

**Secondary to Postsecondary Pathway for
Electricity Commercial/Industrial/Residential**

Suggested High School Courses

9 th	Core Academic Courses*:	English I, Algebra I, Biology or Environmental Science, State History/Civics	Suggested Electives: Computer Applications
	Career Path Courses:	Computer Applications	
10 th	Core Academic Courses*:	English II, Geometry, Biology, US History, Foreign Language I	Suggested Electives: Electrical Wiring and Applications
	Career Path Courses:	Metal Fabrication Introduction to the Building Environment	
11 th	Core Academic Courses*:	English III, Algebra II/ or other, Chemistry	Suggested Electives: Principles of Technology
	Career Path Courses:	Principles of Maintenance Operations, Safety, Health in the Workplace Environment	
12 th	Core Academic Courses*:	English IV, Trigonometry or other Math, Physics or other lab based science	Suggested Electives: Principles of Technology
	Career Path Courses:	Applications in Maintenance Operations	


Secondary to Postsecondary Linkages & Contacts

Postsecondary Credit Options:

ENY 101 Introduction to Energy Technology; ENY 205 Green Building

Red Rocks Community College Department of High School Relations: For more information on postsecondary course options for high school students and for admission to RRCC, please contact, Ernie Navarette at 303-914-6320 or ernie.navarette@rrcc.edu.

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

 <p>VA Veterans, A/V Technology & Communications</p>	<p>Pathway: Renewable Energy Technology</p>	<p>Plan of Study: Solar/Thermal Installation/Energy Auditing</p>
<p>Career Goal (O*Net Code): (Click the code to access education, skills, and employment outlook information)</p> <p>Electricians 47-2111.00 Helpers-Electricians 47-3013.00 Electric Motor, Power Tool, and related Repairers 49-2092.00 Electrical and Electronics Repairers, Commercial and Industrial Equipment 49-2094.00 Control and Valve Installers and Repairers 49-9012.00 Electro-Mechanical Technicians 17-3024.00 Electrical Engineering Technicians 17-3023.03 Electrical Power-line Installers and Repairers 49-9051.00 Electrical Engineers 17-2071.00 Security and Fire Alarm Systems Installers 49-2098.00</p> <p>* - High Demand Career</p>		<p>Relevant Occupational Experience (Your Life Experiences may be worth College Credit!):</p> <p>CCCS Credit for Prior Learning Guide Contact Rich Thatcher (rich.thatcher@rcc.edu) for inquiries concerning earning college credit for life experience Electricity Commercial/Industrial/Residential</p> <p>Colorado Labor Market Information</p>

Possible Pathways to your Career!

	Programs Available	Program Length (*Based on meeting Program Entrance Requirements)	Estimated Tuition	Career Options	Salary Range
Certificate Option(s)	Electrical Installation National Electrical Code Electrical Codes and Standards Residential Construction Electrician Construction Electrician Advanced Construction Electrician Maintenance Electrician Introduction to Instrumentation and Controls Technician Advanced Instrumentation and Controls Technician Advanced Maintenance Electrician	16 12 16 24 36 20 36 12 20 32	\$1828 \$1572 \$1828 \$3111 \$4651 \$2598 \$4651 \$1572 \$2598 \$3608 \$4137 \$1572	Electrician, Maintenance Electrician, Journeyman Electrician, Inside Wireman, Control Electrician, Electrician Technician, Industrial Electrician, Journeyman Wireman, Control Technician, Electronics Technician, Industrial Electrician, Electrical Technician,	\$ - \$\$\$

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

	<p>Intro to Fire Alarm Technician Fire Alarm Code Fire Alarm and Detection Technician</p>	<p>12 16 29</p>	<p>\$1828 \$3753</p>	<p>Electrician, Electrical and Instrument Technician (E&I Tech), Instrument and Electrical Technician (I&E Tech), Electrical and Instrument Mechanic, Repair Technician, Service Technician, Alarm Technician, Service Technician, Installation Technician, Fire Alarm Technician, Security Technician, Security Installer, Electronic Security Technician, Fire and Sound Service Technician, Home Security Alarm Installer, Low Voltage Technician</p>	
<p>Associate Degree(s)</p>	<p>AAS Degrees Construction Electrician Maintenance Electrician Fire Protection Technology Power Technology Industrial Control and Instrumentation</p> <p>AS Degree: pre-engineering</p>	<p>60.5-62.5 credits (4 sem)</p>	<p>Approximately \$7800</p>	<p>Electrician, Maintenance Electrician, Journeyman Electrician, Inside Wireman, Control Electrician, Electrician Technician, Industrial Electrician, Journeyman Wireman, Control Technician, Electronics Technician, Industrial Electrician, Electrical Technician, Electrician, Electrical and Instrument Technician (E&I Tech), Instrument and Electrical Technician (I&E Tech), Electrical and Instrument Mechanic, Repair Technician, Service Technician, Alarm Technician, Service Technician, Installation Technician, Fire Alarm Technician, Security</p>	<p>\$ - \$\$\$</p>

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

				Technician, Security Installer, Electronic Security Technician, Fire and Sound Service Technician, Home Security Alarm Installer, Low Voltage Technician	
Articulation Opportunities to Advanced Degrees:					
Advanced Degree(s)	Bachelor's Degree: Management/Business emphasis (Regis) Electrical Engineering	120+ credits or 8 or more semesters	Regis University Colorado School of Mines CU Boulder CSU Metro State www.collegeincolorado.org		\$ - \$\$\$\$
	Graduate Degree: Electrical Engineering	Bachelor's Degree + 30 or more graduate level credits	www.collegeincolorado.org		\$- \$\$\$\$
	College Tuition Comparison Guide				

Extended Learning Experiences

Support Structures:

Childcare facilities, Counseling Services, Tutoring Services, Academic Advising and Career Counseling

Financial Aid:

Federal Student Loans, Pell Grant, RRCC Foundation Grant

Professional Affiliations

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

Practical Learning Experiences:

Electrical labs, Internships, Apprenticeships

Red Rocks Community College is accredited by the Higher Learning Commission and a member of the North Central Association of Colleges and Schools.

Red Rocks Community College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Please direct inquiries to : Bill Dial, Director of HR, Red Rocks Community College, 13300 W. 6th Ave., Lakewood, CO 80228

*** *This document is a guide only. It does not act as a legally binding contract*

* \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

Career & Technical Education is delivered through the Colorado Community College System www.cccs.edu