

# CONSTRUCTION INSPECTION (CI)

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## CI 10 BUILDING PLANS AND CONSTRUCTION DETAILS 3 UNITS

Grade Only  
Lecture 3 hours  
Offered: FALL, SPRING  
Emphasizes reading and interpretation of blueprints used in building construction; reviewing site-layout plans; architectural, mechanical, and electrical drawings. [D]

## CI 20 INSPECTION OF MECHANICAL CONSTRUCTION 3 UNITS

Grade Only  
Lecture 3 hours  
Offered: SPRING, SUMMER  
Introduces all aspects of mechanical construction. Includes underground and above ground plumbing, water, gas, and air pipes and finishing of plumbing systems. Emphasizes principles of heat and ventilation systems. [D]

## CI 40 ELECTRICAL INSPECTION 3 UNITS

Grade Only  
Lecture 3 hours  
Offered: SPRING  
Provides the study of electrical inspection procedures as applied to residential and light commercial construction. Includes topics in electrical theory, electrical plan reading and symbols, and electrical system components. [D]

## CI 50 LEGAL FACTORS OF CONSTRUCTION INSPECTION 3 UNITS

Grade Only  
Lecture 3 hours  
Offered: FALL  
Introduces both the Federal and State laws as it applies to building code enforcement, construction safety standards, workman's compensation, and contract dispute resolution. [D]

## CI 60 BUILDING CODES I 3 UNITS

Grade Only  
Lecture 3 hours  
Offered: FALL  
Provides a detailed study of the role of building inspectors. Emphasizes the proper interpretation of the International Building Code (IBC). [D]

## CI 65 BUILDING CODES II 3 UNITS

Grade Only  
Lecture 3 hours  
Offered: SPRING  
Continuation of CI 60. Presents an enforcement perspective and continues the interpretation and application of the International Building Code (IBC). (Students may repeat this course no more than twice in a six-year period.) [D]

## CI 70 INSPECTION OF ARCHITECTURAL DETAILS AND STRUCTURAL INSPECTION 3 UNITS

Grade Only  
Lecture 3 hours  
Offered: SPRING  
Examines the properties of lumber, roofing, wall finishes, flooring and covering, and glass and glazing finishes. Emphasizes structural plan reading and presents engineering principles for materials of construction. [D]

## CI 90 CONSTRUCTION PROJECT MANAGEMENT 3 UNITS

Grade Only  
Recommended Preparation: Completion of one or more construction inspection college courses.  
Lecture 3 hours  
Offered: SPRING  
Designed for construction inspection managers, military construction quality control representatives, projects engineers/architects, and newcomers to the construction inspection community seeking employment careers in construction quality control management. [D]

## CI 100 ESSENTIALS OF FACILITIES MANAGEMENT 3 UNITS

Grade Only  
Lecture 3 hours, laboratory 1 hour  
Offered: FALL  
Studies the basic concepts that describes the field of facilities management and how it can be applied to any organization. Reviews a leader's role in tactical planning for how to schedule and accomplish daily facilities management tasks. Supports the long term sustainable operation of an organization's facilities. [D; CSU]

## CI 105 CALIFORNIA GREEN CODE AND SUSTAINABLE TECHNOLOGIES 3 UNITS

Grade Only  
Recommended Preparation: RDG 158 or equivalent or through the Southwestern College multiple measures placement processes.  
Lecture 3 hours  
Offered: FALL  
Emphasizes the proper interpretation of the CAL-Green Building Code and green building technologies. Provides inspectors, designers, and contractors with the latest code requirements and national standards to promote sustainable communities. Includes site planning and development, energy conservation, storm water pollution prevention, and basic sustainability concepts. [D] (Same as: SES 105)

**CI 110**

**FACILITIES PLANNING DESIGN**

**3 UNITS**

Grade Only

Lecture 3 hours, laboratory 1 hour

Offered: FALL

Studies facilities, layouts, determination of facilities requirements, site selection, use of analytical and computerized techniques and applications to areas such as office planning, warehousing, and health care. Addresses the subjects of retrofitting and preventative maintenance issues. [D; CSU]

**CI 299**

**INDEPENDENT STUDY**

**1-3 UNITS**

Pass/No Pass or Grade is Allowed

Limitation on Enrollment: Eligibility for independent study.

Lecture 3 hours

Offered: ALL

Individual study or research in some area of construction inspection of particular interest to the student and not included in regular courses of the college. [D; CSU]