

## 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						
	9	(1) English 9	(1) Algebra I	(1) Earth/Physical Science	(1) Geography & Economics		(1) Fine Art
	10	(1) English 10	(1) Geometry	(1) Biology w/ lab	(1) World History		(1) Health & PE
	Prior to grade 11, assess college readiness; provide remediation and enhancements as appropriate; begin college selection process						
	11	(1) Communication Skills	(1) Algebra II	(1) Chemistry w/ lab	(1) US History	(2) Electrical/Connectivity	(1) Fine Art
	At age 17, assess for all immunizations; remedy deficiencies Complete college selection process; After January, complete federal financial aid (FAFSA)						
	12	(1) English Elective		(3) Physics/Lab		(5) Electrical/Connectivity	
	Administer college placement exams						
College required and recommended courses	Year 1 Sem 1 18 cr.	(6) ENG 111 English Composition	(6) MAT 117 Electrical Mathematics I		(6) Social Science Elective	(5) ELE 114 Basic Residential Wiring	(5) SAE 121 Industrial Safety
						(6) ELS 112 Basic Electricity/Electronics I	
						(6) ELS 114 Basic Electricity/Electronics I Lab	
	Year 1 Sem 2 16 cr.		(6) MAT 127 Electrical Mathematics II			(6) ELS 122 Basic Electricity/Electronics II	(6) DIB 115 Digital Basics
						(6) ELS 125 Motors & Controls	(6) DRR 117 Blueprint Reading for Construction Trds.
	Year 2 Sem 1 17 cr.			(6) PHY 150 Physics	(6) Humanities Elective	(6) ELC 111 National Electrical Code I	(6) PHE 124 Ergonomics/ Occupational Wellness
						(6) ELE 210 Electrical Construction & Maintenance I	
						(6) ELE 212 EC&M I Lab	
	Year 2 Sem 2 18 cr.	(6) COM 221 Technical Communications				(6) ELC 112 National Elect. Code II	(6) Elective
						(6) ELE 222 Electrical Construction & Maintenance II	(6) EET 221 Control Systems and PLCs
						(6) ELE 223 EC&M II Lab	
This is a model; individual students should review required and recommended courses and modify as appropriate.			(1) Required high school courses		(2) Recommended career-related courses		
			(3) Other recommended high school courses		(4) Recommended assessments, advising, and preparation		
			(5) Career-related transitional courses (articulation, dual, or early college)				
			(6) Required college courses				