

# ARCHITECTURE

The Architecture program provides a balance of architectural, technical design, and lower division courses to provide students with a diverse foundation of knowledge in the fields of architecture, landscape architecture, and urban planning which prepares students for careers in a wide range of design fields. The program is designed to prepare students to work as architectural technicians or designers in an architectural, engineering or development office. The curriculum visualizes architecture as a cultural, creative, technical practice, and discipline with direct social impact. The program provides preparation for baccalaureate degrees and/or the training for professional careers while providing a technical associate degree or certificate of achievement.

## ARCH V10 Introduction to Architectural Design 2 Units

*Formerly:* ARCH 10

*In-Class Hours:* 35 lecture

This course is the study of architectural design, including concepts of size, shape, material, context, number, variety and relationship (pattern, hierarchy, contrast, and balance). Students will design and execute two-dimensional presentations composed of drawings, images, and/or text that support intended communication and provide solutions to defined design problems.

**Grade Modes:** Letter Graded

**Field Trips:** May be required

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU, UC

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

## ARCH V11 Blueprint Reading: Architectural/Construction 3 Units

*Formerly:* CT 20

*Same-As:* CT V20, DRFT V02B

*In-Class Hours:* 52.5 lecture

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.

**Grade Modes:** Letter Graded, Credit by exam, license etc.

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

## ARCH V12 Advanced Blueprint Reading: Commercial/Industrial 3 Units

*Same-As:* CT V12

*In-Class Hours:* 52.5 lecture

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, and mechanical and electrical systems.

*Advisories/Rec Prep:* ARCH V11 or CT V20 or DRFT V02B or equivalent

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Credit Limitations:** see counselor.

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

## ARCH V15 Design and Model Construction 2 Units

*Formerly:* ARCH 15

*In-Class Hours:* 17.5 lecture, 52.5 laboratory

This course provides beginning students with a hands-on design and construction experience in coordination with their first design and visual communication studios. Focus will be on the safe operation of wood and metal tools and equipment, and the design and construction of a small scale project.

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Field Trips:** May be required

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

## ARCH V21 Architectural Graphics I 3 Units

*Formerly:* ARCH 21

*In-Class Hours:* 35 lecture, 52.5 laboratory

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.

*Advisories/Rec Prep:* DRFT V03 or 1 year of drafting experience

**Grade Modes:** Letter Graded

**Field Trips:** May be required

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU, UC

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

**ARCH V22 Architectural Graphics II 3 Units***In-Class Hours:* 35.0 lecture, 52.5 laboratory*Prerequisites:* ARCH V21

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

**Grade Modes:** Letter Graded**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU, UC**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V23 Introduction to AutoCAD 2 Units***Same-As:* DRFT V05A*In-Class Hours:* 17.5 lecture, 52.5 laboratory

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. Industry trends, practices, and employee/employer expectations will be addressed.

*Advisories/Rec Prep:* DRFT V03 or 1 year of drafting experience**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU, UC**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V24 Advanced Operations of AutoCAD 2 Units***Same-As:* DRFT V05B*In-Class Hours:* 17.5 lecture, 52.5 laboratory*Prerequisites:* ARCH V23 or DRFT V05A

This course emphasizes AutoCAD instruction including three-dimensional drafting, customization of AutoCAD, advanced computer assisted drafting (CAD) methods, and an introduction to computer assisted machining (CAM). The course will address industry trends, practices, and employee/employer expectations.

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU, UC**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V25 Digital Tools for Architecture 3 Units***In-Class Hours:* 35.0 lecture, 52.5 laboratory

The course is designed to introduce digital tool components to architecture students. Course assignments develop the student's understanding and skills associated with 3D modeling (Sketchup, Rhino), image editing (Photoshop) and page layout (In-Design), or similar program applications.

*Advisories/Rec Prep:* ARCH V23/DRFT V05A**Grade Modes:** Letter Graded**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU, UC**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V31 Revit Practice I 3 Units***In-Class Hours:* 35.0 lecture, 52.5 laboratory

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 concepts, methods, processes, detailing and documentation of wood frame construction.

*Advisories/Rec Prep:* DRFT V03 or 1 year of drafting experience**Grade Modes:** Letter Graded**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V32 Revit Practice II 3 Units***In-Class Hours:* 35.0 lecture, 52.5 laboratory

This course is designed to train students in preparing construction drawings. Emphasis will be placed on the techniques and methods for major building material use, such as wood, masonry, concrete, and steel. Design principles will be discussed.

*Advisories/Rec Prep:* DRFT V03 or 1 year of drafting experience**Grade Modes:** Letter Graded**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None

**ARCH V33 Computer Applications in Architecture 3 Units***In-Class Hours:* 35.0 lecture, 52.5 laboratory

This course provides an opportunity for students to apply computer applications in architecture through the assignment of architectural projects. Students may select individual projects focusing on graphic techniques, design or construction drawings. All work will be performed using computer assisted drafting (CAD).

*Advisories/Rec Prep:* ARCH V31, and ARCH V23/DRFT V05A

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU, UC**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V40 Architectural Design I 3 Units***In-Class Hours:* 26.25 lecture, 78.75 laboratory

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.

*Advisories/Rec Prep:* DRFT V03 or 1 year of drafting experience**Grade Modes:** Letter Graded**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU, UC**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V41 Architectural Design II 3 Units***Formerly:* ARCH 41*In-Class Hours:* 26.25 lecture, 78.75 laboratory

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.

*Advisories/Rec Prep:* ARCH V40**Grade Modes:** Letter Graded**Field Trips:** May be required**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU, UC**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V58 International Residential Code 3 Units***Same-As:* CT V58*In-Class Hours:* 52.5 lecture

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).

**Catalog Notes:** If you need to repeat this course for licensing or certification requirements, go to the Admissions and Records office or its website for the petition form to repeat this course.

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V59 International Building Code 3 Units***Same-As:* CT V59*In-Class Hours:* 52.5 lecture

This is an introduction to the International Building Code (IBC), as published by the International Code Council (ICC). The IBC is the building code used for commercial and industrial structures. Subjects to be covered will include structural design requirements, inspection procedures, code comprehension and ICC inspector certification.

**Catalog Notes:** If you need to repeat this course for licensing or certification requirements, go to the Admissions and Records office or website for the petition form to repeat this course.

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None**ARCH V60 Simplified Engineering for Building Construction 3 Units***Formerly:* ARCH 60*Same-As:* CT V60*In-Class Hours:* 52.5 lecture

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, safety codes, and other aspects of structural design.

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Degree Applicability:** Applies to Associate Degree**AA/AS GE:** None**Transfer Credit:** CSU**UC Credit Limitations:** None**CSU GE-Breadth:** None**IGETC:** None

**ARCH V64 Building Construction: Materials and Methods 3 Units***Formerly:* ARCH 64*Same-As:* CT V64*In-Class Hours:* 52.5 lecture

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. The course is intended to serve as an overview of the construction process.

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

**ARCH V67 Building Accessibility Regulations 2 Units***Same-As:* CT V67*In-Class Hours:* 35 lecture

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.

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** None

**ARCH V75 Introduction to Electrical, Plumbing, and Mechanical Systems 3 Units***Same-As:* CT V75*In-Class Hours:* 52.5 lecture

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.

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

**ARCH V90 Directed Studies in Architecture 1-6 Units***In-Class Hours:* 52.5-315.0 laboratory

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

**Grade Modes:** Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

**Field Trips:** May be required

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

**ARCH V95 Architecture Internship I 1-4 Units**

*Prerequisites:* Completion or concurrent enrollment in one course in the discipline

*Corequisites:* Enrolled in a minimum of 7 units to include internship

This 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. This is an unpaid occupational work experience course, where 1 unit of credit is earned for each 60 hours of unpaid internship. A maximum of 4 units can be completed in a semester, and no more than 16 units can be earned in total.

*Enrollment Limitations:* Department Chair approval.

**Grade Modes:** Pass/No Pass Grading

**Repeatable for Credit:** Course may be repeated up to a maximum of 16 units of credit.

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

**ARCH V96 Architecture Internship II 1-4 Units***In-Class Hours:* 75-300 paid cooperative

*Prerequisites:* Completion of or concurrent enrollment in one course in the discipline

*Corequisites:* Enrolled in a minimum of 7 units to include internship

This 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. This is a paid occupational work experience course, where 1 unit of credit is earned for each 75 hours of paid internship. A maximum of 4 units can be completed in a semester, and no more than 16 units can be earned in total.

*Enrollment Limitations:* Department Chair approval.

**Grade Modes:** Pass/No Pass Grading

**Repeatable for Credit:** Course may be repeated up to a maximum of 16 units of credit.

**Degree Applicability:** Applies to Associate Degree

**AA/AS GE:** None

**Transfer Credit:** CSU

**UC Credit Limitations:** None

**CSU GE-Breadth:** None

**IGETC:** None

- Architectural Design, Associate in Science (<http://catalog.vcccd.edu/ventura/programs-courses/architecture/architectural-design-as/>)
- Architectural Science, Associate in Science (<http://catalog.vcccd.edu/ventura/programs-courses/architecture/architectural-science-as/>)
- Architectural Design, Certificate of Achievement (<http://catalog.vcccd.edu/ventura/programs-courses/architecture/architectural-design-coa/>)
- Architectural Science, Certificate of Achievement (<http://catalog.vcccd.edu/ventura/programs-courses/architecture/architectural-science-coa/>)
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