

Construction, Architecture, and Design Career Pathway
Electrical Career Major Program Outline

Course	Grade	Teacher Certification	Credits	Content
Foundational Courses				
CTE Foundations: Construction Rotation	9	Carpentry	1 CTE	Pathway and career Major Exposure Understanding shop and job safety Identification, selection, care, and use of basic hand tools. Proper use of a measuring tape to 1/16th of an inch Understanding Basic Plans, Shop Drawings and blueprints Closely follow directions and basic shop drawings Basic Electrical skills
Introduction to Construction and Design	10	Electrical	2 CTE	Electrical safety Cutting and stripping wire Splicing wire Mount and secure device boxes Device Wiring: Receptacle, GFCI, Single Pole Switch Measuring skills Electrical Career and College Research
Career Major Courses: Electrical				
Electrical I	11	Electrical	2 CTE	OSHA 10 certification Ohm's Law Power Formula Device Wiring: Split-receptacles, Three-way Switch, Four-way Switch Conduit Bending: 90°, back-to-back 90°, box offset, 30° offset, 45° offset Drawing out device circuits
Electrical II	11/12	Electrical	2 CTE	National Electrical Code Review Advanced device wiring Advanced conduit bending: Three-point saddle Advanced circuit drawings Residential service build