

CNST - Construction Technology Courses

CNST B1 Introduction to Construction

3 units

Description: Basic concepts of the construction industry. Overview of careers in construction, related safety and math, print reading, and construction techniques investigated.

Hours: 54 lecture

Transferable: CSU and private colleges.

CNST B2 Estimating and Scheduling

3 units

Description: Students will learn techniques in managing and organizing a construction project including plan reading, estimating, scheduling are covered. The extraction of the information necessary to calculate quantities and costs is investigated. The use of computer programs to manage a construction project and to calculate the cost and keep track of the scheduling is explored and practiced.

Hours: 54 lecture

Transferable: CSU and private colleges.

CNST B3 Construction Supervision and Project Management

3 units

Description: The combination of designing, estimating, contracting, financing and building must be understood and practiced. Leadership in this field means being responsible for many people, their work and their safety.

Hours: 54 lecture

Transferable: CSU and private colleges.

CNST B4 Contractor's License Law

2 units

Description: Preparation for the California State Contractor Examination in any classification. Includes state license law, civil code, civil procedure, labor law, contract law, and asbestos regulations.

Hours: 36 lecture

Transferable: CSU and private colleges.

CNST B5 Building Construction I

4 units

Description: Technical and practical experience to complete floor and wall framing of a house including underpinning, wall layout, and wall construction up to the ceiling joists. Estimating of materials, basic surveying, and concrete foundation formwork are also covered.

Hours: 54 lecture, 54 lab

Transferable: CSU and private colleges.

CNST B6 Building Construction II

4 units

Description: The study of roof design and cutting, the use of the framing square in roof layout, and prefabrication techniques in housing with field research assignments. Frame estimating for the building trades and the application of various roofing materials are also covered.

Hours: 54 lecture, 54 lab

Transferable: CSU and private colleges.

CNST B7 Residential Finish Construction

4 units

Description: This course covers interior and exterior building finishes, including layout fabrication and installation of stairs, door and window materials, construction, hardware and installation, interior and exterior millwork, molding and cabinetry; interior drywall and exterior siding, stucco plastering and EIFS systems. Building codes and finish estimating are included.

Hours: 54 lecture, 54 lab

Transferable: Not transferable. Degree applicable.

CNST B8 Plumbing I

4 units

Description: A course designed to provide students with entry-level instruction involving the theory and skills of residential plumbing systems. Knowledge of basic principles, functions and design, as well as the physical ability to install and test the rough-in plumbing in a single family dwelling.

Hours: 54 lecture, 54 lab

Transferable: Not transferable. Degree applicable.

CNST B9 Residential Electrical Wiring

4 units

Description: Residential electrical construction, wiring principles and practices, study and application of National Electrical Code (NEC) to comply with building requirements.

Hours: 54 lecture, 54 lab

Transferable: Not transferable. Degree applicable.

CNST B10 Plumbing II

4 units

Description: A course designed to provide students with entry-level instruction involving the theory and skills of residential plumbing systems. Topics include basic principles, function, design, installation of finish plumbing, repair and service of plumbing systems, installation of solar, spa, and sprinkler systems in a single family dwelling.

Hours: 54 lecture, 54 lab

Transferable: Not transferable. Degree applicable.

CNST B11 Residential Light Steel Frame Construction

4 units

Description: A comprehensive hands-on course that covers the fundamentals of utilizing light frame steel for residential framing in place of wood. Raised floor construction, wall framing, trussed roof fabrication and installation including applicable building codes, blueprint reading, estimating, and inspections are covered.

Hours: 54 lecture, 54 lab

Transferable: Not transferable. Degree applicable.

CNST B48WE Occupational Work Experience Education/Internship

1-8 units

Prerequisites: Declared major or occupational goal and evaluation of student's qualifications and objectives.

Recommended: BC placement into reading level 06.

Description: College credit for construction related learning experiences obtained on the job in accordance with a training plan developed cooperatively between the employer, college, and student. Occupational work experience credit may accrue at the rate of 1 to 8 units per semester for a total of sixteen units, and students must work 75 paid work experience or 60 volunteer hours of work

experience per unit. Repetition allowed per Title 5 55253.

Hours: Non-paid 60 hours for each 1 unit (60-480). Paid 75 hours for each 1 unit (75-600).

Transferable: Not transferable. Degree applicable.