

## Model Program of Studies – Electrical Construction and Maintenance

	Grade	English	Mathematics	Science	Social Studies	Career Courses	Other courses
High School required and recommended courses	During Grade 8, provide academic/career exploration and advising for student & parents – include introduction to course sequences Encourage enrollment in Construction Cluster – Tech Start						
	9	English 9	Algebra I	Earth Science	World Studies I		Health
	10	English 10	Geometry	Biology/Lab	World Studies II		Physical Education
	Prior to grade 11, assess college readiness; provide remediation and enhancements as appropriate; begin college selection process						
	11	English 11	Algebra II	Chemistry/Lab	US History	Electricity	Fine Art
	At age 17, assess for all immunizations; remedy deficiencies Complete college selection process; After January, complete federal financial aid (FAFSA)						
	12	English 12		Physics/Lab		Electricity	
	Administer college placement exams						
College required and recommended courses	Year 1 Sem 1 18 cr.	ENG 111 English Composition	MAT 117 Electrical Mathematics I		Social Science Elective	ELE 114 Basic Residential Wiring	SAE 121 Industrial Safety
						ELS 112 Basic Electricity/Electronics I	
						ELS 114 Basic Electricity/Electronics I Lab	
	Year 1 Sem 2 16 cr.		MAT 127 Electrical Mathematics II			ELS 122 Basic Electricity/Electronics II	DIB 115 Digital Basics
						ELS 125 Motors & Controls	DRR 117 Blueprint Reading for Construction Trds.
	Year 2 Sem 1 17 cr.			PHY 150 Physics	Humanities Elective	ELC 111 National Electrical Code I	PHE 124 Ergonomics/ Occupational Wellness
						ELE 210 Electrical Construction & Maintenance I	
						ELE 212 EC&M I Lab	
	Year 2 Sem 2 18 cr.	COM 221 Technical Communications				ELC 112 National Elect. Code II	Elective
						ELE 222 Electrical Construction & Maintenance II	EET 221 Control Systems and PLCs
						ELE 223 EC&M II Lab	

This is a model; individual students should review required and recommended courses and modify as appropriate.

Required high school courses

Recommended career-related courses

Other recommended high school courses

Recommended assessments, advising, and additional preparation

Career-related transitional courses (articulation, dual, or early college)

Required college courses