in construction-related industries. Sacramento State graduates are involved in commercial, industrial, and residential construction, civil engineering and specialty contracting projects, as well as forensic construction, construction scheduling, bridge construction, environmental remediation, and real estate development work, among many other careers. Graduates may choose to be employed by an international or national construction company, or to be employed in one of numerous regional contracting companies within the state of California. Those students desiring to be self-employed have equally compelling opportunities upon graduation from construction management programs.

### The Construction Management Program at Sacramento State

To prepare for the demands of the professions, our nationally accredited Construction Management Program at Sacramento State offers a broad curriculum emphasizing engineering fundamentals, construction management, business administration, arts, humanities, social sciences, and analytical and communication skills. Our emphasis is practical: in the classroom, students learn from current case studies and solve real-world problems provided by full and part time faculty, alumni and advisors from the industry. The summer and part time employment that we help our students obtain in construction and allied fields augments theoretical knowledge.

Sacramento State offers a Bachelor of Science, Construction Management (BSCM) incorporating a Minor in Business Administration – a rare distinction in U.S. construction management programs. The curriculum consists of three distinct components.

1. The engineering component, based in the sciences and mathematics, stresses engineering principles and their applications to the construction process. This component provides engineering fundamentals that have enabled graduates to take the Engineer-in-Training (EIT) exam.

2. The construction management component utilizes the functional approach as a framework for studying the management of the construction process. In the individual courses, construction activities are analyzed from a managerial viewpoint and the functions of management are stressed.
3. Courses in business administration, the supporting field, form the third component and reinforce the program's management emphasis. Furthermore, completing the Business Administration minor requirements can satisfy many core requirements of the graduate program in Business Administration at Sacramento State.



*CSUS Foley Residence Hall, Constructed by Brown Construction (CSUS Alumni Ron Brown), "Evening with Industry" student/industry event*

Overall, the curriculum provides the balanced content that is essential to the success of construction professionals. This unique program is fully accredited by the American Council for Construction Education (ACCE).

## Faculty and Students

The Construction Management Program has 3 full time faculty and several part time instructors. Faculty members in the civil engineering program also teach some construction management courses.

The Construction Management faculty has expertise in the major areas of construction management, which are engineering, business, law, construction materials and processes, and project management.

Students generally come into our program as transfers from junior college; however, with appropriate preparation (trigonometry, chemistry, and mechanical drawing) students may enter the program directly from high school. Upon admittance to the CM program, students receive personalized attention from the full-time CM faculty members throughout their academic careers at Sacramento State. Significant scholarship opportunities are available to construction management students, who typically work

part time in the industry. Many are active in the Construction Management Student Association (CMSA). One of the highlights of CMSA's activities is a 3-day regional and national estimating competition in which more than 100 student teams from the U.S. compete for the top three places in Design/Build, Heavy/Highway, Residential, Commercial Building, Pre-construction, Mechanical, and Electrical construction, using actual projects presented and evaluated by industry representatives. Participation in the Construction Management Student Association also provides other opportunities to interact with professional construction managers. All of the graduates find full-time employment – usually prior to graduation – in the \$45,000-\$70,000 per year range.

## For more information:

### Construction Management Program

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Visit our website at: [www.ecs.csus.edu/cm](http://www.ecs.csus.edu/cm)

### College of Engineering and Computer Science

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Visit our website at: [www.ecs.csus.edu](http://www.ecs.csus.edu)

Information is available on current job listings and salary ranges for graduates, on the College Career Services website at: [www.ecs.csus.edu/career](http://www.ecs.csus.edu/career)

### Admissions and Records

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Applications are accessible at: [www.csumentor.edu](http://www.csumentor.edu)

### Financial Aid

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Visit our website at: [www.csus.edu/faid](http://www.csus.edu/faid)

