



# Certificate/AS - Electrical Technology 18-19

## Recommended Program Sequence

All courses with a + sign indicate a pre-requisite or co-requisite

Term 1 (Semester: Maximum 19 units, 15 units recommended)	Units	Term 5 (Semester: Maximum 19 units, 15 units recommended)	Units
ELEC 110, Fund. of Electricity	4	ELEC 150+, Electrical Maintenance	4
ELEC 115+, Electrical Codes and Ordinances	4	General Education Area D2	3
ELEC 120+, Residential Wiring	4	General Education Area A (Science)	3
General Education Area E (Additional Breadth)	3	General Education C (Humanities)	3
		General Elective	2
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>
Term 2: (Intersession(6/3)-Summer (9/6) Max./Recommended units)		Term 6: (Intersession(6/3)-Summer (9/6) Max./Recommended units)	
Term 3 (Semester: Maximum 19 units, 15 units recommended)	Units	Term 7 (Semester: Maximum 19 units, 15 units recommended)	Units
ELEC 130+, Alternating Current Theory	3	ELEC 220+, Advanced Motor Control	4
ELEC 140+, Commercial/Industrial Wiring and Cabling	4	General Education Area B (Social Science)	3
ELEC 160+, Fundamentals of Motor Control	4	General Education Area F (Diversity Studies)	3
General Education Area D1 (English 101+)	3	General Elective	3
ELEC 250, Electricians Journeyman Review (Summer ONLY)	3		
<b>Total</b>	<b>17</b>	<b>Total</b>	<b>13</b>
Term 4: (Intersession(6/3)-Summer (9/6) Max./Recommended units)		<b>Transfer or Graduate</b>	

Take Summer or Intersession classes if needed to complete the program in a timely manner.

The state requires all students to have a Comprehensive Educational Plan. Make a counseling appointment as soon as enrollment is established on any term. Come by the Counseling Center or call.

Certificate/Major Required Courses:	Units	List of Courses
ELEC 110, Fund. of Electricity	4	HIST 101, 102, 104, 105, 107, 108, 110, 111, 113, 114, 116, 118, 119
ELEC 115+, Electrical Codes and Ordinances	4	POLS 101, 103, 200, 201+, 202+, 203+
ELEC 120+, Residential Wiring	4	PSY 101, 201+, 212+, 230+, 232, 233+, 234+, 235+, 236+
ELEC 130+, Alternating Current Theory	3	SOC 101, 105, 110, 111, 112, 115, 116+, 120
ELEC 140+, Commercial/Industrial Wiring and Cabling	4	<b>Area C Humanities: (min. 3 units)</b>
ELEC 150+, Electrical Maintenance	4	ART 100, 101, 102, 103, 104, 106, 110, 113, 120, 132, 135, 136+, 137+, 140,
ELEC 160+, Fundamentals of Motor Control	4	145, 150, 163, 170+, 210+, 213+
ELEC 220+, Advanced Motor Control	4	CHIN 101, 102+, 201+, 202+
ELEC 250, Electricians Journeyman Review	3	COMM 103, 112, 114, 214+
<b>Units Required for the Certificate/Major:</b>	<b>34</b>	DA 101
<i>other requirements for degree</i>		DFST 101, 102+, 105, 106, 201+, 202+
General Education	21-27	ENGL 102, 111+, 112+, 113+, 221+, 222+, 225+, 227+, 230+, 231+,
Proficiency (See Proficiency Requirements)	*	235+, 236+, 240+, 242+, 246+, 250+, 253+, 256+, 257+, 259+, 265+, 279+
Electives	0-5	FREN 101, 102+, 201+, 202+, 203+
<b>Minimum Units Required for AS Degree</b>	<b>60</b>	FTV 101, 103, 107, 108, 201, 203, 241, 251, 261
<b>Other Requirements:</b>		GER 101, 102+, 201+, 202+
• Minimum grade of "C" required on each course		HIST 115
• Maximum of 12 pass/no-pass units accepted for the Degree and 6 units for a Certificate		ID 150, 201
• Refer to catalog or online website for course listings and descriptions		LATN 101, 102+, 201+
<b>AS General Education: At least 3 units from each of the following areas below: A, B, C, D1, D2, E, and F. Minimum Total GE Units Required</b>		MUS 101, 105, 111, 131, 132+, 151+, 153+, 185+, 231+, 232+, 251A+,
<b>Area A Natural Sciences: (min. 3 units)</b>		251B+, 253A+, 253B+
ANTH 101, 101L		MUSC 102, 103, 107, 108
ASTR 101+, 101L+		PHIL 105, 106, 108, 109
BIOL 100, 101+, 101L+, 102, 103, 104, 110+, 120+, 201+, 202+, 204+,		PHOT 107
CHEM 101+, 102+, 110+		PHTC 101+, 150+, 201+
ELTE 101		SPAN 101, 110SS, 102+, 201+, 202+, 210SS+, 220SS+
ERSC 101+		THA 101, 102, 103, 110, 115A, 115B+, 116A+, 116B+, 117A+, 117B+,
GEOG 101+, 101L+, 102, 102L+		118A+, 118B+, 121A, 121B, 130, 133, 225+, 239
GEOL 101+, 101L+, 102+, 102L+		<b>Area D Language &amp; Rationality: (min. 3 units from (1) and 3 units from (2))</b>
PHYS 101, 102+, 110+, 120+, 211+		1. <i>Academic Composition:</i> Courses fulfilling the written composition requirement shall be designed to include both expository and argumentative writing.
PSCI 101		ENGL 101+
<b>Area B Social &amp; Behavioral Sciences: (min. 3 units)</b>		2. <i>Communication and Analytical Thinking</i>
AJ 201, 204, 206		BUS 113+
ANTH 102, 103, 112, 140		CA 103
BUS 101		CIS 101, 111, 141, 157, 161
CFE 102		COMM 101, 103, 107, 109, 112, 114, 115, 217+, 219+
COMM 217+		ENGL 102+, 103+
DFST 105		GEOG 201, 205
ECON 100, 101+, 102+, 110		MATH 102+, 110+, 115+, 116+, 120+, 124+, 128+, 135+, 140+, 148+
GEOG 105, 106, 110		150+, 160+, 220+, 230+, 250+

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PHIL 110, 106, 110, 201+  
 NF 100, 102, 103, 110, 150  
 PSY 212+  
 SOC 111, 116+

### Area E - Additional Breadth: (min. 3 units)

From areas A\*\*, B\*\*, C\*\*, D2, \*\* or  
 CFE 102                      NF 100, 102, 103, 110, 150  
 COMM 103, 107, 219+        PSY 212  
 DFST 105                      SOC 111, 116  
 HD 100, 101, 102, 103, 105  
 HE 101, 120, 201  
 ID 100, 120  
 KINT 100  
 LIB 107, 110  
 MUSC 108  
 Any DA activity course(s) from DA102-205, except DA 107A-C, 108, 109, and 111.  
 Any Kinesiology Fitness (KINF) activity course, Intercollegiate Athletics (IATH) activity course, or up to 4 units for military experience.

**\*\* Courses must be taken from a discipline not previously selected.**

### Area F Diversity Studies: (min. 3 units)

ANTH 102, 112	FTV 201, 203
BUS 212	HE 201+
CFE 116+	HIST 110, 111, 113
COMM 114, 217+, 219+	MUSC 107, 108
DFST 105, 106	POLS 202+
ECON 110	SOC 105, 110, 116+
ENGL 250+, 253+, 256+, 257+, 259+	THA 239

### Proficiency Requirements

Proficiency requirements exist for the areas of Reading, Writing and Math. Students must demonstrate competency in each of these areas in order to be eligible for the associate degree.

#### A. READING

Complete ENGL 101 with a "C" or better or completion of READ 099 with a minimum grade of "P" (Pass), or completion of an Associate Degree or higher from a regionally accredited institution of higher education.

#### B. WRITING

Completion of ENGL 101 with a minimum grade of "C." NOTE: ENGL 101 may be taken with the Pass/No Pass option; however, students are cautioned that other colleges and universities may not accept ENGL 101 courses taken on a Pass/No Pass basis, especially for satisfaction of general education and major requirements. Students planning to transfer should check college catalogs for applicable policies.

#### C. MATHEMATICS

Completion of MATH 102 or higher or CIS 121 with a satisfactory grade or placement by AVC assessment into a math course higher than MATH 102.

**\*Fulfilling proficiencies** will not require any extra units if the competencies are demonstrated by including the required courses in the general education, or major requirements, or by satisfying the reading proficiency through AVC's policy.

**Electives:** The remaining number of units (up to a minimum of 60) are considered electives. Any course that has already been counted toward (1) the general education requirements, or (2) the major, cannot be used as an elective. Any course with a designation of "AVC" at the end of a course description can be used as an  
**Grade Point Average Requirement:** An overall grade point average of 2.0 ("C" average) is required.

**Double Counting:** While a course might satisfy more than one general education requirement, it may not be counted more than once for these purposes. A course may be used to satisfy both a general education requirement and a major or area of emphasis requirement.

**Residency:** Minimum of 12 units completed at AVC with a minimum of 9 of those units completed from the certificate/major. (credit earned by examination will not be included in these 12 units) Title 5, Section 54000:<http://ccr.oal.ca.gov>  
**Requirements for Two or More Associate Degrees:** To be eligible for multiple associate degrees, a student must have completed all of the graduation requirements for each degree.

**Transfer:** Students planning to continue studies at a four-year college or university after AVC should visit the Transfer Resource Center or the Counseling Center and consult with a counselor as soon as possible to develop a plan of studies. Additional preparation for the major information on official transfer articulation agreements from AVC to many CSU/UC campuses can be found at the following Web site: [www.assist.org](http://www.assist.org)

The "Catalog Rights Policy" sets forth the criteria used for determining the degree requirements under which students may graduate. Please refer to the AVC Catalog for a detailed description or consult with a counselor.

**Advisory:** A condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.  
**Prerequisite:** A condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program. Prerequisites are enforced and a student will be blocked from enrolling or involuntarily dropped after enrolling if the student does not meet the stated prerequisite. A student must complete a course prerequisite with a satisfactory grade of A, B, C or P (pass).  
**Corequisite:** A condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in another course. Corequisites are enforced and a student will be blocked from enrolling if the student does not meet the stated co-requisite