American River College conducts, in cooperation with the local construction unions, a number of apprenticeship programs (most of which can lead to an Associates of Arts degree). An apprenticeship program is a formal system of occupational training from two to five years that combines paid employment, on-the-job training and job related college level instruction in order to develop highly skilled workers.

Apprenticeship programs are a cooperative effort between the Joint Apprenticeship Training Committee (JATC) and the college. The JATC is composed of representatives from both labor and management from each apprenticeship area and their purpose is to oversee apprenticeship training. All American River College apprenticeship programs are approved by the Division of Apprenticeship Standards of the California Department of Industrial Relations.

Enrollment in an apprenticeship course is limited to registered apprentices, however anyone meeting the apprenticeship requirements can apply for acceptance (Apprenticeship 100 is open to everyone without prerequisites). Information on admission to apprenticeship programs can be obtained from the local JATC having jurisdiction over the trade in which you are interested. Listed below are the program types and contact persons.

**Carpenter Apprenticeship**
The Carpenter Apprenticeship program concentrates on training apprentices to the specific levels required for the construction industry and has been approved by the State of California Department of Apprenticeship Standards. Training emphasis includes safety, blueprint reading, residential and commercial construction processes, building codes, estimation, and various carpentry topics

**Career Opportunities**
Upon completion of the Carpenter Apprenticeship degree or certificate, students may find employment in the following sectors: government, residential and commercial construction and maintenance, utilities, and facilities management.

For more information, contact:
Program Director
8000 Chadbourne Rd, Suite A
Fairfield, CA 95485
(707) 399-2880

**Requirements Degree or Certificate** | 36.5 Units
---|---
CARPT 100 Introduction to Carpentry | 0.2
CARPT 102 Worker Safety and Tool Skills | 1.4
CARPT 104 The Apprentice and the Trade | 2
CARPT 110 Foundations and Floors | 1
CARPT 112 Structural Framing | 1
CARPT 114 Form Detailing, Construction & Erection | 1
CARPT 120 Exterior Finish | 1
CARPT 122 Interior Finish | 1
CARPT 130 Layout/Leveling Construction Site Practice | 1
CARPT 140 Interior Systems | 1.3
CARPT 142 Engineered Structural Systems | 1
CARPT 150 Concrete - Precast and Prestressed | 1
CARPT 160 Blueprint Reading-Residential | 1.3
CARPT 162 Blueprint Reading-Commercial | 1.3
CARPT 170 Roof Framing | 1
CARPT 180 Stair Building | 1
CARPT 190 Introduction to Welding and Cutting | 1
CARPT 200 Construction Mathematics & Introduction to Working Drawing | 2
And a minimum of 16 units from the following: | 16
CARPT 298 Work Experience in Carpenters Apprenticeship (1 - 4)

**Associate Degree Requirements:** The Carpenter Apprenticeship Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

**Drywall/Lathing Apprenticeship**
The Drywall/Lathing Apprenticeship program concentrates on training apprentices to the specific levels required for the construction industry and has been approved by the State of California Department of Apprenticeship Standards. Training emphasis includes safety, metal framing, blueprint reading, exterior/interior wall finishes, welding, residential and commercial construction process, building codes, estimation, and various construction topics.
Career Opportunities
Upon completion of the Drywall/Lathing Apprenticeship degree, students may find employment in the following sectors: government, residential and commercial construction and maintenance, utilities, and facilities management. Students may further their career as a licensed contractor.

For more information contact:
Program Director
4421 Pell Drive #B
Sacramento, CA 95838
1-888-315-3098

Requirements for Degree or Certificate 41 Units
DRLTH 100 Introduction to the Trade 2
DRLTH 102 Basic Applications 1.5
DRLTH 105 Mathematics for Drywall/Lathers 2
DRLTH 110 Residential Metal Framing 1.5
DRLTH 112 Doors, Windows, Exterior Systems/Building Documents 1.5
DRLTH 120 Blueprint Reading I 1.5
DRLTH 121 Blueprint Reading II 1.5
DRLTH 122 Blueprint Reading III 1.5
DRLTH 130 Welding I 1.5
DRLTH 131 Welding II 1.5
DRLTH 140 Exterior/Advanced Fire Control System and Partitions 1.5
DRLTH 142 Exterior Systems and Trims 1.5
DRLTH 150 Interior Metal Lathing System, Sound Control 1.5
DRLTH 160 Ceilings, Shaft Protection and Demountable Partitions 1.5
DRLTH 162 Arches, Furring and Advanced Systems 1.5
DRLTH 170 Advanced Construction Techniques 1.5

And a minimum of 16 units from the following: 16
DRLTH 298 Work Experience Drywall/Lathing Apprenticeship (1 - 4)

Associate Degree Requirements: The Drywall/Lathing Apprenticeship Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

Electrical Apprenticeship
This program provides instruction in the installation, operation, and maintenance of the electrical distribution systems in commercial and industrial sites. Topics include safety training, AC and DC electrical theory, metering, electronics, use of electrical codes, raceways, conductors, grounding, motors, transformers, fire alarm systems, fiber optics, instrumentation, building automation and heating, ventilating and air conditioning (HVAC) systems.

Career Opportunities
Upon completion of the electrical program, students may find employment in the following industry sectors: government, commercial and industrial construction and maintenance, utilities, and facilities management. With the degree, students may further their career as licensed contractors.

For more information contact:
Program Director
2836 El Centro Rd.
Sacramento, CA 95833
(916) 646-6688

Requirements for Degree or Certificate 50.7 Units
ELECT 110 Electrical Apprenticeship I 3
ELECT 111 Electrical Apprenticeship II 3.3
ELECT 120 Electrical Apprenticeship III 3.3
ELECT 121 Electrical Apprenticeship IV 3.3
ELECT 130 Electrical Apprenticeship V 3.3
ELECT 131 Electrical Apprenticeship VI 3
ELECT 140 Electrical Apprenticeship VII 3.3
ELECT 141 Electrical Apprenticeship VIII 3.3
ELECT 150 Electrical Apprenticeship IX 3.3
ELECT 151 Electrical Apprenticeship X 3.3

And a minimum of 16 units from the following: 16
ELECT 298 Work Experience in Electricians Apprenticeship

Associate Degree Requirements: The Electrical Apprenticeship Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

Electrical Sound and Communications Apprenticeship
This is a three-year construction trade program.

For more information contact:
Program Director
2836 El Centro Rd.
Sacramento, CA 95833
(916) 646-6688

Requirements for Degree or Certificate 18 Units
ELSC 100 Electrical Sound & Communication Apprenticeship I 3
ELSC 101 Electrical Sound & Communication Apprenticeship II 3
ELSC 110 Electrical Sound & Communication Apprenticeship III 3
ELSC 111 Electrical Sound & Communication Apprenticeship IV 3
ELSC 120 Electrical Sound & Communication Apprenticeship V 3
ELSC 121 Electrical Sound & Communication Apprenticeship VI 3

Associate Degree Requirements: The Electrical Sound and Communications Apprenticeship Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

Residential/Commercial Electrician Trainee Certificate
This program provides instruction in the installation, operation, and maintenance of the electrical distribution systems in residential and commercial sites. Topics include safety training, AC/DC electrical theory, metering, electronics, use of electrical codes, raceways, conductors, grounding, motors, transformers, fire alarm systems, fiber optics, and HVAC systems. The program complies with state regulations to become an Electrician Trainee.

Career Opportunities
Upon completion of the Residential/Commercial Electrician Trainee program, students may find employment in the following industry sectors: government, residential and commercial construction and maintenance, utilities, and facilities management.
Ironworker Apprenticeship

The Ironworker Apprenticeship Program has training for Field Ironworkers and Reinforcing Ironworkers. Training is provided in major ironworker components to Division of Apprenticeship Standards (DAS) guidelines.

For more information contact:
Program Director
3524 51st Ave
Sacramento, CA 95823
(916) 428-7420

<table>
<thead>
<tr>
<th>Requirements for Degree or Certificate</th>
<th>41-41.5 Units</th>
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<tbody>
<tr>
<td>IW 100  Orientation and History of the Trade</td>
<td>1.5</td>
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<tr>
<td>IW 110  Mixed Base</td>
<td>1.5</td>
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<tr>
<td>IW 120  Rigging</td>
<td>1.5</td>
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<tr>
<td>IW 130  Reinforcing I</td>
<td>1.5</td>
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<tr>
<td>IW 131  Reinforcing II/Post Tensioning</td>
<td>1.5</td>
</tr>
<tr>
<td>IW 140  Precast Concrete and Metal Buildings</td>
<td>1.5</td>
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<tr>
<td>IW 150  Welding I</td>
<td>1.5</td>
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<tr>
<td>IW 151  Welding II</td>
<td>1.5</td>
</tr>
<tr>
<td>IW 152  Welding III</td>
<td>1.5</td>
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<tr>
<td>IW 160  Lead Hazard</td>
<td>1.5</td>
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<tr>
<td>IW 170  Structural I</td>
<td>1.5</td>
</tr>
<tr>
<td>IW 171  Structural II</td>
<td>1.5</td>
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<tr>
<td>IW 180  Architectural/Ornamental I</td>
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<tr>
<td>IW 181  Architectural/Ornamental II (1.5)</td>
<td>1.5-2</td>
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<tr>
<td>or IW 184  Detailing I (2)</td>
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<tr>
<td>or IW 182  Architectural/Ornamental III (1.5)</td>
<td>1.5</td>
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<tr>
<td>or IW 185  Detailing II (1.5)</td>
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<tr>
<td>IW 183  The History of Ironworkers</td>
<td>2.5</td>
</tr>
<tr>
<td>And a minimum of 16 units from the following:</td>
<td></td>
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<tr>
<td>IW 298  Work Experience in Ironworkers Apprenticeship (4)</td>
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</table>

Associate Degree Requirements: The Ironworkers Apprenticeship Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

Sheet Metal Apprenticeship

This is a five-year construction trade program.

For more information contact:
Program Director
1624 Silica Avenue
Sacramento, CA 95815
(916) 922-9381

<table>
<thead>
<tr>
<th>Requirements for Degree or Certificate</th>
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<tbody>
<tr>
<td>SHME 100  First Course in Sheet Metal Apprenticeship</td>
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</tr>
<tr>
<td>SHME 101  Second Course in Sheet Metal Apprenticeship</td>
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</tr>
<tr>
<td>SHME 110  Third Course in Sheet Metal Apprenticeship</td>
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<tr>
<td>SHME 111  Fourth Course in Sheet Metal Apprenticeship</td>
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<tr>
<td>SHME 120  Fifth Course in Sheet Metal Apprenticeship</td>
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<tr>
<td>SHME 121  Sixth Course in Sheet Metal Apprenticeship</td>
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Associate Degree Requirements: The Sheet Metal Apprenticeship Associate in Arts (A.A.) Degree may be obtained by completion of the required program, plus general education requirements, plus sufficient electives to meet a 60-unit total. See ARC graduation requirements.

100  Introduction to Apprenticeship 3 Units

Hours: 54 hours LEC

This course provides an introduction to apprenticeship in the electrical, carpenter and sheetmetal trades. Topics include labor history, workers' rights, construction computations, safety, traditional and non-traditional worker originations.

ELECT 280  Electrical Workers State Certification Preparation 4.5 Units

Advisory: Three years or more of electrical trade experience.

Hours: 82 hours LEC

This is a preparatory course for Electricians' State Licensing Certification for California. This course reviews basic electrical formulas and provides an in-depth review of the National Electrical Code.