

ARCHITECTURE

ARCH V10 - INTRODUCTION TO ARCHITECTURAL DESIGN - 2 Units

Hours: 2 lecture weekly

This course includes the study of design that addresses concepts of order, site analysis, scale, structure, rhythm, detail and culture.

Field trips may be required. May be taken for a maximum of 2 times. Formerly Arch 10. Transfer credit: CSU.

ARCH V11 - BLUEPRINT READING: ARCHITECTURAL/ CONSTRUCTION - 3 Units

Hours: 3 lecture weekly

This course provides experience in construction blueprint reading and plan review. Experiences will include the study of lines, symbols, notations and dimensions used on architectural drawings. Code interpretation and design compliance will be stressed.

Field trips may be required. Formerly Arch 11. Same as CT V20 & DRFT V02B. Transfer credit: CSU; credit limitations - see counselor.

ARCH V12 - ADVANCED BLUEPRINT READING: COMMERCIAL/INDUSTRIAL - 3 Units

Recommended preparation: ARCH V11 or CT V20 or DRFT V02B or equivalent

Hours: 3 lecture weekly

This is an advanced blueprint reading course for inspectors, contractors and designers interested in commercial and industrial construction. This course will provide training in blueprint reading comprehension, system assemblies, and material specifications. Subjects to be covered will include soils, foundations, site work, concrete, masonry, structural steel, welding, mechanical and electrical systems.

Same as CT V12. Transfer credit: CSU; credit limitations - see counselor.

ARCH V21 - ARCHITECTURAL GRAPHICS I - 3 Units

Recommended preparation: DRFT V03 or 1 year of drafting experience

Hours: 6 lecture-laboratory weekly

This course is the study and practice of basic techniques used for graphic communication. Techniques will include orthographic and isometric projection, mechanical perspective, shades and shadows.

Fees will be required. Field trips may be required. May be taken for a maximum of 2 times. Formerly Arch 21. Transfer credit: CSU.

ARCH V22 - ARCHITECTURAL GRAPHICS II - 3 Units

Prerequisite: ARCH V21

Hours: 6 lecture-laboratory weekly

This course includes further development of freehand and mechanical graphic communication skills for representation of conceptual ideas, analysis and design concepts.

Fees will be required. Field trips may be required. May be taken for a maximum of 2 times. Formerly Arch 22. Transfer credit: CSU.

ARCH V23 - INTRODUCTION TO AUTOCAD - 2 Units

Prerequisite: DRFT V03 or 1 year of drafting experience

Hours: 1 lecture, 3 laboratory weekly

This course is an introduction to the use of AutoCAD including commands, editing, printing and plotting with emphasis on two-dimensional, and introduction to three-dimensional drawings. Overview of related industry trends, practices, and employer expectations will be addressed.

Fees will be required. Field trips may be required. ARCH V23/DRFT V05A may be taken in any combination for a maximum of 2 times. Formerly Arch 23. Same as DRFT V05A. Transfer credit: CSU; UC; credit limitations - see counselor.

ARCH V24 - ADVANCED OPERATIONS OF AUTOCAD - 2 Units

Prerequisite: ARCH V23 or DRFT V05A

Hours: 1 lecture, 3 laboratory weekly

This course emphasizes AutoCAD instruction including three-dimensional drafting, customization of AutoCAD, introduction to architectural computer assisted drafting (CAD).

Fees will be required. Field trips may be required. May be taken for a maximum of 2 times. Formerly Arch 24. Transfer credit: CSU.

ARCH V31 - ARCHITECTURAL PRACTICE I - 3 Units

Recommended preparation: DRFT V03 or 1 year of drafting experience

Hours: 6 lecture-laboratory weekly

This course is designed to train students in preparing architectural construction drawings. Drawings include site plan, foundation plan, floor plan, elevation and detail drawings. Emphasis is on wood frame construction. Design principles are discussed.

Fees will be required. Field trips may be required. May be taken for a maximum of 2 times. Formerly Arch 31. Transfer credit: CSU.

ARCH V32 - ARCHITECTURAL PRACTICE II - 3 Units

Recommended preparation: DRFT V03 or 1 year of drafting experience

Hours: 6 lecture-laboratory weekly

This course is designed to train students in preparing construction drawings for wood, masonry, concrete and steel construction. Design principles are discussed.

Fees will be required. Field trips may be required. May be taken for a maximum of 2 times. Formerly Arch 32. Transfer credit: CSU.

ARCH V33 - COMPUTER APPLICATIONS IN ARCHITECTURE - 3 Units

Recommended preparation: ARCH V31; and ARCH V23 or DRFT V05A

Hours: 2 lecture, 3 laboratory weekly

This course is an integration of previously acquired knowledge through the assignment of architectural projects. Students may select individual projects focusing on graphic techniques, design or construction drawings. All work is performed using computer assisted drafting.

Fees will be required. Field trips may be required. May be taken for a maximum of 3 times. Formerly Arch 33. Transfer credit: CSU.

ARCH V40 - ARCHITECTURAL DESIGN I - 3 Units

Recommended preparation: DRFT V03 or 1 year of drafting experience

Hours: 6 lecture-laboratory weekly

This course includes theories, principles, methods and means pertaining to the creation of architectural form, space and organizations, and the incorporation of function and light as issues that shape the built environment and support the communication of intended concepts and meanings.

Fees will be required. Field trips may be required. May be taken for a maximum of 2 times. Formerly Arch 40. Transfer credit: CSU; UC.

ARCH V41 - ARCHITECTURAL DESIGN II - 3 Units

Prerequisite: ARCH V40

Hours: 6 lecture-laboratory weekly

This course includes theories, principles, methods and means pertaining to the incorporation of context, structure and climate as issues that shape the built environment and support the communication of intended concepts and meanings.

Fees will be required. Field trips may be required. May be taken for a maximum of 2 times. Formerly Arch 41. Transfer credit: CSU.

ARCH V58 - INTERNATIONAL RESIDENTIAL CODE - 3 Units

Hours: 3 lecture weekly

This course is an introduction to the International Residential Code (IRC). Students will learn interpretation and use of the residential building code as it applies to current construction. Design criteria and inspection processes will be emphasized. Course content will include information related to residential code certification for inspectors and designers. Topics of instruction will follow the content of the most recent IRC as published by the International Code Council (ICC).

Same as CT V58. Transfer credit: CSU; credit limitations - see counselor.

ARCH V59 - UNIFORM BUILDING CODE - 3 Units

Hours: 3 lecture weekly

This is a fundamental course acquainting the student with all aspects of the Uniform Building Code and other applicable construction safety codes, including how codes are written, enforced, their purpose, legal status and their application in wood frame construction.

Field trips may be required. ARCH V59/CT V59 may be taken in any combination for a maximum of 3 times. Formerly Arch 59. Same as CT V59. Transfer credit: CSU; credit limitations - see counselor.

ARCH V60 - SIMPLIFIED ENGINEERING FOR BUILDING CONSTRUCTION - 3 Units

Hours: 3 lecture weekly

This is an introductory course designed to give the student an overview of basic construction engineering principles. This course will study subjects such as live and dead loads, uniform and concentrated loads, footing and foundation design, post and beam sizing, shear transfer, load path transfer, building material selection, connection methods and other aspects of structural design.

Formerly Arch 60. Same as CT V60. Transfer credit: CSU; credit limitations - see counselor.

ARCH V64 - BUILDING CONSTRUCTION: MATERIALS AND METHODS - 3 Units

Hours: 3 lecture weekly

This course is an introduction to residential and light commercial building construction, including materials, foundations, framing, roof and stair cutting, drywall, finish work and building codes. This course is intended to serve as an overview of the construction process.

Field trips may be required. Formerly Arch 64. Same as CT V64. Transfer credit: CSU; credit limitations - see counselor.

ARCH V67 - BUILDING ACCESSIBILITY REGULATIONS - 2 Units

Hours: 2 lecture weekly

This course is a study of California and federal regulations, such as the Americans with Disabilities Act (ADA) and California Title 24 Regulations, which cover building accessibility for disabled persons. Both public and private buildings will be studied as well as parking, exterior routes of travel, entrances, exits and other accommodations. This course is intended for building designers as well as contractors and inspectors. This course will also help prepare students for industry certification.

Formerly Arch 67. Same as CT V67.

ARCH V75 - INTRODUCTION TO ELECTRICAL, PLUMBING AND MECHANICAL SYSTEMS - 3 Units

Hours: 3 lecture weekly

This course is an introduction to residential and light commercial electrical, plumbing, heating, air conditioning and ventilation systems. Subjects to be studied will include vocabulary, equipment, materials, construction methods, system design, and basic inspection requirements.

Formerly Arch 75. Same as CT V75. Transfer credit: CSU; credit limitations - see counselor.

ARCH V90 - DIRECTED STUDIES IN ARCHITECTURE - .5-6 Units

Prerequisite: varies with topic

Hours: lecture and/or laboratory as required by unit formula

This course offers specialized study opportunities for students with intermediate skills who wish to pursue projects not included in the regular curriculum. Students are accepted only by written project proposal approved by the discipline prior to enrollment.

Field trips may be required. May be taken for a maximum of 4 times not to exceed 6 units.

ARCH V95 - ARCHITECTURE INTERNSHIP I - 1-4 Units

Corequisite: enrolled in a minimum of 7 units to include internship

Recommended preparation: completion of or concurrent enrollment in one course in the discipline

Hours: 60 per unit

This architecture internship course offers students who are volunteers (unpaid) an opportunity to obtain work experience related to their field of study. Students are accepted as a result of consultation with a designated faculty member in the discipline and the acceptance of an approved work proposal.

Field trips will be required. May be taken for a maximum of 4 times not to exceed 16 units total in combination with any other work experience/internship courses. Offered on a credit/no credit basis only. Transfer credit: CSU; credit limitations - see counselor.

ARCH V96 - ARCHITECTURE INTERNSHIP II - 1-4 Units

Corequisite: enrolled in a minimum of 7 units to include internship

Recommended preparation: completion of or concurrent enrollment in one course in the discipline

Hours: 75 per unit

This architecture internship course offers students who are employed in the field an opportunity to expand their work experience related to their field of study. Students are accepted as a result of consultation with a designated faculty member in the discipline and the acceptance of an approved work proposal.

Field trips will be required. May be taken for a maximum of 4 times not to exceed 16 units total in combination with any other work experience/internship courses. Offered on credit/no credit basis only. Transfer credit: CSU; credit limitations - see counselor.