Architecture & Construction

2021-2022

Electrical Technology

Business and Industry Endorsement

Program of Study: Electrical

Grand Prairie High School

Grade	ELA	Math	Science	Social Studies	Required CTE Courses	Potential Certification Opportunities
9th	English 1	Algebra 1	Biology	World Geography or AP Human Geography	Principles of Construction (1 Credit)	• OSHA General • Cyber Safety • Career Essentials: Customer Service • Career Safe: Employability
10th	English 2	Geometry	Chemistry or OnRamps Chemistry	World History, AP World History, or Political Science	Electrical Technology I (1 Credits)	• **NCCER—Electrical, HVAC, Masonry, Painting, Pipefitting, Plumbing, Sheet Metal, Weatherization**
11th	English 3	Algebra II	Physics, AP Physics, AP Chemistry, or OnRamps Physics	U.S. History, AP US History, or OnRamps US History	Electrical Technology II (2 Credits) DCCCD North Lake Courses: • ELPT 1311 Basic Electrical Theory • ELPT 1329 Residential Wiring • ELPT 1370 Electrical Blueprint Reading • IEIR 1312 Distribution Systems	
12th	Business English, or Approved CTE 4th year English	Financial Mathematics, or Approved CTE 4th year Math	Principles of Technology, or Approved CTE 4th year Science	Government Economics	Practicum in in Electrician with Extended Lab (3 Credits) DCCCD North Lake Courses: • ELPT 1341 Motor Control • ELPT 1345 Commercial Wiring • ELPT 1325 National Electrical Code I • ELTN 1380 Cooperative Education-Electrician	• Dallas College Level 1 Certificate (Pre-Apprenticeship Certificate in Electrical Construction Technology) • **Electrical Apprenticeship Certification Level 1 (working towards Journeyman)** • Electrician License

CORE CONTENT

Student Organizations	Additional Required Electives
SkillsUSA	Fine Arts Health Foreign Language Physical Education

Dual Credit Offerings			Additional Recommended Electives
English 3	English 4	AP English Language	Accounting 1 (1 Credit)
AP English Literature	AP Spanish Language	AP Spanish Literature	Accounting 2 (1 Credit)
Calculus	Pre-Calculus	College Algebra	Principles of Business, Marketing & Finance (1 Credit)
Statistics	Biology	Physics	Business Law (1 Credit)
Environmental Science	Earth and Space Science	W. History	
U.S. History	Government	Economics	
European History	Psychology	Art	

Sample Career Opportunities	High School	On the Job Training	Certificate	Associates Degree	Bachelor's Degree	Advanced College Degree	Average Annual Salary	Possible Majors for this Pathway
Electrician	X	X	X	X			$56,180—$96,580	• Basic Electricity • Carpentry • Building and Property Maintenance • HVAC • Piping and Plumbing • Construction Technology • Construction Management • Civil Engineering • Industrial Design • Industrial Engineering • Industrial Technology
Carpenter	X	X	X	X			$48,330—$84,690	
HVAC Refrigeration Mechanics and Technicians	X	X	X	X			$48,730—$77,920	
Plumber, Pipefitter and Steamfitter	X	X	X	X			$55,160—$97,170	
Boilermaker	X	X	X	X			$63,100—$94,440	
Civil Engineer		X	X	X	X		$87,060—$144,560	
Civil Engineering Technician		X	X	X			$53,410—$80,650	
Industrial Designer		X	X	X	X		$68,890—$114,950	
Construction Manager		X	X	X	X		$95,260—$164,790	
Construction Equipment Operator	X	X	X	X			$48,160—$84,650	
Construction and Building Inspector	X	X	X	X			$60,710—$98,820	

The Grand Prairie Independent School District does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups.