

CSWB 210 Active Server Pages**(3)**

2½ hours lecture - 1½ hours laboratory

Prerequisite: A minimum grade of 'C' in CSWB 110 and CSIT 170**Transfer acceptability:** CSU

Introduction to the technologies and features in Active Server Pages. Topics include introduction to ASP, Webforms, controls, events, validation, custom controls, data binding, and various methods of code reuse, state management, configuration, caching, and application deployment.

CSWB 220 Advanced JavaScript**(3)**

2½ hours lecture - 1½ hours laboratory

Prerequisite: A minimum grade of 'C' in CSWB 120**Transfer acceptability:** CSU

Provides the knowledge and skills necessary to use JavaScript, XML, and server-side languages to develop dynamic Web-based applications. Topics of study include the use of asynchronous JavaScript, how to use the Document Object Model, the use of XML in Web page requests, how to use server-side languages (e.g. PHP, Java) to query and return information from a database and how to design and develop new AJAX applications.

CSWB 295 Directed Study in Web Technology**(1, 2, 3)**

3, 6, or 9 hours laboratory

Prerequisite: Approval of project or research by department chairperson/director**Transfer acceptability:** CSU

Designed for the student who has demonstrated a proficiency in computer science subjects and the initiative to work independently on a particular sustained project which does not fit into the context of regularly scheduled classes.

Construction Inspection (CI)

Contact Occupational & Noncredit Programs for further information.

(760) 744-1150, ext. 2284

Office: AA-135

Associate in Science Degrees -

AS Degree requirements are listed in Section 6 (green pages).

- Construction Inspection

Certificates of Achievement -

Certificate of Achievement requirements are listed in Section 6 (green pages).

- Construction Inspection

PROGRAM OF STUDY**Construction Inspection**

Provide comprehensive education in inspection procedures, California code standards, and interpretation of construction drawings to a diverse constituency for a career in the construction industry.

**A.S. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT**

Program Requirements		Units
CI 89	Plumbing Codes	3
CI 90	Mechanical Codes	3
CI 100	Building Codes I	3
CI 101	Building Codes II	3
CI 105	Electrical Codes I	3
CI 106	Electrical Codes II	3
CI 115	Nonstructural Plan Review	3
CI 125	Plan Reading Technologies	3
CI 130	CalGreen Codes	3
TOTAL UNITS		27

COURSE OFFERINGS

Courses numbered under 100 are not intended for transfer credit.

CI 89 Plumbing Codes**(3)**

3 hours lecture

An in-depth study of the fundamental concepts and interpretations of current state adopted plumbing codes. Topics covered include compliance issues, plumbing specifications, basic plumbing principles, and inspection methods and techniques. International Association of Plumbing and Mechanical Officials (IAPMO) revisions every three years.

CI 90 Mechanical Codes**(3)**

3 hours lecture

An in-depth study of the fundamental concepts and interpretations of current state adopted mechanical codes. Topics covered include compliance issues, mechanical specifications, basic mechanical principles, and inspection methods and techniques.

CI 100 Building Codes I**(3)**

3 hours lecture

Transfer acceptability: CSU

Introduction to building code requirements with an emphasis on minimum construction standards and code enforcement. Code requirements controlling the design, construction, quality of materials, use, occupancy and location of all buildings are evaluated. Revisions to the International Building Code are every three years.

CI 101 Building Codes II**(3)**

3 hours lecture

Transfer acceptability: CSU

A study of the requirements and standards for design, loads, wood, concrete, masonry and steel buildings. The study of exits, roofs, fireplaces, drywall, glass and stucco systems are examined. Interpretation is based on the International Code Council (ICC) building code which is revised every three years.

CI 105 Electrical Codes I**(3)**

3 hours lecture

Transfer acceptability: CSU

The first half of The National Electrical Code reviewed in an explanatory, easy-to-understand, yet in-depth manner. Basic electrical theory as it pertains to building construction is discussed with real-life situations used as examples of Code items and inspection techniques. Prepares students for electrical certification tests based on the building codes (both the ICC and the IAEI certifications), as well as advancing knowledge levels for existing Inspectors.

CI 106 Electrical Codes II**(3)**

3 hours lecture

Prerequisite: A minimum grade of 'C' in CI 105**Transfer acceptability:** CSU

The second half of The National Electrical Code reviewed in an explanatory, easy-to-understand, yet in-depth manner. Basic electrical theory as it pertains to building construction is discussed with real-life situations used as examples of Code items and inspection techniques. Prepares students for electrical certification tests based on the building codes (both the ICC and the IAEI certifications), as well as advancing knowledge levels for existing Inspectors.

CI 115 Nonstructural Plan Review**(3)**

3 hours lecture

Transfer acceptability: CSU

A study of basic methods used by plans examiners to check the nonstructural details of construction drawings in compliance with the international building code. Topics cover analyzing nonstructural details and determining compliance with the minimum requirements for concrete, masonry, wood, and steel structures.

CI 125 Plan Reading Technologies (3)
 3 hours lecture
Transfer acceptability: CSU
 A survey of technologies in the construction inspection industry relating to plan reading. Content includes an introduction to construction plan reading; a review of the standard details and specifications used in the San Diego region; discussions on the various roles of the construction and building inspectors; employment opportunities and certifications; an overview of special inspection requirements; construction scheduling; and when and how often inspections should be performed. Content also includes an introduction to California Title 24 including the building, plumbing, electrical, mechanical, California Green Codes, and an introduction to the Americans with Disabilities Act (ADA).

CI 130 CalGreen Codes (3)
 3 hours lecture
Transfer acceptability: CSU
 Emphasizes the proper interpretation of the California Green Building Code and green building technologies. The scope of the course will provide inspectors, designers and contractors with the latest code requirements and national standards to promote sustainable communities. Topics include site planning and development, energy conservation, storm water pollution prevention and basic sustainability concepts.

CI 197 Construction Inspection Topics (.5-3)
 Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Transfer acceptability: CSU
 Topics in Construction Inspection. May be repeated with new subject matter. See Class Schedule for specific topic offered. Course title will designate subject covered.

Cooperative Education (CE)

Contact the Cooperation Education Department for further information.
 (760) 744-1150, ext. 2354
 Office: PBA
 In accordance with Board Policy 4103:

COURSE OFFERINGS

Students may earn a maximum of 16 units in Cooperative Education (CE) in any combination of CE100, CE110, or CE150. CE100 and 150 may not exceed 8 units per semester, and CE 110 may not exceed 6 units per semester

STUDENT QUALIFICATIONS: In order to participate in cooperative work experience education students shall meet the following requirements:

1. Be a legally indentured or a certified apprentice, an intern, volunteer, or a paid employee.
AND
2. Have approval of the Cooperative Work Experience Education academic personnel.
AND
3. Pursue a planned program of cooperative work experience education which, in the opinion of the Coordinator, includes new or expanded responsibilities or learning opportunities beyond those experienced during the previous employment.
AND
4. Attend orientation(s) at the beginning of the semester.

The number of units received each semester for on the job experience will be based on the total number of hours worked each semester or summer session as follows:

- 1 unit - 75 paid hours per semester or session; 60 volunteer hours
- 2 units - 150 paid hours per semester or session; 120 volunteer hours
- 3 units - 225 paid hours per semester or session; 180 volunteer hours
- 4 units - 300 paid hours per semester or session; 240 volunteer hours

CE 100 Cooperative Education (1,2,3,4)
 1, 2, 3, or 4 hours lecture
Transfer acceptability: CSU
 Supervised on the job training for all occupational students.
Note: The Occupational Cooperative Work Experience Program is designed to coordinate on the job training and classroom instruction. Supervised employment is related to the occupational goal of the individual student. Employment may be on or off campus; the student may or may not receive pay, depending on where the work is performed.

CE 110 Cooperative Work Experience-General (2,3)
 2 or 3 hours lecture
Transfer acceptability: CSU
 Supervised on the job training for all students.
Note: The General Cooperative Work Experience Education Program is designed to give job information and experience to those students employed in jobs not related to coursework in school. Employment may be on or off campus; the student may or may not receive pay depending on where the work is performed.

CE 150 Cooperative Education Internship (2,3)
 10 or 15 hours laboratory
Transfer acceptability: CSU
 Students learn major-specific knowledge and skills at an internship site that will enhance employment. Students design and complete an internship project in consultation with their internship advisor and job site supervisor.

Counseling (COUN)

See also Disability Resource

Contact the Counseling Department for further information.
 (760) 744-1150, ext. 2179
 Office: SSC-18A

COURSE OFFERINGS

Courses numbered under 50 are non-degree courses.
 Courses numbered under 100 are not intended for transfer credit.

COUN 45 Basic Study Skills (1)
 1 hour lecture
Note: Open entry/Open exit; Pass/No Pass grading only
 Non-degree Applicable
 Study improvement techniques, time management techniques, memory and note taking skills, and test taking methods.

COUN 48 Overcoming Test Anxiety (1)
 1 hour lecture
Note: Open entry/Open exit; Pass/No Pass grading only
 Non-degree Applicable
 Provides instruction in understanding the sources of test anxiety and the techniques for overcoming it.

COUN 49 Introduction to Financial and Academic Resources (.5)
 ½ hour lecture
Note: Pass/No Pass grading only
 Non-degree Applicable
 Survey of financial and supportive resources available to students including part-time employment. The course content includes an overview of financial aid programs and eligibility requirements, campus support programs, community support services, money management, and educational planning. This course may be used to fulfill the financial aid orientation requirement.

COUN 100 Introduction to Basic Counseling Skills (3)
 3 hours lecture
Transfer acceptability: CSU
 An introduction to the principles and practices of counseling and interviewing. A systematic development of the basic skills essential for effective counseling. Combines informal lecture, videotapes, and role playing interactions. Practicum experience will be required.