CONCRETE INDUSTRY MANAGEMENT

Concrete Industry Management Program (http://www.csuchico.edu/cim/)
O'Connell Center 324
530-898-6483
Email: cim@csuchico.edu
Program Coordinator: Nick Steinberg

Insight
The Concrete Industry Management program at California State University, Chico is one of the only four CIM programs in the United States. This program—the only one of its kind on the West Coast—was created with the financial support of concrete industry executives, who are eager to employ its interns and graduates. The program at Chico State combines concrete technology with business administration to prepare men and women for a wide variety of professional careers in the concrete industry.

Experience
More than 50 national and local companies support the program, which has received over $5.5 million in donations from its industry supporters. This degree program is truly a joint initiative between industry and academia. Concrete companies and professional organizations are active, ongoing partners. Industry supplies students and faculty with advice, feedback, monetary donations, scholarships, equipment, supplies, training, and funded research.

Each year the program offers more than $50,000 in scholarships for eligible students based on academic performance, improvement, leadership potential, and/or financial need. For more information regarding CIMT scholarships, visit the Concrete Industry Management website (https://www.csuchico.edu/cim/). In addition, CIM majors have had success in receiving scholarships from related organizations, colleges, and the University.

Outlook
This professional degree program addresses an identified need for technical professionals in the concrete industry. The career opportunities for CIM graduates are excellent. Examples of entry-level positions available immediately upon graduation include:

Production and project management
  • Ready mixed concrete plants
  • Precast/prestressed plants
  • Quarry operations
  • Concrete projects managers
  • Concrete subcontracting

Sales and marketing
  • Concrete and concrete products
  • Cement and admixtures
  • Equipment
  • Contracting services

Other areas
  • Concrete specialist
  • Field engineer
  • Quality control technician

Programs
Undergraduate
Bachelor's
  • Concrete Industry Management BS (https://catalog.csuchico.edu/colleges-departments/college-engineering-computer-science-construction-management/concrete-industry-management/concrete-industry-management-bs/)

See Course Description Symbols and Terms (https://catalog.csuchico.edu/academic-standards-policies/course-description-symbols-terms/) for an explanation of course description terminology and symbols, the course numbering system, and course credit units.

CIMT 101 Introduction to Concrete 1 Unit
Corequisites: May be taken concurrently with CIMT 231 with faculty permission.
Typically Offered: Fall only
An overview of the history, career opportunities, job functions, and professional organizations in the concrete industry. Students are introduced to the Concrete Industry Management curriculum, its instructional expectations and methodologies. 1 hour discussion. (020294)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 1 unit
Course Attributes: Lower Division

CIMT 125 Concrete Projects Drawings Reading 2 Units
Prerequisite: CIMT 101 and MATH 119 both with a grade of C- or higher.
Typically Offered: Spring only
This course covers reading and interpreting drawings related to concrete projects. This course includes a detailed study of drawings of concrete foundation, piers, slabs, walls, and frames. 2 hours activity, 1 hour discussion. (021714)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 2 units
Course Attributes: Lower Division; Laptop required

CIMT 198 Special Topics 1-3 Units
Prerequisite: To be established when course is formulated.
Typically Offered: Inquire at department
Special topics are generally offered one time only. Different sections may have different topics. See the Class Schedule for specific topics being offered. A maximum of 6.0 units of special topics may be counted toward the major. 3 hours discussion. (020296)
Grade Basis: Graded
Repeatability: You may take this course more than once
Course Attributes: Lower Division
CIMT 227 Safety Practices and Management 3 Units
Typically Offered: Spring only
This course covers Occupational Safety and Health Administration (OSHA) regulations, policies, and procedures for concrete and construction industry as well as safety and health principles (OSHA 1926 standards). The course also includes Mine Safety and Health Administration (MSHA) New Miner Training certification. 3 hours discussion. (021641)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division

CIMT 231 Fundamentals of Concrete Properties & Testing 3 Units
Prerequisite: CIMT 101 with a grade of C- or higher; CHEM 107; MATH 119 or MATH 120.
Typically Offered: Fall only
Effects of concrete-making materials (aggregates, cements, admixtures, etc.) on the properties of fresh and hardened concrete. Concrete mixture proportioning calculations and statistical analysis of strength tests are also studied. 2 hours discussion, 3 hours laboratory. (020297)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division

CIMT 241 Concrete Construction Methods 3 Units
Prerequisite: CIMT 231 with a grade of C- or higher.
Typically Offered: Spring only
Forming, shoring, placing, and reinforcing operations. Transporting, placing, consolidating, finishing, jointing, and curing concrete for cast-in-place foundations, pavements, on-ground slabs, structural frames, and other structural members are studied. Other topics include waterproofing concrete foundations and erecting precast concrete members. 3 hours discussion. (020298)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Lower Division

CIMT 298 Special Topics 1-3 Units
Prerequisite: To be established when course is formulated.
Typically Offered: Inquire at department
Special topics are generally offered one time only. Different sections may have different topics. See the Class Schedule for specific topics being offered. A maximum of 6.0 units of special topics may be counted toward the major. 3 hours discussion. (020299)
Grade Basis: Graded
Repeatability: You may take this course more than once
Course Attributes: Lower Division

CIMT 325 Concrete Project Estimating and Bidding 3 Units
Prerequisite: CIMT 125; CIMT 241; MATH 119 or MATH 120.
Typically Offered: Fall only
This course focuses on estimating and contracting procedures for concrete projects from a concrete subcontractor perspective. Topics include concrete, formwork, and steel reinforcement takeoff and cost estimation as well as bidding and contracting procedures. 2 hours activity, 2 hours discussion. (021643)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Laptop required

CIMT 348 Concrete Repair and Restoration 3 Units
Prerequisite: CIMT 241 with a grade of C- or higher, PHYS 202A.
Typically Offered: Fall only
This course provides an understanding of historic concrete building practices leading to informed evaluation and repair of older structures for reuse. The causes of service failures, including material failure, improper design, maintenance failure, and environmental effects are studied. The presentation of case studies in failure analysis and repair approaches occur throughout the course, along with participation in ongoing, long-term studies of repair systems. 2 hours activity, 2 hours discussion. (020300)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division

CIMT 363W Sustainability and the Built Environment (W) 3 Units GE, W
Prerequisite: GE Oral Communication (A1); GE Written Communication (A2); GE Critical Thinking (A3); GE Mathematics/Quantitative Reasoning (B4) requirements, or consent of the instructor.
Typically Offered: Fall and spring
An introduction to the fundamental concepts of sustainability. Special emphasis is placed on understanding the interaction of the built environment with natural systems, and the role of technical and non-technical (economic, ecological, ethical) issues in shaping engineering decisions. Issues such as green buildings/developments, renewable energies, and concrete’s role in helping to meet LEED certification are discussed. This course is open to engineers and non-engineers interested in all aspects of the built environment. A grade of C- or higher is required for CIMT majors. 3 hours discussion. (020301)
General Education: Upper-Division Scientific Inquiry/Quantitative Reasoning (UBD); Sustainability and Climate Change Pathway
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course; Writing Course

CIMT 365 Advanced Concrete Technology 3 Units
Prerequisite: CIMT 231 with a grade of C- or higher.
Typically Offered: Spring only
This course covers advanced concrete properties, test methods, and mix designs. Topics include high performance concrete (HPC), self-consolidating concrete (SCC), pervious concrete, mass concrete, roller compacted concrete (RCC), decorative concrete, and fiber reinforced concrete. Corresponding ASTM and ACI standards and guidelines are covered. 2 hours discussion, 3 hours laboratory. (021789)
Grade Basis: Graded
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division; Sustainable Course; Writing Course

CIMT 389 Concrete Industry Internship 1-3 Units
Prerequisite: CIMT 125 and CIMT 241 (may be taken concurrently) with a grade of C- or higher and approval of faculty internship coordinator.
Typically Offered: Spring, summer, fall
Technical and managerial experience in an industrial setting with opportunities to apply course work to professional practice. Students are evaluated by their supervisor, and a final report must be submitted by each student detailing the internship experience. The minimum duration is 400 hours under the direct supervision of an on-site manager in a concrete-related company. 0 hours independent study. (020305)
Grade Basis: Credit/No Credit
Repeatability: You may take this course for a maximum of 3 units
Course Attributes: Upper Division
Concrete Industry Management Program

The Faculty

Mohammed T Albahtiti  2017
Assistant Professor
Doctor of Philosophy Kansas State University

Feraidon F Ataie  2014
Associate Professor
Doctor of Philosophy Univ Of Kansas Main Campus

Emeritus Faculty

Tanya W Komas
Emeritus
Doctor of Philosophy Texas A&M Univ

Dirk H Vanderloop
Emeritus
Doctor Public Administration Univ Of Southern Cal