

**ANTH 220 Advanced Archaeological Surveying (3)**  
 2 hours lecture-2 hours lecture/laboratory  
**Recommended preparation:** ANTH 210  
**Transfer acceptability:** CSU

Advanced archaeological survey techniques including sample survey, site relocation, and the use of Global Positioning System (GPS) and laser transit hardware and software for site recordation, data conversion, site mapping, and the completion of a mapping program.

**ANTH 225 Historical Archaeology (3)**  
 2 hours lecture-2 hours lecture/laboratory  
**Recommended preparation:** ANTH 120  
**Note:** May not be taken for Pass/No Pass grading  
**Transfer acceptability:** CSU

Method and theory of historical archaeology, including archival research, artifact identification, and report preparation. Training in the location and interpretation of archival documents, such as Franciscan Mission records, Spanish land grant documents, homestead patents, Sanborn fire insurance maps, assessor's records, and historical topographic maps. Training in the identification of ceramic, glass and metal artifacts and their associated function, method of manufacture, manufacturer, and temporal distribution.

**ANTH 296 Special Problems in Anthropology (1, 2, 3)**  
 3, 6, or 9 hours laboratory  
**Note:** ANTH 296 and 297 may be taken 4 times as Archaeology AA degree electives for a combined maximum of 6 units.  
**Transfer acceptability:** CSU; UC - Credit determined by UC upon review of course syllabus.

An individualized or group project in cultural or physical anthropology of any nature approved by the instructor and under the personal supervision of the instructor.

**ANTH 297 Special Problems in Archaeology (1, 2, 3)**  
 3, 6 or 9 hours laboratory  
**Note:** ANTH 296 and 297 may be taken 4 times as Archaeology AA degree electives for a combined maximum of 6 units.  
**Transfer acceptability:** CSU; UC - Credit determined by UC upon review of course syllabus.

An individualized or group project in archaeology approved by the instructor and under the personal supervision of the instructor.

**Apprenticeship Training (AP)**  
**Acoustical Installer, Carpentry, Drywall/Lather, Electrician, Inside Wireman, Plasterer, Residential Wireman, Sheet Metal, Sound and Communication Systems, Sound Technician**

Contact Occupational & Noncredit Programs for further information.  
 (760) 744-1150, ext. 2600  
 Office: AA-138

**Associate in Arts Degrees -**

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

- Acoustical Installer
- Carpentry
- Drywall/Lather
- Electrician
- Inside Wireman
- Plasterer
- Residential Wireman
- 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
- Residential Wireman
- 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 JOURNEYPEPERSON 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 110, 111, 112, 113, or 114. 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, journey person trade certificates and college achievement certificates are awarded at a special completion ceremony.

The final digit in the course number indicates that period of apprenticeship.

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

Program Requirements	Units
AP DL/AP PL/ AP AC 201 Orientation	1.5
AP DL/AP PL/ AP AC 202 Safety and Health Certifications	1.5
AP DL/AP PL/ AP AC 203 Printreading	1.5
AP DL/AP PL/ AP AC 204 Advanced Printreading	1.5
AP AC 205 Acoustical Ceilings	1.5
AP AC 206 Standard Acoustical Grids	1.5
AP AC 207 Suspended Ceilings	1.5
AP AC 208 Soffits	1.5
AP AC 209 Prefab/Sound Panels	1.5
AP AC 210 Concealed/Glue-up/Staple-up System	1.5
AP AC 211 Compasso	1.5
AP AC 212 Metal Pan and Security Systems	1.5
AP AC 213 Advanced Acoustical Installation	1.5
AP AC 214 Advanced Acoustical Layout	1.5
AP WE 112 Drywall/Acoustical Work Experience	16
<b>TOTAL UNITS</b>	<b>37</b>

## COURSE OFFERINGS

**AP AC 197 Acoustical Topics (1.5 - 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.

**Note:** May be taken 4 times

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

**AP AC 201 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 201/AP PL 201; may be taken two times

Introduction to the Interior Systems program. Content includes safe and proper usage of hand tools, power/powder tools, an introduction to trade related math, beginning blueprint reading and layout. Certifications will include Ramset/Red Head or Hilti low velocity power/powder actuated tools and scaffold erector/dismantler (welded frame).

**AP AC 202 Safety and Health Certifications (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** Cross listed as AP DL 202/AP PL 202; may be taken two times

Designed to incorporate learning theories, methods and techniques that meet the needs of the Interior Systems industry. Content includes certification in forklift, aerial lift, American Red Cross, First Aid/CPR and OSHA 10.

**AP AC 203 Printreading (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** Cross listed as AP DL 203/AP PL 203; may be taken two times

This course is designed to teach the basics of reading, understanding and visualizing the blueprints. Terms, symbols and definitions from several trades will be incorporated. Prints showing both residential and commercial application will be used. Related safety, math and blueprint reading will be covered.

**AP AC 204 Advanced Printreading (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Prerequisite:** A minimum grade of 'C' in AP AC 203/AP DL 203

**Note:** Cross listed as AP DL 204/AP PL 204; may be taken two times

This course will give the student more in depth training related to on the job conditions. Basic estimating, material take offs and organizing jobs will be included.

**AP AC 205 Acoustical Ceilings (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Instruction in acoustical ceilings, seismic codes and the theory behind them. Practical application in wall molds and trims, ceiling layout and material identification.

**AP AC 206 Standard Acoustical Grids (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Instruction in acoustical grid installation such as 2 x 4 and 2 x 2 flat "H" pattern, radius, gable and diagonal ceilings.

**AP AC 207 Suspended Ceilings (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Instruction in the technical skills required to install circular ceilings with drops, drywall suspension grid in both square and circular areas.

**AP AC 208 Soffits (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Focus on advanced knowledge and skills required to construct square and slant faced, tapered, concealed, drywall suspension, and sloped soffits.

**AP AC 209 Prefab/Sound Panels (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Instruction in the technical knowledge and skills required for installation of sound panels and prefabricated wall and ceiling panel systems.

**AP AC 210 Concealed/Glue-up/Staple-up System (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Instruction in concealed and semi-concealed ceilings and soffits. Both technical knowledge and skills will be used in assembling these ceilings.

**AP AC 211 Compasso (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Advanced instruction and application in concealed systems to include installation of air bars, double soffits and compasso. Hand tools are mandatory.

**AP AC 212 Metal Pan and Security Systems (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Instruction in the technical knowledge and skills needed to work with these "high end" products. Hand tools and gloves are mandatory.

**AP AC 213 Advanced Acoustical Installation (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Identifies the materials and methods used for the advanced installation of acoustical ceilings. Installation for custom and intricate grid systems will be discussed. Green building rating systems will be applied to selected acoustical materials. Students will use the skills presented to complete a complex acoustical ceiling project as part of this course.

**AP AC 214 Advanced Acoustical Layout (1.5)**

1 hour lecture - 1 1/2 hours laboratory

**Note:** May be taken 2 times

Explains the advanced layout methods used to complete complex acoustical system installations. Seismic codes and requirements are also reviewed. Layout techniques for establishing intricate geometric designs for ceiling grids will be discussed and practiced. Students will use the skills presented to complete selected multifaceted acoustical ceiling layout projects as part of this course.

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

Program Requirements		Units
AP C 201	Orientation	1.5
AP C 202	Safety and Health Certification	1.5
AP WE 111	Carpentry Work Experience	16
<b>Electives (Select 14 courses)</b>		
AP C 203	Printreading	1.5
AP C 204	Advanced Printreading	1.5
AP C 205	Foundation and Flatwork	1.5
AP C 206	Flatworks	1.5
AP C 207	Tilt-Up Panel Construction	1.5
AP C 208	Wall Forming	1.5
AP C 209	Gang Forms/Columns	1.5
AP C 210	Patented Forming Systems	1.5
AP C 211	Architectural Concrete	1.5
AP C 212	Column Forms	1.5
AP C 213	Beam and Deck Forming	1.5
AP C 214	Basic Commercial Framing	1.5
AP C 215	Advanced Commercial Framing	1.5
AP C 216	Commercial Floor Framing	1.5
AP C 217	Basic Stairs	1.5