

**ARAB 201B Arabic IIIB (3)**

3 hours lecture

**Prerequisite:** A minimum grade of 'C' in ARAB 201A

**Note:** Covers the second half of third semester Arabic; not open to students with credit for ARAB 201

**Transfer acceptability:** CSU; UC

Arabic 201A and 201B are equivalent to the third semester of an intermediate level course in Arabic. ARAB 201B is a continuation of ARAB 201A. This intermediate level course is a study of the Arabic language and Arabic-speaking cultures, focusing on intermediate level structures and readings of culturally relevant authentic materials. Emphasis is on developing oral, listening, reading and writing skills in order to acquire proficiency in Arabic. Class is largely conducted in Arabic.

**Architecture (ARCH)**

Contact the Design and Consumer Education Department for further information.

(760) 744-1150, ext. 2349

Office: P-8A

**Associate in Science Degrees -**

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

- Architecture
- Architectural Drafting

**Certificates of Achievement -**

- Architecture
- Architectural Drafting
- Eco-Building Professional

**PROGRAMS OF STUDY**

**Architecture**

This coursework prepares students for transfer into a university architectural program. Emphasis is on current architectural and construction practices, fundamental design skills, sustainable building guidelines, and transfer preparation. Students should review specific course requirements and transfer agreements with their architectural instructor and transfer counselor. General education course requirements such as mathematics, physics, etc. will vary depending upon the specific university program.

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

Program Requirements	Units
ARCH 105 Basic Architectural Drafting	3
ARCH 120 Architectural History	3
or	
ARCH 121 Multicultural Architectural History	3
ARCH 135 Architectural Materials and Methods of Construction	4
ARCH 144 Architectural Drawing and Color	4
ARCH 145 Architectural Delineation and Pictorial Drawing	4
ARCH 155 Architectural Theory	3
ARCH 215 Architectural Design Fundamentals I	5
ARCH 216 Architectural Design Fundamentals II	5
<b>TOTAL UNITS</b>	<b>31</b>

Students should review specific course requirements and transfer agreements with their architectural instructor and transfer counselor. General education course requirements such as mathematics, physics, etc. will vary depending upon the specific university program.

**Architectural Drafting**

Prepares students for employment as a design/production drafter in the field of architecture.

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

Program Requirements	Units
ARCH 105 Basic Architectural Drafting	3
ARCH 135 Architectural Materials and Methods of Construction	4
ARCH 144 Architectural Drawing and Color	4
ARCH 145 Architectural Delineation and Pictorial Drawing	4
ARCH 150/ID 150 Computer Aided Drafting for Designers (CADD)	3
ARCH 160 Environmental Architecture and Design	4
ARCH 200 Advanced Computer Aided Architectural Drafting	4
ARCH 202 Introduction to Revit Architecture	3
<b>TOTAL UNITS</b>	<b>29</b>

**Eco-Building Professional**

This program is designed to provide the knowledge and skills needed to promote energy and resource efficient building practices through current code changes and new tax cost payback. Graduates will be prepared for numerous jobs within the deconstruction and remodel industries and would have skills needed by builders, contractors, architects or designers seeking assessment of current construction methods for framing, water use and LEED environmental compliance.

**CERTIFICATE OF ACHIEVEMENT**

Program Requirements	Units
ARCH 135 Architectural Materials and Methods of Construction	4
ARCH 160 Environmental Architecture and Design	4
ARCH 216 Architectural Design Fundamentals II	5
ID 105 Materials and Resources	3
ID 130 Light and Color	3
<b>TOTAL UNITS</b>	<b>19</b>

Recommended Electives: GEOG 120, MATH 60

**COURSE OFFERINGS**

**ARCH 105 Basic Architectural Drafting (3)**

1 1/2 hours lecture - 4 1/2 hours laboratory

**Transfer acceptability:** CSU

An introduction to architectural drafting including symbols, lettering, construction principles, details, and codes as related to the development of working drawings for simple residential design.

**ARCH 106 Intermediate Architectural Drafting (3)**

1 1/2 hours lecture - 4 1/2 hours laboratory

**Prerequisite:** A minimum grade of 'C' in ARCH 105

**Transfer acceptability:** CSU

A continued study in residential design including study in details, materials, elevations, specifications, electrical, and plumbing.

**ARCH 120 Architectural History (3)**

3 hours lecture

**Transfer acceptability:** CSU; UC

An overview of architectural history beginning with prehistoric cultures and continuing through Egyptian and Mesopotamia, Aegean and Greek, Roman and Byzantine, Romanesque and Gothic, and the Renaissance and Baroque periods. The second half of the course focuses on the development of modern western architecture.

**ARCH 121 Multicultural Architectural History (3)**

3 hours lecture

**Transfer acceptability:** CSU; UC

A comparative study of the architecture of cultures outside the Western mainstream including: Pre-Columbian America; India and Southeast Asia, China and Japan, Russia and Eastern Europe; and the Moslem Empires. Special emphasis on the cultural forces and conditions which shaped and evolved the architecture.

**ARCH 125 AutoCAD Introduction to Computer Aided Drafting (3)***1½ hours lecture - 4½ hours laboratory***Transfer acceptability:** CSU; UC; Not qualified for CAN code

An introduction to computer aided drafting using AutoCAD software and IBM compatible computers. Hands-on experience with AutoCAD to include the following operations: preparing and editing drawings, storage and retrieval of drawings, and production of commercial quality drawings on a plotter. Introductory computer terminology and techniques in Windows.

**ARCH 129 Basic Architectural Drafting with Auto CAD (3)***1½ hours lecture - 4½ hours laboratory***Transfer acceptability:** CSU

Basic fundamentals of architectural drafting using AutoCAD software to include the following drawings: plot plans, floor plans, foundation plans, framing plans, sections, elevations, and basic construction details.

**ARCH 135 Architectural Materials and Methods of Construction (4)***3 hours lecture - 3 hours laboratory***Transfer acceptability:** CSU

An introduction to the use and application of building construction materials and processes.

**ARCH 144 Architectural Drawing and Color (4)***3 hours lecture - 3 hours laboratory***Transfer acceptability:** CSU; UC

An introduction to basic architectural drawing and design that explores the theory and application of perspective, shades and shadows, and color to architectural sketching, drawing, and model building. Includes a basic architectural design problem exploring the concept of architectural complexity.

**ARCH 145 Architectural Delineation and Pictorial Drawing (4)***3 hours lecture - 3 hours laboratory***Recommended preparation:** ID/ARCH 150**Note:** May not be taken for Pass/No Pass grading**Transfer acceptability:** CSU; UC

Principles and techniques of pictorial drawing in architecture including isometric, oblique, and perspective projection; shades and shadows; and presentation graphics. The three dimensional and shading capabilities of AutoCAD will be utilized in coordination with the use of Photoshop and SketchUP software as a color rendering tool. Abstract architectural design concepts will also be explored.

**ARCH 150 Computer Aided Drafting for Designers (CADD) (3)***1½ hour lecture - 4½ hours laboratory***Note:** Cross listed as ID 150**Transfer acceptability:** CSU

Introduction to computer aided drafting for architects and interior designers, to include two and some three-dimensional drawing, blocks, draw and modify design tools, rendering, barrier free design, and architectural floor plan layouts.

**ARCH 155 Architectural Theory (3)***3 hours lecture***Transfer acceptability:** CSU

A study and analysis of the concepts and philosophies that have influenced or been the basis of architectural form from the Classical period to the present. The analysis will include the use of drawing and model-building tools to gain an understanding of these principles applied to specific structures throughout history.

**ARCH 160 Environmental Architecture and Design (4)***3 hours lecture - 3 hours laboratory***Note:** May not be taken for Pass/No Pass grading**Transfer acceptability:** CSU; UC

Introduction to the theory and application of bio-climate adaptive architectural design in small scale buildings. Includes effective energy use, solar geometry, environmental measurements, heat flow, heat transfer, and thermal masses. Emphasis is on design and construction principles for lighting, passive shading, heating, cooling and ventilating envelope load-dominated buildings. This is a service learning

course. Students must be involved in relevant community service as a part of this course work. Students will conduct research and work collaboratively towards a solution for community development.

**ARCH 196 Special Problems in Architecture (1, 2, 3)***½, 1, or 1½ hours lecture - 1½, 3, or 4½ hours laboratory***Note:** May not be taken for Pass/No Pass grading**Transfer acceptability:** CSU; UC - credit determined by UC upon review of course syllabus

Designed to enrich the student's experience within the Architecture program and is of a research or special project nature. Content to be determined by the need of the student under signed contract with the instructor.

**ARCH 200 Advanced Computer Aided Architectural Drafting (4)***2 hours lecture - 6 hours laboratory***Prerequisite:** A minimum grade of 'C' in ARCH/ID 150, or ARCH/DT 125, and a minimum grade of 'C' in ARCH 105, or concurrent enrollment in ARCH 105**Transfer acceptability:** CSU

Advanced techniques in the operation of AutoCAD software for architectural applications. Preparation of various architectural working drawings from a preliminary residential design.

**ARCH 202 Introduction to Revit Architecture (3)***1½ hours lecture - 4½ hours laboratory***Transfer acceptability:** CSU

Preparation of basic 3D architectural information models and (BIM). Manipulation for preparation of individual architectural working drawings, including: dimensioned floor plans, building sections, elevations, etc. using Revit software.

**ARCH 215 Architectural Design Fundamentals I (5)***2½ hours lecture - 7½ hours laboratory***Recommended preparation:** ARCH 144 and 145**Transfer acceptability:** CSU; UC

Development of problem solving and analytical skills in architectural design involving consideration of factors of architectural form in two- and three-dimensional compositions, and design concepts and applications.

**ARCH 216 Architectural Design Fundamentals II (5)***2½ hours lecture - 7½ hours laboratory***Recommended preparation:** ARCH 145 and 215**Transfer acceptability:** CSU; UC

Complex architectural problems involving consideration of factors of structure, site, and climate.

## Art (ART)

Contact the Art Department for further information.

(760) 744-1150, ext. 2302

Office: D-14

### Associate in Science Degrees -

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

- Graphic Design
- Illustration
- Interactive Media Design - Emphasis in 3D Modeling and Animation
- Interactive Media Design - Emphasis in Multimedia Design

### Associate in Arts Degrees -

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

- Pictorial Arts - Emphasis in Painting
- Three-Dimensional Arts - Emphasis in Ceramics
- Three-Dimensional Arts - Emphasis in Crafts
- Three-Dimensional Arts - Emphasis in Glass
- Three-Dimensional Arts - Emphasis in Jewelry and Metalsmithing
- Three-Dimensional Arts - Emphasis in Sculpture