

High School to College and Career Pathway: Secondary

Career and Technical Education: Preparing Students for College and Career!



Area of Study: Skilled and Technical Sciences Education

Pathway: Building Trades – Electrician

Get the Facts
Compact florescent light bulbs use 75 percent less energy and last 10 times as long as regular incandescent.
In Utah, an electrician must be licensed.

Workforce Trends
As the population and economy grow, more electricians will be needed to install and maintain electrical devices and wiring in homes, offices, and other structures. Job opportunities are expected to be excellent, largely arising from the need to replace electricians who leave the occupation permanently.

**CAREER AND TECHNICAL EDUCATION
Recommended Pathway Courses**
(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)
CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL

Course #	Foundation Courses: (required)	Credit
46.0000	Construction Trades Foundation	.50
46.0302	Electrician 1	1.00
Elective Courses:		
15.1301	Technical Design 1	.50
15.1302	Architectural Design 1	.50
15.1303	Architectural Design 2	.50
46.0201	Carpentry 1	1.00
46.0304	Electrician 2	1.00
46.0501	Plumbing 1	1.00
47.0105	Basic Electronics	.50
47.0107	Advanced Electronics	1.00
47.0108	Digital Electronics	1.00
48.0701	Woodworking	.50
32.0199	Student Internship (Critical Workplace Skills)	.50

3.00 credits for completion

Electrician is:
> High skill
> High wage
> High demand
> Nontraditional for females

Sample Career Occupations
> Electrical Drafter
> Electrical Engineer
> Electrical Equipment Assembler
> Electrical Teacher
> Electrician
> Electrician Helper

This is a nontraditional occupation for women. In 2007, 1.7 percent of the people employed in this occupation were women.

Middle School		State Requirements		High School Suggested Education Plan				College and Career
7th Grade	8th Grade	Middle School	High School	9th Grade Suggested	10th Grade Suggested	11th Grade Suggested	12th Grade Suggested	Beyond High School There are a number of options for education and training beyond high school, depending on your career goals. > Certificate > Associate degree > Bachelor's degree > Professional degree > On-the-job training > Apprenticeship > Military training For more information on salary projections, labor market demand, and training options, visit www.utahfutures.org .
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts 4.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	
Math * 1.00	Math * 1.00	2.00	Math 3.00	Math * 1.00	Math * 1.00	Math * 1.00		
Science .50	Science 1.00	1.50	Science 3.00	Earth Systems 1.00	Physics 1.00 or Physics with Technology 1.00	Additional Credit 1.00		
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies 3.00	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50	
P.E. 1.00	Health .50	1.50	P.E./Health 2.00	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50			
The Arts .50	The Arts .50	1.00	Fine Arts 1.50	Fine Arts Courses 1.50				
Keyboarding .50			Computer Tech. .50	Computer Technology .50				
CTE Intro 1.00		1.00	CTE 1.00	Refer to Career and Technical Education box above.				

* Talk to your school counselor about math requirements in the new common core curriculum. Core curriculum and elective requirements may vary district to district.

Concurrent enrollment course offerings vary by school and district. Many Utah postsecondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional postsecondary Pathways for details.