

## Arabic (ARAB)

Contact the World Languages Department for further information.  
(760) 744-1150, ext. 2390  
Office: F-5

### COURSE OFFERINGS

#### ARAB 101A Arabic IA (3)

3 hours lecture

**Note:** Covers the first half of first semester Arabic.

**Transfer acceptability:** CSU; UC

Arabic 101A and 101B are equivalent to the first semester of an elementary level course in Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures. This beginning-level course is for students with no previous coursework in Arabic.

#### ARAB 101B Arabic IB (3)

3 hours lecture

**Prerequisite:** A minimum grade of 'C' in ARAB 101A or one year of high school Arabic

**Note:** Covers the second half of first semester Arabic.

**Transfer acceptability:** CSU; UC

Arabic 101A and 101B are equivalent to the first semester of an elementary level course in Arabic. ARAB 101B is a continuation of ARAB 101A. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures.

#### ARAB 102A Arabic IIA (3)

3 hours lecture

**Prerequisite:** A minimum grade of 'C' in ARAB 101B or two years of high school Arabic

**Note:** Covers the first half of second semester Arabic.

**Transfer acceptability:** CSU; UC

Arabic 102A and 102B are equivalent to the second semester of an elementary level course in Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures.

#### ARAB 102B Arabic IIB (3)

3 hours lecture

**Prerequisite:** A minimum grade of 'C' in ARAB 102A or two years of high school Arabic

**Note:** Covers the second half of second semester Arabic.

**Transfer acceptability:** CSU; UC

Arabic 102A and 102B are equivalent to the second semester of an elementary course in Arabic. Arabic 102B is a continuation of Arabic 102A. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures.

#### ARAB 201A Arabic IIIA (3)

3 hours lecture

**Prerequisite:** A minimum grade of 'C' in ARAB 102B or three years of high school Arabic

**Note:** Covers the first half of third semester Arabic.

**Transfer acceptability:** CSU; UC

Arabic 201A and 201B are equivalent to the third semester of an intermediate course in Arabic. 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.

#### 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.

**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: ST-49

### Associate in Arts Degrees -

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

- Architecture
- Architectural Drafting

### Certificates of Achievement -

- Architectural Drafting
- Eco-Building Professional

### PROGRAMS OF STUDY

#### Architecture

Prepares students for advanced transfer into a university architectural program. Students should review specific course requirements and transfer agreements with their architectural instructor and a counselor.

#### A.A. DEGREE MAJOR\*

##### Program Requirements

ARCH 105	Basic Architectural Drafting	3
ARCH 120	Architectural History	3
ARCH 121	Multicultural Architectural History	3
ARCH 135	Architectural Materials and Methods of Construction	3
ARCH 144	Architectural Drawing and Color	4
ARCH 145	Architectural Delineation and Pictorial Drawing	4
ARCH 215	Architectural Design Fundamentals I	5
ARCH 216	Architectural Design Fundamentals II	5

##### Electives (Select 9 units)

DT/ARCH 125	AutoCAD Introduction to Computer Aided Drafting	3
DT 180	3D Studio Max - Introduction to 3D Modeling and Animation	3
GCIP/		
R GCIP 140	Digital Imaging/Photoshop I	4
MATH 115	Trigonometry	3
MATH 140	Calculus with Analytic Geometry, First Course	5
MATH 141	Calculus with Analytic Geometry, Second Course	4
PHYS 120	General Physics	4
PHYS 121	General Physics	4

**TOTAL UNITS 39**

\*Architecture A.A. Degree Major pending approval by the California Community Colleges Chancellor's Office at the time of catalog production.

## Architectural Drafting

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

### A.A. DEGREE MAJOR OR CERTIFICATE OF ACHIEVEMENT

Program Requirements	Units
ARCH 105 Basic Architectural Drafting	3
DT/ARCH 125 AutoCAD Introduction to Computer Aided Drafting	3
ARCH 135 Architectural Materials and Methods of Construction	3
ARCH 144 Architectural Drawing and Color	4
ARCH 145 Architectural Delineation and Pictorial Drawing	4
ARCH 155 Architectural Theory	3
ARCH 160 Environmental Architecture and Design	4
ARCH 200 Advanced Computer Aided Architectural Drafting	4
DT/ARCH 202 Introduction to Revit Architecture	3
<b>Electives (Select 9 units)</b>	
ARCH 120 Architectural History	3
ARCH 121 Multicultural Architectural History	3
CSIT/R CSIS 120 Computer Applications	3
CE 100 Cooperative Education	I - 4
CE 105 Job Hunting Techniques	I - 3
DT 126 AutoCAD Intermediate Computer Aided Drafting	3
DT 127 AutoCAD Customization	2
MATH 115 Trigonometry	3
<b>TOTAL UNITS</b>	<b>40</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	3
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>18</b>

Recommended Electives: GEOG 120, MATH 60

\*Eco-Building Professional Certificate of Achievement pending approval by the California Community Colleges Chancellor's Office at the time of catalog production.

### COURSE OFFERINGS

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

1½ hours lecture - 4½ 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)

1½ hours lecture - 4½ 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 – ARCH 120 and 121 combined: maximum credit, one course

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 – ARCH 120 and 121 combined: maximum credit, one course

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

**Note:** Cross listed as as DT 125; may be taken 2 times; maximum of 4 completions in any combination of ARCH/DT 125, DT 126 and DT 127.

**Transfer acceptability:** CSU; UC – ARCH 125 and 126 combined: maximum credit, one course

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 135 Architectural Materials and Methods of Construction (3)

1½ hours lecture - 4½ 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

**Note:** May be taken 2 times

**Transfer acceptability:** CSU; UC - ARCH 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units

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:** DT/ARCH 125

**Note:** May not be taken for Pass/No Pass grading; may be taken 2 times

**Transfer acceptability:** CSU; UC - ARCH 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units

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 software as a color rendering tool. Abstract architectural design concepts will also be explored.

#### 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 be taken 3 times. May not be taken for Pass/No Pass grading**Transfer acceptability:** CSU; UC - ARCH 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units

An introduction to the theory and application of bio-climate adaptive architectural design in small scale buildings including 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 200 Advanced Computer Aided Architectural Drafting (4)**

2 hours lecture - 6 hours laboratory

**Prerequisite:** A minimum grade of 'C' in ID 150, or ARCH/DT 125, and a minimum grade of 'C' in ARCH 105, or concurrent enrollment in ARCH 105**Note:** May be taken 2 times**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

**Recommended preparation:** ARCH 200**Note:** Cross listed as DT 202. May be taken 2 times**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 - ARCH 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units

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 - ARCH 144, 145, 160, 215, 216 and ART 102, 103 combined: maximum credit, 18 units

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 Arts Degrees -**

AA 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
- Pictorial Arts - Emphasis in Painting
- Pictorial Arts - Emphasis in Printmaking
- 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

**Certificates of Achievement -**

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

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

**Certificates of Proficiency -**

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

- Digital Animation, Compositing, and Music

**PROGRAMS OF STUDY****Digital Animation, Compositing, and Music**

This program is directed at the digital design and implementation of 3D animations, graphic compositing and music.

**CERTIFICATE OF PROFICIENCY**

Program Requirements (5 courses minimum required)		Units
ARTI 246	Digital 3D Design and Modeling	3
ARTI 247	Digital 3D Design and Animation	3
GCMW 204	Motion Graphics for Multimedia	4
GCMW 206	Motion Graphics Production and Compositing	4
MUS 180	Computer Music I	3
MUS 184	Electronic Ensemble	3

**TOTAL UNITS****16-17**

Digital Animation, Compositing, and Music Certificate of Proficiency is also listed in Graphic Communications - Multimedia and Web, and in Music.

**Graphic Design**

Prepares students in basic skills necessary to prepare a portfolio for application to graphic Design, environmental Design, and packaging Design programs at 4 year schools. In addition, develops creative Design ability and conceptual skills in the printed media, motion graphics, and web Design.

**A.A. DEGREE MAJOR**

Program Requirements		Units
ART 104	Design and Composition	3
ART 166	History of Art II	3
ART 200	Color/Light and Theory	3
ARTD 100	Graphic Design I	3
ARTD 150	Digital Concepts and Techniques in Art	3
ARTD 200	Graphic Design II- Lettering and Layout	3
ARTD 210	Typography Design	3
ARTD 220	Motion Design	3
ARTD 250	New Media Studio	3
ARTI 100	Introduction to Illustration	3
ARTI 246	Digital 3D Design and Modeling	3
ARTI 247	Digital 3D Design and Animation	3
BUS 150	Advertising	3
PHOT 100	Elementary Photography	3.5
Final Art Portfolio Review		0

**Electives (Select 6-7 units)**

ART 120	Life Drawing and Composition I	3
ART 296	Special Projects	1, 2, 3
ARTI 220	Illustration II Digital Techniques	3
R GCIP/		
GCIP 140	Digital Imaging/Photoshop I	4
R GCIP/		
GCIP 152	Desktop Publishing/Illustrator I	3
RTV 275	Avid Editing for Television and Film	3
BMGT 105	Small Business Management	3
MUS 180	Computer Music I	3