

Construction Management Technology

Careers & Technology

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DEGREE

A.S. — Construction Management Technology

CERTIFICATE OF ACHIEVEMENT

Construction Management Technology

See also:

Green Buildings: Environmental Design, Energy Management and Performance Based Construction (page 75)

Program Description

This CRC program offers training of management-level employees for the construction industry, as well as preparation for transfer to a four-year college or university construction program. Graduates may be employed by contractors, business and government agencies for work in project planning, estimating and project coordinating. A student planning to transfer to a four-year college or university should consult the lower division requirements of the anticipated college program.

Career Opportunities

Plan Checker	Estimator
Superintendent	Project Manager
Contractor	Retail/Wholesale
Office Manager	Developer
Foreman	Laborer

Some Career Opportunities may require more than two years of college study. Classes beyond the associate degree may be required to fulfill some Career Opportunities or for preparation for transfer to a university program.

Highlights

- Current curriculum emphasizes analytical problem solving and management skills
- Field trips to a variety of construction sites to study construction methods and procedures (Instructor option)
- Transfer potential to four-year programs in Construction Technology

NOTE TO TRANSFER STUDENTS:

If you are interested in transferring to a four-year college or university to pursue a bachelor's degree in this major, it is critical that you meet with a CRC counselor to select and plan the courses for your major. Schools vary widely in terms of the required preparation. The courses that CRC requires for an associate's degree in this major may be different from the requirements needed for the bachelor's degree.

For information about the student learning outcomes for this program, see <http://www.crc.losrios.edu/pslo>

DEGREE

A.S. — Construction Management Technology
CODE #1080

REQUIRED PROGRAM.....	Units
ACCT 101 Fundamentals of College Accounting (3) or	
ACCT 301 Financial Accounting (4).....	3-4
ADT 310 Architectural Computer-Aided Drawing I.....	3
CISC 302 Computer Familiarization.....	2
CMT 300 Intro to Construction Plans and Specifications (3) or	
BIT 102 Reading and Non-Structural Plan Review (3).....	3
CMT 112 Construction Estimating.....	3
CMT 120 Legal Aspects of Construction.....	3
CMT 134 Construction Scheduling and Critical Path Method.....	3
CMT 136 Construction Safety.....	3
CMT 310 Materials of Construction.....	3
CMT 313 Computer Estimating for Construction.....	3
PHYS 310 Conceptual Physics.....	3
TOTAL UNITS REQUIRED	32-33

Associate Degree

The Construction Management Technology Associate in Science (A.S.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See CRC graduation requirements.

CERTIFICATE OF ACHIEVEMENT

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This program prepares students for entry into the building and construction industry as a general tradesperson; and prepares students currently working within the industry for advancement.

REQUIRED PROGRAM.....	Units
ADT 310 Architectural Computer-Aided Drawing I.....	3
CISC 302 or JOUR 330 Computer Familiarization.....	2
CMT 112 Construction Estimating.....	3
CMT 120 Legal Aspects of Construction.....	3
CMT 134 Construction Scheduling & Critical Path Method.....	3
CMT 300 Intro to Construction Plans & Specifications or	
BIT 102 Reading And Non-Structural Plan Review.....	3
CMT 310 Materials of Construction.....	3
CMT 313 Computer Estimating for Construction.....	3
TOTAL UNITS REQUIRED	23

CONSTRUCTION MANAGEMENT TECHNOLOGY (CMT)

CMT 102

Introduction to Construction Practices 2 Units

Prerequisite: None

Hours: 36 hours LEC ; 18 hours LAB

This course is an introduction to construction practices and the construction trades with an emphasis on safe working procedures along with proper use of tools and equipment. Students who have received credit for CONST 102 will not receive credit for CMT 102. See "Cross-Referenced Courses" in the catalog.

CMT 112

Construction Estimating 3 Units

Prerequisite: None

Advisory: CMT 310

Hours: 54 hours LEC

This course covers construction quantity survey and estimating practices for residential, light commercial and green building projects.

CMT 120

Legal Aspects of Construction 3 Units

Prerequisite: None

Hours: 54 hours LEC

This course is a summary of the legal implications of licensing, contracts, specifications and their interpretations. Emphasis on the laws of liability, workers compensation, social security, Cal-OSHA, lien laws, and federal laws affecting construction and compliance problems.

CMT 134

Construction Scheduling and Critical Path Method 3 Units

Prerequisite: None

Advisory: CMT 112

Hours: 36 hours LEC ; 54 hours LAB

This course introduces computer and manual techniques used in planning, scheduling and controlling construction projects. Network analysis and applications using critical path method and current computer programs will be utilized.

CMT 136

Construction Safety 3 Units

Prerequisite: None

Advisory: CMT 300

Hours: 54 hours LEC

This course addresses the application of safety principles in construction with emphasis on the Occupation Safety and Health Act of 1970 and California OSHA.

CMT 294

Topics in Construction Management Technology .5-4 Units

Prerequisite: None

Hours: 18 hours LEC ; 54 hours LAB

Course work designed to cover special topics not included in current construction management offerings in a timely manner. Topics may be offered in workshops or seminar presentations on timely subjects or targeted for specific audiences.

CMT 295

Independent Studies in Construction Management Technology 1-3 Units

Prerequisite: None

Hours: 18 hours LEC ; 54 hours LAB

CMT 299

Experimental Offering in Construction Management Technology .5-4 Units

Prerequisite: None

Hours: 18 hours LEC ; 54 hours LAB

CMT 300

Introduction to Construction Plans and Specifications 3 Units

Prerequisite: None

Advisory: Concurrent enrollment in CMT 310

Course Transferable to CSU

Hours: 54 hours LEC

This is an introductory course in how to read building plans and specifications. Intended for both the homeowner and the builder, the course gives emphasis to building plan symbols, interpretation of shop and field drawings, and requirements for obtaining building permits.

CMT 310

Materials of Construction 3 Units

Prerequisite: None

Advisory: CMT 300

Course Transferable to CSU

Hours: 54 hours LEC

This is a general survey of materials and methods of building construction. An overall view of residential, commercial, and heavy construction practices will be studied.

CMT 313

Computer Estimating for Construction 3 Units

Prerequisite: None

Advisory: CMT 112

Course Transferable to CSU

Hours: 36 hours LEC ; 54 hours LAB

This course is designed to meet current demands for computerized estimating in the construction industry. This course will integrate computer technology with current construction estimating practices. This technology will provide the student with experience in determining construction quantities and costs quickly, economically and effectively.

CMT 495
Independent Studies in
Construction Management Technology **1-3 Units**
Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC ; 54 hours LAB

CMT 498
Work Experience in
Construction Management Technology **1-4 Units**
Prerequisite: None
General Education: AA/AS Area III(b)
Course Transferable to CSU
Hours: 300 hours LAB

This course provides students with opportunities to develop marketable skills in preparation for employment or advancement within their current job. Course content will include understanding the application of education to the workforce; completion of required forms, which document the student's progress and hours spent at the work site; and developing workplace skills and competencies. During the course of the semester, the student is required to fulfill an 18 hour orientation and 75 hours of related paid work experience, or 60 hours of unpaid work experience for one unit. An additional 75 or 60 hours of related work experience is required for each additional unit. The course may be taken again when there is new or expanded learning on the job for a maximum of 16 units.

CMT 499
Experimental Offering in
Construction Management Technology **.5-4 Units**
Prerequisite: None
Course Transferable to CSU
Hours: 18 hours LEC ; 54 hours LAB