

Architecture

ARCH 111 Architectural Graphics & Design I

3.0 units

Acceptable for credit: Transfer to UC, CSU

Introduces the graphic tools, techniques, and conventions used to communicate architectural ideas. Tools, techniques, and conventions include freehand drawing, architectural drawing systems, paraline drawing, multi view drawing, perspective drawing, rendering of tonal values, model making, and architectural presentations. Covers the fundamental principles and application of two- and three-dimensional architectural design. (Spring) (Letter Grade or Pass/No Pass)

ARCH 112 Architectural Graphics & Design II

3.0 units

Acceptable for credit: Transfer to UC, CSU

Prerequisite: ARCH 111 - Architectural Graphics & Design I

Continuation of ARCH 111 plus the issues, concepts, processes and skills pertaining to research methods, building form analysis, color theory, and the design and visual communication of architectural space. Projects of increasing complexity are assigned and developed using various presentation techniques and media. (Fall) (Letter Grade or Pass/No Pass)

ARCH 121 Architectural Drawing 1

4.0 units

Acceptable for credit: Transfer CSU

The first course in a two-semester sequence that prepares the student to enter the construction field as a drafter. Emphasizes the planning and the development of a set of residential plans that may be submitted for plan check approval. The first semester presents an overview of planning and building, particularly plans and schedules. (Spring) (Letter Grade or Pass/No Pass)

ARCH 122 Architectural Drawing 2

4.0 units

Acceptable for credit: Transfer CSU

The second course in a two-semester sequence that prepares the student to enter the construction field as a drafter. Emphasizes the planning and development of a set of residential plans that may be submitted for plan check approval. The second semester covers structural details, energy, and mechanical requirements, and a study of fire resistive materials and finishes. (Fall) (Letter Grade or Pass/No Pass)

ARCH 131 Building Construction Materials and Methods

3.0 units

Acceptable for credit: Transfer CSU

Advisories: Concurrent enrollment in; ARCH 121 - Architectural Drawing 1

A general survey of the components, materials, types, and methods of building construction; terminology as applied to codes, foundations, concrete, light frame wood, heavy timber, soils, and the structural elements. This course is strongly recommended for those who are entering the construction industry. (Letter Grade or Pass/No Pass)

ARCH 151 Architectural Design Studio I

5.0 units

Acceptable for credit: Transfer CSU

Advisories: ARCH 112 - Architectural Graphics & Design II

Prerequisite: ARCH 111 - Architectural Graphics & Design I

A continued and refined study begun in ARCH 111 & 112 of design principles and processes. Environmental and visual phenomena such as architectural form, function, context, and daylighting are studied through intermediate level design problems. (Letter Grade or Pass/No Pass)

ARCH 152 Architectural Design Studio II

5.0 units

Acceptable for credit: Transfer CSU

Prerequisite: ARCH 151 - Architectural Design Studio I

A continuation of the study of design principles and processes. Projects of an advanced level are assigned in which students have the opportunity to design complex, multi-use, multi-story buildings. Case studies are performed of specific building types before the design process begins. (Letter Grade or Pass/No Pass)

ARCH 160 Digital Tools In Architecture

3.0 units

Acceptable for credit: Transfer CSU

Advisories: ARCH 111 - Architectural Graphics & Design I

Introduces computer design and presentation skills for architecture students. Topics include image editing, page layout and 3D modeling. This course is not open to students who are enrolled in or have received credit for ET 160. (Pass/No Pass)

ARCH 321 International Building Code

3.0 units

Acceptable for credit: D - Credit - Degree Applicable

Introduces the student to the purpose and use of the International Building Code (IBC), and prepares the student to make design and job site judgments based on the Code. (Fall) (Letter Grade or Pass/No Pass)

ARCH 370 SkillsUSA

3.0 units

Acceptable for credit: D - Credit - Degree Applicable

Repeatable: 3.00

SkillsUSA is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. This SkillsUSA course prepares students for employment and inter-collegiate competition in Career Technical Education. Students will learn to plan projects, work in teams, solicit community support and develop a range of skills valued by employers. Students registered for this class may not register for AB 370, AT 370, EL 370, ET 370, MT 370 or WLDT 370 during the same semester. Participation in the SkillsUSA competition is required. This course may be repeated up to three times for credit with different competitions. (Fall, Spring) (Letter Grade or Pass/No Pass)