

Construction Management (CONMT)

Construction Management provides students, who work in or plan to enter management of residential projects and commercial projects, with the knowledge and skills necessary for employment. Emphasis is placed on inspection, estimating, scheduling, legal, and business aspects of construction.

Degree Major/Certificate Requirements:

Dept/No.	Title	Units
FIRST SEMESTER		
CONMT 10	Introduction to Construction Practices	3
CONMT 11	Construction Estimating I/Residential Projects	3
CONMT 12	Uniform Building Codes I	3
CONMT 20	Blueprint Reading and Interpretation	3
SECOND SEMESTER		
CONMT 18	Construction Project Management I	3
CONMT 21	Construction Estimating II/Commercial Projects Construction	3
CONMT 22	Uniform Building Codes II	3
CONMT 31A	Computer Applications in Contracting Scheduling	3
THIRD SEMESTER		
CONMT 19	Construction Project Management II	3
CONMT 31B	Computer Applications in Contracting Business Management	3
CONMT 32	Materials and Methods of Construction	3
Select one course from the following:		
CONMT 30	State Contracting License Law (3)	
CONMT 40	Construction Contracts and Specifications (3)	3
Total Required Units:		36

For Associate Degree General Education requirements, refer to page 112.

Recommended:

A/ET 100
 Bus 1A, 20
 Chem 1A, 30A, 50
 Engl 1A, 53
 Math 220A, 220B, 220C, 220D
 Phys 4A, 10

BUILDING CODES AND INSPECTIONS

Certificate of Proficiency Requirements:

Dept/No.	Title	Units
FIRST SEMESTER		
CONMT 12	Uniform Building Codes I	3
CONMT 15	Electrical Code Inspections	3
SECOND SEMESTER		
CONMT 16	Plumbing Code Inspections	3
CONMT 22	Uniform Building Codes II	3
THIRD SEMESTER		
CONMT 14	Mechanical Code Inspections	3
CONMT 17	Seismic Code Inspections	2.5
Total Required Units:		17.5

CONMT 10 Introduction to Construction Practices

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Analysis of trades and their roles in construction practices: Analysis of how construction jobs are organized, labor movement changes, and equipment applications for residential and commercial construction. 0957.00

CONMT 11 Construction Estimating I/Residential Projects

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Estimating residential building projects: Materials and labor costs, time management, and bidding strategies. 0957.00

CONMT 12 Uniform Building Codes I

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Uniform Building Code: Origin, rationale, legal basis, and application. 0957.00

CONMT 14 Mechanical Code Inspections

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Heating and cooling concepts: Terms, interpretation and analysis of charts and tables, mechanical code inspections, calculations of loads and demand. 0957.20

Construction Management

CONMT 15

Electrical Code Inspections

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Requirements for electrical code inspections: Currents, wiring, grounding, panel locations, conductor sizing, mounting devices, and inspection methods. 0957.20

CONMT 16

Plumbing Code Inspections

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Requirements for plumbing code inspections: Fittings, gas consumption, below- and above-ground materials, clearances, gas pipe, water line, sewer, and inspection methods. 0957.20

CONMT 17

Seismic Code Inspections

2.5 units, 2.5 hours lecture (GR)

Acceptable for credit: CSU

Requirements for new and retrofit buildings: Shear walls, diaphragms, hold-downs, high-strength bolts, bracing connections, welds, and fire sprinkler loads. 0957.20

CONMT 18

Construction Project Management I

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Survey and interpretation of components of the construction process: Management process, contracts and deliver methods, estimating, scheduling, network construction, project control, and cost and resource controls. 0957.00

CONMT 19

Construction Project Management II

3 units, 3 hours lecture (GR)

Prerequisite: Conmt 18

Acceptable for credit: CSU

Presentation of model construction projects: Computer programs usage, organized labor, total quality management, review of construction cases, job site administration, OSHA, project bidding, and procurement and closeout. 0957.00

CONMT 20

Blueprint Reading and Interpretation

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Principles of blueprint reading and interpretation: Concepts, development, and interpretation of

working drawings for the builder, subcontractor, craftsman, superintendent, material supplier, owner, and specifications writer. 0957.00

CONMT 21

Construction Estimating II/Commercial Projects

3 units, 3 hours lecture (GR)

Prerequisite: Conmt 19

Acceptable for credit: CSU

Estimation of multi-unit buildings and small commercial projects: Interpretation of general conditions, plans, and specifications; labor costs; grade in overhead and profit; application of the critical-path method. 0957.00

CONMT 22

Uniform Building Codes II

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Continuation of CONMT 12: Requirements of the Codes in residential and commercial construction. 0957.00

CONMT 30

State Contracting License Law

3 units, 3 hours lecture (GR)

Offered Fall Semester.

Acceptable for credit: CSU

California state contractor laws: Rationale for laws, business and professional codes, the Contractor State License Board, advertising regulations, state bonding regulations, government codes, subletting, labor laws, California building standards, health and safety codes, CAL-OSHA, Workman's Compensation Insurance, and mechanic's liens. 0957.00

CONMT 31A

Computer Applications in Contracting--Scheduling

(Formerly CONMT 31)

3 units, 2 hours lecture, 3 hours laboratory (GR)

Recommended preparation: Bus 219 or CIS 205 or equivalent

Acceptable for credit: CSU

Selected software for construction scheduling and management: Gantt chart, critical path, resource allocation, milestones, and report writing. 0957.00

AA/AS Area 4c

Construction Management

CONMT 31B

Computer Applications in Contracting– Business Management

(Formerly CONMT 31)

3 units, 2 hours lecture, 3 hours laboratory (GR)

Recommended preparation: Bus 219 or CIS 205 or equivalent

Acceptable for credit: CSU

Construction project-management business operations:

Accounting, payroll, advanced construction project management, database management, suppliers management, and report writing. 0957.00

AA/AS Area 4c

CONMT 32

Materials and Methods of Construction

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Applications and maintenance of construction materials: Strength, durability, and degree of fire resistance. 0957.00

CONMT 40

Construction Contracts and Specifications

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Legal nature of contracts: Subcontracts and their specifications, Master Format, documentations, defaults, remedies, negotiations, and arbitration. 0957.00

CONMT 42

Managing Residential Remodeling Projects

3 units, 3 hours lecture (GR)

Acceptable for credit: CSU

Maintaining control of remodeling projects: Steps required from idea to finished project. 0957.00

CONMT 48GA-MZ

Selected Topics in Construction Management

.5-9 units, 0-9 hours lecture, 0-27 hours laboratory (GR)

Acceptable for credit: CSU

See section on Selected Topics. 0957.00

CONMT 210

Residential Building Codes for Carpenters

3 units, 3 hours lecture (GR)

Building codes applicable to the residential carpenter: Origin, rationale, legal basis, and application. 0957.00

CONMT 230

Building Inspections

3 units, 3 hours lecture (GR)

Building inspections: Focus on areas requiring inspection with emphasis on the International Conference of Building Officials (ICBO) guidelines and preparation for the inspections licensing examination. 0957.20

CONMT 248GA-MZ

Selected Topics in Construction Management

.5-9 units, 0-9 hours lecture, 0-27 hours laboratory (GR)

See section on Selected Topics. 0957.00

COPED 466H

Occupational Work Experience in Construction Management

1-4 units, hours to be arranged (GR) 0957.00