

## Apprenticeship Training (AP)

Acoustical Installer, Carpentry, Drywall/Lather, Electrician, Inside Wireman, Plasterer, Sheet Metal, Sound and Communication Systems, Sound Technician

Contact Occupational & Noncredit Programs for further information.  
(760) 744-1150, ext. 2600  
Office: AA-135

### Associate in Science Degrees -

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

- Acoustical Installer
- Carpentry
- Drywall/Lather
- Electrician
- Inside Wireman
- Plasterer
- Sheet Metal
- Sound and Communication Systems Installer
- Sound Technician

### Certificates of Achievement -

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

- Acoustical Installer
- Carpentry
- Drywall/Lather
- Electrician
- Inside Wireman
- Plasterer
- Sheet Metal
- Sound and Communication Systems Installer
- Sound Technician

### PROGRAMS OF STUDY

A program for the training of apprentices, consisting of full-time, on-the-job employment plus related classroom instruction.

**A CERTIFICATE OF ACHIEVEMENT and/or JOURNEYPERSON TRADE CERTIFICATE will be awarded to students for each program successfully completed. Students who wish to obtain an Associate in Arts Degree may do so by fulfilling the general graduation requirements in addition to the completion of the apprenticeship courses.**

A program is maintained for the training of apprentices in the trades as listed. Students who wish to become apprentices should appear before the appropriate Joint Apprenticeship Committee. Training consists of full-time work on-the-job supplemented by related classroom instruction. All students entered in the apprenticeship work experience program are expected to enter AP WE 710, 711, 712, 713, or 714. A maximum of 16 units, Pass/No Pass only, may be earned in Cooperative Work Experience Education, not to exceed 8 units each semester.

Students whose work or attendance is not satisfactory may be dropped from the program by the College, or other corrective measures may be taken by the Joint Apprenticeship Committee. The College grants academic credit for the successful completion of the training program.

Upon completion of the training program, journeyperson trade certificates and college achievement certificates are awarded at a special completion ceremony.

**SAFETY GLASSES** - Education Code 32030-32034 requires that safety glasses be worn in those classes where eye damage might occur. Students in such classes will be so informed by their instructors. Glasses are available at the college bookstore.

## Acoustical Installer (AP AC)

A three-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

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

Program Requirements	Units
AP DL/AP PL/ AP AC 701 Orientation	1.5
AP DL/AP PL/ AP AC 702 Safety and Health Certifications	1.5
AP DL/AP PL/ AP AC 703 Printreading	1.5
AP DL/ AP AC 704 Advanced Printreading	1.5
AP AC 705 Acoustical Ceilings	1.5
AP AC 706 Standard Acoustical Grids	1.5
AP AC 707 Suspended Ceilings	1.5
AP AC 708 Soffits	1.5
AP AC 709 Prefab/Sound Panels	1.5
AP AC 710 Concealed/Glue-Up/Staple-Up System	1.5
AP AC 711 Designer and Specialty Trims	1.5
AP AC 712 Metal Pan and Security Systems	1.5
AP AC 713 Advanced Acoustical Installation	1.5
AP AC 714 Advanced Acoustical Layout	1.5
AP AC 715 Drywall Acoustical Ceilings	1.5
AP WE 712 Drywall/Acoustical Work Experience	16
<b>TOTAL UNITS</b>	<b>38.5</b>

### COURSE OFFERINGS

**AP AC 701 Orientation (1.5)**  
1 hour lecture - 1 1/2 hours laboratory  
**Prerequisite:** Indentured apprentice to a designated Joint Apprenticeship and Training Committee

**Note:** Cross listed as AP DL 701/AP PL 701  
An introduction to the Interior Systems program. Safe and proper use of hand tools, power tools, trade related math, beginning print reading and layout as well as safety certifications. Certifications will include scaffold erector/dismantler (welded frame) and low velocity powder actuated tools.

**AP AC 702 Safety and Health Certifications (1.5)**  
1 hour lecture - 1 1/2 hours laboratory  
**Note:** Cross listed as AP DL 702/AP PL 702

Instruction in safety and health training that meets the needs of the Interior Systems industry. Content includes certification in Power Industrial Trucks, Aerial Lift, American Red Cross First Aid / CPR/AED, and OSHA 10.

**AP AC 703 Printreading (1.5)**  
1 hour lecture - 1 1/2 hours laboratory  
**Note:** Cross listed as AP DL 703/AP PL 703

An introduction to the basic visualization skills needed for reading and interpreting construction prints. Demonstration of the significance of views, elevations and the role of specifications as they relate to prints.

**AP AC 704 Advanced Printreading (1.5)**  
1 hour lecture - 1 1/2 hours laboratory

**Prerequisite:** A minimum grade of 'C' in AP AC 703/AP DL 703  
**Note:** Cross listed as AP DL 704

In-depth training for on-the-job print reading situations. Covers advanced layout tasks and solutions to typical construction problems using plans and specifications for commercial construction projects.

**AP AC 705 Acoustical Ceilings (1.5)***1 hour lecture - 1½ hours laboratory*

Instruction in acoustical ceilings, seismic codes and the theory behind them. Wall molds and trims, ceiling layout and material identification. Students will install ceilings using the technical knowledge and skills.

**AP AC 706 Standard Acoustical Grids (1.5)***1 hour lecture - 1½ hours laboratory*

Designed with classroom instruction but will focus more on acoustical grid installation such as 2 x 4 and 2 x 2 flat AH@ pattern, radius, gable and diagonal ceilings.

**AP AC 707 Suspended Ceilings (1.5)***1 hour lecture - 1½ hours laboratory*

Designed with classroom instruction but will focus more on acoustical grid installation such as 2 x 4 and 2 x 2 flat AH@ pattern, radius, gable and diagonal ceilings.

**AP AC 708 Soffits (1.5)***1 hour lecture - 1½ hours laboratory*

Focus on square and slant faced, tapered, concealed, drywall suspension and sloped soffits.

**AP AC 709 Prefab/Sound Panels (1.5)***1 hour lecture - 1½ hours laboratory*

Focus on the technical knowledge and skills needed for the installation of pre-fabricated wall and ceiling panel systems. Acoustical principles and the theory of sound will be discussed.

**AP AC 710 Concealed/Glue-Up/Staple-Up System (1.5)***1 hour lecture - 1½ hours laboratory*

Instruction in concealed and semi-concealed ceilings and soffits, glue-up and staple-up. Technical knowledge and skills will be demonstrated in assembling these ceilings.

**AP AC 711 Designer and Specialty Trims (1.5)***1 hour lecture - 1½ hours laboratory*

This course is a more advanced look at specialty and designer trims for grid ceiling systems. Previous knowledge will be applied when laying out and installing straight and curved trims in soffit and light pocket designs, along with clouds, or free floating, trimmed ceilings.

**AP AC 712 Metal Pan and Security Systems (1.5)***1 hour lecture - 1½ hours laboratory*

Focus on the technical knowledge and skills needed to work with these "high end" products.

**AP AC 713 Advanced Acoustical Installation (1.5)***1 hour lecture - 1½ hours laboratory*

Instruction in the materials and methods used for the installation of custom and intricate grid systems. Green building rating systems will be applied to selected acoustical materials.

**AP AC 714 Advanced Acoustical Layout (1.5)***1 hour lecture - 1½ hours laboratory*

Advanced layout methods used to complete complex acoustical system installations. Covers seismic codes and requirements and layout techniques for establishing intricate geometric designs for ceiling grids.

**AP AC 715 Drywall Acoustical Ceilings (1.5)***1 hour lecture - 1½ hours laboratory*

Identifies the materials and methods used for the installation of acoustical ceilings. Seismic codes, materials, and requirements are also reviewed. Installation for various grid systems will be discussed. Students will use the skills presented to complete an acoustical ceiling project as part of this course.

**AP AC 797 Acoustical 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.

Topics in Acoustical. See Class Schedule for specific topic offered. Course title will designate subject covered.

**Carpentry (AP C)**

A four-year apprenticeship program. Applicants for this program should be directed to the Carpenters Joint Apprenticeship and Training Committee for Southern California, San Diego Carpenters Training Center, 8595 Miralani Drive, San Diego, CA 92126. Telephone (858) 621-2667.

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

Program Requirements	Units
AP C 701 Orientation	1.5
AP C 702 Safety and Health Certification	1.5
AP WE 711 Carpentry Work Experience	16

**Electives (Select 14 courses)**

AP C 703	Printreading	1.5
AP C 704	Advanced Printreading	1.5
AP C 705	Foundation and Flatwork	1.5
AP C 707	Tilt-Up Panel Construction	1.5
AP C 708	Wall Forming	1.5
AP C 709	Gang Forms/Columns	1.5
AP C 710	Patented Forming Systems	1.5
AP C 712	Column Forms	1.5
AP C 713	Beam and Deck Forming	1.5
AP C 714	Basic Commercial Framing	1.5
AP C 715	Advanced Commercial Framing	1.5
AP C 716	Commercial Floor Framing	1.5
AP C 717	Basic Stairs	1.5
AP C 718	Advanced Stairs	1.5
AP C 719	Exterior Finish Details	1.5
AP C 721	Basic Roof Framing	1.5
AP C 723	Basic Metal Framing	1.5
AP C 725	Transit Level/Laser	1.5
AP C 726	Bridge Construction	1.5
AP C 727	Stair and Ramp Forming	1.5
AP C 728	Stair Trim	1.5
AP C 729	Cabinet Millwork and Assembly	1.5
AP C 730	Cabinet Installation	1.5
AP C 735	Molding and Trim	1.5
AP C 736	Plastic Laminates	1.5
AP C 737	Door and Door Frames	1.5
AP C 739	Door and Door Hardware	1.5
AP C 745	Commercial Fixtures	1.5
AP C 746	Showcases and Loose Store Fixtures	1.5
AP C 747	Basic Suspended Scaffold	1.5
AP C 748	Advanced Suspended Scaffold	1.5
AP C 749	Basic Systems Scaffold	1.5
AP C 750	Intermediate Systems Scaffold	1.5
AP C 751	Advanced Systems Scaffold	1.5
AP C 752	Basic Frame Scaffold	1.5
AP C 753	Intermediate Frame Scaffold	1.5
AP C 754	Advanced Frame Scaffold	1.5
AP C 755	Basic Tube & Clamp Scaffold	1.5
AP C 756	Scaffold in Confined Spaces	1.5
AP C 757	Specialty Scaffold Applications	1.5
AP C 758	Scaffold Reshoring	1.5
AP C 759	Scaffold - Printreading	1.5
AP C 760	Scaffold - Advanced Printreading	1.5
AP C 761	Basic Wall Framing	1.5
AP C 762	Intermediate Stairs	1.5
AP C 763	Advanced Roof Framing	1.5
AP C 764	Abutments	1.5
AP C 765	Rigging	1.5
AP C 766	Solid Surface	1.5
AP C 767	Panelized Roof	1.5
AP C 768	Fitting Rooms/Partitions	1.5
AP C 769	Exit and Electrical Security Devices	1.5
AP C 770	Green Building and Weatherization	1.5
AP C 771	Intermediate Commercial Framing	1.5