AP SC 705 Introduction to Digital Electronics and Signaling Devices (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in AP SC 704
Introduction to digital electronic technology and electronic equipment. Instruction includes digital systems, binary and decimal numbering systems, decision-making logic circuits, Boolean Algebra, flip-flops, half adders, counters, shift registers, encoders, decoders, ROMs, DC to AC converters and organization of these component blocks to accomplish manipulation of data.

AP SC 706 Management/Alarms/Codes/Circuits (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in AP SC 705
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 707 Life Safety and Security System Applications (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in AP SC 706
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 708 Specialized Systems and Supervision Techniques (4)
3 hours lecture - 3 hours laboratory
Prerequisite: A minimum grade of ‘C’ in AP SC 707
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 797 Sound and Communication Systems Installer Topics (0.5 - 4)
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or 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.
Topics in Sound and Communications Systems Installer. See Class Schedule for specific topic covered. Course title will designate subject covered.

Work Experience (AP WE)
Students may earn a maximum of 16 units in AP Work Experience.

AP WE 710 Sheet Metal Work Experience (4)
12 hours laboratory
Prerequisite: Indentured apprentice to a designated Joint Apprenticeship and Training Committee
Note: Pass/No Pass grading only
Supervised on-the-job training in the Sheet Metal Trade.

AP WE 711 Carpenter Work Experience (4)
12 hours laboratory
Prerequisite: Indentured apprentice to a designated Joint Apprenticeship and Training Committee
Note: Pass/No Pass grading only
Supervised on-the-job training in the Carpentry Trade.

AP WE 712 Drywall/Acoustical Work Experience (4)
12 hours laboratory
Prerequisite: Indentured apprentice to a designated Joint Apprenticeship and Training Committee
Note: Pass/No Pass grading only
Supervised on-the-job training in the Interior Systems Trade.

AP WE 713 Electrician Work Experience (4)
12 hours laboratory
Prerequisite: Indentured apprentice to a designated Joint Apprenticeship and Training Committee
Note: Pass/No Pass grading only
Supervised on-the-job training in the Electrician Trade.

Arabic (ARAB)

COURSE OFFERINGS

ARAB 101 Arabic I (5)
5 hours lecture - 1 hour laboratory
Note: Not open to students with credit for ARAB 101B; corresponds to two years of high school study.
Transfer acceptability: CSU; UC
This course is the first semester of 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. Course combines in-class instruction and practice with self-paced study in the World Languages Laboratory. This beginning-level course is for students with no previous coursework in Arabic.

ARAB 101A Arabic IA (3)
3 hours lecture
Note: Covers the first half of first semester Arabic; not open to students with credit for ARAB 101
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; not open to students with credit for ARAB 101; corresponds to two years of high school study.
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 102 Arabic II (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in ARAB 101 or two years of high school Arabic
Transfer acceptability: CSU; UC
Note: Not open to students with credit for ARAB 102
This course is the second semester of Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with continued emphasis on the development of communicative skills and basic structures. Course combines in-class instruction and practice with self-paced study in the World Languages Laboratory.
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; not open to students with
credit for ARAB 102
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 lan-
guage and Arabic-speaking cultures, with emphasis on the development of com-
municative 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; not open to students with
credit for ARAB 102
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 201 Arabic III (5)
5 hours lecture - 1 hour laboratory
Prerequisite: A minimum grade of ‘C’ in ARAB 102 or three years of high school
Arabic
Transfer acceptability: CSU; UC
Note: Not open to students with credit for ARAB 201B
This course is the third semester of 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. Empha-
sis is on developing oral, listening, reading and writing skills in order to acquire
proficiency in Arabic. Course combines in-class instruction with self-paced study
in the World Languages Laboratory. Class is largely conducted in Arabic.

ARAB 201A Arabic IIIA (3)
3 hours lecture
Prerequisite: A minimum grade of ‘C’ in ARAB 201B or three years of high school
Arabic
Note: Covers the first 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
course in Arabic. This intermediate level course is a study of the Arabic language
and Arabic-speaking cultures, focusing on intermediate level structures and read-
ings 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 IIB (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 interme-
diate level course is a study of the Arabic language and Arabic-speaking cultures,
focusing on intermediate level structures and readings of culturally relevant au-
thentic 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).
• Architectural Drafting
• Architecture

Certificates of Achievement -
• Architectural Drafting
• Architecture
• 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, funda-
mental design skills, sustainable building guidelines, and transfer preparation. Stu-
dents 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

<table>
<thead>
<tr>
<th>Program</th>
<th>Units</th>
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<tbody>
<tr>
<td>ARCH 105 Basic Architectural Drafting</td>
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<tr>
<td>ARCH 120 Architectural History</td>
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<td>or</td>
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<tr>
<td>ARCH 121 Multicultural Architectural History</td>
<td>3</td>
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<tr>
<td>ARCH 135 Architectural Materials and Methods of Construction</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 144 Architectural Drafting and Color</td>
<td>4</td>
</tr>
<tr>
<td>ARCH 145 Architectural Delineation and Pictorial Drawing</td>
<td>4</td>
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<tr>
<td>ARCH 155 Architectural Theory</td>
<td>3</td>
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<tr>
<td>ARCH 215 Architectural Design Fundamentals I</td>
<td>5</td>
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<tr>
<td>ARCH 216 Architectural Design Fundamentals II</td>
<td>5</td>
</tr>
</tbody>
</table>

TOTAL UNITS 31

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

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<td>ID 150 Computer Aided Drafting for Designers (CADD)</td>
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<td>ARCH 160 Environmental Architecture and Design</td>
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<td>ARCH 200 Advanced Computer Aided Architectural Drafting</td>
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<tr>
<td>ARCH 202 Introduction to Revit Architecture</td>
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TOTAL UNITS 29

See Catalog addendum at http://www.palomar.edu/catalog