Architecture and Construction Career Cluster

he Architecture and Construction career cluster focuses on designing, planning, managing, building, and

construction manager to electrician, plumber and heating, air conditioning and refrigeration

maintaining the bui<mark>lt environment. This career cluster incluc</mark>

The Electrical program of study focuses on occupational and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. The program of study also addresses installing and repairing telecommunications cable including fiber optics.

	Principles of ArchitecturePrinciples of Construction
Level 2	Electrical Technology IEntrepreneurship I
Level 3	Electrical Technology II
Level 4	 Practicum in Entrepreneurship Practicum in Entrepreneurship + Extended Practicum Entrepreneurship Practicum in Construction Technology Practicum in Construction Technology + Extended Practicum in Construction Technology Conserve Dependent for Dependent of Study

- Career Preparation for Programs of Study
- Career Preparation for Programs of Study + Extended Career Preparation

Dual credit offerings will vary by local education agency

udents should be advised to consider these course opportunities to enrich their preparation. AP or *IB courses not listed under the Secondary Courses for High School Credit section of this framework* document do not count towards concentrator/completer status for this program of study.

Work-Based Learning Activities	 Participate in an internship with an electrical company to develop installation skills Join a pre-apprenticeship program that involves determining if electrical wiring is up to code Interview an electrician about their training and education
Expanded Learning Opportunities	Participate in SkillsUSAParticipate in trade competitions

- C-200 Certified Industry 4.0 Automation Systems Specialist I—201 Electrical
- Electrical Apprenticeship Certificate Level 1
 NCCER Electrical Level II
- (PACT), Basic Electrical
- HBI Pre-Apprenticeship Certificate Training TRIO Electrical Pre-Apprenticeship (EPP)
- NCCER Commercial Electrician
- NCCER Construction Technology

- NCCER Core
- NCCER Electrical Level I
- HBI Pre-Apprenticeship Certificate Training NCCER Electronic System Technician Level I NCCER Electronic System Technician Level II

 - Industrial Technology Maintenance (ITM) —



Apprenticeships

Associate Degrees

- Electrical and Power Transmission Installation
- Electromechanical Technology

Bachelor's Degrees

- Construction Engineering
- Electrical, Electronic, and Communications
- Engineering Electrical Engineering

Master's, Doctoral, and Professional Degrees

Construction Management

Additional Stackable IBCs/License

- Journeyman Electrician
- Master Electrician

Electricians Helpers

Median Wage: \$38,140icians He02 Tf0 Tc31

Architecture and Construction Career Cluster

Statowide Program of Study Electrical

Prerequisites: None

Prerequisites: None

Construction

Recommended Prerequisites: Principles

Recommended Prerequisites: Principles of Business, Marketing and Finance

of Architecture or Principles of

Course Information

Course	Prerequisites Corequisites	Career Clusters
Principles of Architecture* 13004210 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	1. Architecture and Construction 2. Engineering
Principles of Construction* 13004220 (1 credit)	Prerequisites: None Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	1. Architecture and Construction
Course	Prereguisites Coreguisites	Career Cluster

Level 1

Electrical Technology 13005600 (1 credit)

Entrepreneurship I* 13011101 (1 credit) 1. Architecti

onstruction

Architecture and Construction Career Cluster

Statewide Program of Study Electrical

Course Information

Course	Prerequisites Corequisites	Career Clusters
Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship* First Time Taken: 13011121 (3 credits)	Prerequisites: None Corequisites: None Recommended Prerequisites: Entrepreneurship I and Entrepreneurship II or successful completion of at least two courses in a CTE program of study Recommended Corequisites: None	
Practicum in Construction Technology* First Time Taken: 13005250 (2 credits) Second Time Taken: 13005260 (2 credits)	Prerequisites: Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	1. Architecture and Construction
Practicum in Construction Technology + Extended Practicum in Construction Technology* First Time Taken: 13005255 (3 credits) Second Time Taken: 13005265 (3 credits)	Prerequisites: Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology; or Mill and Cabinetmaking Technology Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	1. Architecture and Construction
Career Preparation for Programs of Study* First Time Taken: 12701121 (2 credits)	Prerequisites: At least one Level 2 or higher CTE course Corequisites: None Recommended Prerequisites: None Recommended Corequisites: None	1. Agriculture, Food and Natural Resources 2. Architecture and Construction 3. Arts, Audio Visual Technology and Communication 4. Business, Marketing, and Finance 5. Education and Training 6. Energy 7. Health Science 8. Hospitality and Tourism 9. Human Services 10. Information Technology 11. Law and Public Service 12. Manufacturing 13. Transportation, Distribution and Logistics