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COURSE OFFERINGS

AP SC 101 Introduction to the Sound and Communication Trade Industry

3 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in MATH 50. Completion of designated tests with a passing grade determined by the appropriate committee. 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 2 times

Introduction to the sound and communication industry, electrical code, fundamentals of wiring methods, fastening devices, electrical conductors, circuits, voltage and data communication.

AP SC 102 Electrical Theory and Practices DC

3 hours lecture - 3 hours laboratory **Prerequisite:** A minimum grade of 'C' in 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

3 hours lecture - 3 hours laboratory **Prerequisite:** A minimum grade of 'C' in 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:** A minimum grade of 'C' in 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

3 hours lecture - 3 hours laboratory

Prerequisite: A minimum grade of 'C' in 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: A minimum grade of 'C' in 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: A minimum grade of 'C' in 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:** A minimum grade of 'C' in AP SC 107 **Note:** May be taken 2 times

Study of specialized building systems including cable television systems (CATV),

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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

Installer Topics (.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. **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

12 hours laboratory

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Prerequisite: Indentured apprentice to a designated Joint Apprenticeship and Training Committee

Note: Pass/No Pass grading only; may be taken 4 times Supervised on-the-job training in the Sheet Metal Trade.

AP WE III Carpentry Work Experience

12 hours laboratory **Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee

Note: May be taken 4 times; Pass/No Pass grading only Supervised on-the-job training in the Carpentry trade.

APWE 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; Pass/No Pass grading only Supervised on-the-job training in the Interior Systems Trade.

AP WE 113 Electrician Work Experience

12 hours laboratory **Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee

Note: May be taken 4 times; Pass/No Pass grading only Supervised on-the-job training in the Electrician trade.

AP WE 114 Plasterer Work Experience

12 hours laboratory **Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee

Note: May be taken 4 times; Pass/No Pass grading only Supervised on-the-job training in the Interior Systems Trade

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 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.

To satisfy a prerequisite, the student must have earned a letter grade of A, B, C or CR in the prerequisite course, unless otherwise stated. See Catalog addendum at http://www.palomar.edu/catalog/2011/ for updates and new program approvals.

ARAB 101B Arabic IB

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 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 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 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 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: P-8A

Associate in Arts Degrees -

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

Certificates of Achievement -

Architectural Drafting

· Eco-Building Professional

At the time of publication of this catalog, Palomar College was awaiting approval by the California Community Colleges Chancellor's Office for a proposed Architecture Associate in Arts Degree. Should approval be granted, updated information will be announced on the Palomar College catalog addendum at http://www.palomar.edu/catalog/2011/

PROGRAMS OF STUDY

Architectural Drafting

(3)

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

A.A. DEGREE MAIOR OR CERTIFICATE OF ACHIEVEMENT

| Program Requirements | | |
|----------------------|---|-----|
| 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 |
| Electives (Sele | ct 9 unite) | |
| ARCH 120 | Architectural History | 3 |
| ARCH 121 | Multicultural Architectural History | 3 |
| CSIT 120 | Computer Applications | 3 |
| CE 100 | Cooperative Education | 1-4 |
| DT 126 | AutoCAD Intermediate Computer Aided Drafting | 3 |
| DT 120 | AutoCAD Customization | 2 |
| MATH 115 | Trigonometry | 2 |
| | o , | |
| TOTAL UNITS | | 40 |

TOTAL UNITS

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 | | |
|----------------------|---|----|
| 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 |
| TOTAL UNITS | 5 | 18 |

Recommended Electives: GEOG 120, MATH 60

COURSE OFFERINGS

(3)

103

ARCH 105 Basic Architectural Drafting

11/2 hours lecture - 41/2 hours laboratory Transfer acceptability: CSU

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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) |
|----------|-------------------------------------|-----|
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