

**AP SC 102 Electrical Theory and Practices DC (4)**

3 hours lecture-3 hours laboratory

**Prerequisite:** AP SC 101**Note:** May be taken 2 times

Study of floor and plot plans, basic blueprint reading and circuit drawing, theory of magnetism, DC and AC generators, motors and transformers, on-the-job safety, first aid, electrical code, telephony and data communications.

**AP SC 103 Electrical Theory and Practices AC (4)**

3 hours lecture-3 hours laboratory

**Prerequisite:** AP SC 102**Note:** May be taken 2 times

Study of apprenticeship, electrical inductance, capacitance and reactance, including grounded conductors, branch circuits, transformer principles, RCL circuits and filters.

**AP SC 104 Semiconductor Electronics (4)**

3 hours lecture-3 hours laboratory

**Prerequisite:** AP SC 103**Note:** May be taken 2 times

Study of solid-state electronic theory and components, diodes, transistors, SCR, triacs, diacs, IC amplifiers and op amps.

**AP SC 105 Introduction to Digital Electronics and Signaling Devices (4)**

3 hours lecture-3 hours laboratory

**Prerequisite:** AP SC 104**Note:** May be taken 2 times

Introduction to digital electronic technology and electronic equipment. Instruction includes basic digital systems, binary and decimal numbering systems, decision-making logic circuits, Boolean Algebra, flip-flops, counters, shift registers, encoders, decoders, ROMs, DC to AC converters and organization of these component blocks to accomplish manipulation of data.

**AP SC 106 Management/Alarms/Codes/Circuits (4)**

3 hours lecture-3 hours laboratory

**Prerequisite:** AP SC 105**Note:** May be taken 2 times

Introduction to management, installation of security and fire alarm systems, the National Electrical Code as it relates to alarm installation and circuits as applied to alarm systems.

**AP SC 107 Life Safety and Security System Applications (4)**

3 hours lecture-3 hours laboratory

**Prerequisite:** AP SC 106**Note:** May be taken 2 times

Continuation of digital theory studies. Instruction expands coverage of Life Safety Systems, and introduces the theory and application of Nurse Call Systems and Security Systems with an emphasis on closed circuit television (CCTV) installations.

**AP SC 108 Specialized Systems and Supervision Techniques (4)**

3 hours lecture-3 hours laboratory

**Prerequisite:** AP SC 107**Note:** May be taken 2 times

Study of specialized building systems including cable television systems (CATV), master antenna systems (MATV), and building automation systems. Training will cover aspects of job administration including personal computer use, job estimating, customer relations, and building system startup procedures.

**AP SC 197 Sound and Communication Systems Installer Topics (.5-4)**

Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture, laboratory, or lecture/laboratory may be scheduled by the department. Refer to Class Schedule.

**Prerequisite:** Indentured apprentice to the Riverside, San Bernardino, Mono, and Inyo Counties Sound and Communications Joint Apprenticeship Committee or the San Diego Sound & Communications Joint Apprenticeship Committee

**Note:** May be taken 4 times

Topics in Sound and Communication Systems Installer. See Class Schedule for specific topic covered. Course title will designate subject covered.

**Work Experience (AP WE)****AP WE 110 Sheet Metal Work Experience (4)**

12 hours laboratory

**Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee**Note:** Credit/No Credit grading only; may be taken 4 times Supervised on-the-job training in the Sheet Metal Trade.**AP WE 111 Carpentry Work Experience (4)**

12 hours laboratory

**Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee**Note:** May be taken 4 times; Credit/No Credit grading only Supervised on-the-job training in the Carpentry trade.**AP WE 112 Drywall/Acoustical Work Experience (4)**

12 hours laboratory

**Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee**Note:** May be taken 4 times; Credit/No Credit grading only Supervised on-the-job training in the Interior Systems Trade.**AP WE 113 Electrician Work Experience (4)**

12 hours laboratory

**Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee**Note:** May be taken 4 times; Credit/No Credit grading only Supervised on-the-job training in the Electrician trade.**AP WE 114 Plasterer Work Experience (4)**

12 hours laboratory

**Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee**Note:** May be taken 4 times; Credit No Credit Grading Only Supervised on-the-job training in the Interior Systems Trade.**Arabic (ARAB)**

Contact the Foreign 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:** 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:** 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:** 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:** 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:** 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.

**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		Units
<i>(5 courses minimum required, 15 units total)</i>		
ARTI 246	Digital 3D Design and Modeling	3
ARTI 247	Digital 3D Design and Animation	3
GCMW 204	Motion Graphics for Multimedia	3
GCMW 206	Motion Graphics Production and Compositing	3
MUS 180	Computer Music I	3
MUS 184	Electronic Ensemble	3
<b>TOTAL UNITS</b>		<b>15</b>

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	3
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
MUS 181 or	Computer Music II	3
MUS 184	Electronic Ensemble	3
CE 100	Cooperative Education	1,2,3,4
<b>TOTAL UNITS</b>		<b>48.5 - 49.5</b>

Graphic Design A.A. Degree Major is also listed in Art - Design.