

Communication Engineering Technology A.S. Degree

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Program Description

To graduate with a specialization in Communication Engineering Technology, students must complete all requirements for the certificate with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units).



About This Pathway

The pathway below represents an efficient and effective course taking sequence for this program. Individual circumstances might require some changes to this pathway. It is always recommended that you **meet with an academic counselor** to develop a personalized educational plan.

Division

Career Technical Education

Department

Electricity/Electronics

Career and Academic Pathway (CAP)

Manufacturing, Industry, Transportation

Program Learning Outcomes

1. Be prepared to transfer to an accredited, 4-year college or university with junior class standing in electronics technology or a related major.
2. Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results.
3. Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex communications systems.
4. Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures.
5. Sit for industry/Federal-style examinations on the theory and procedures of electronic communications technology.

Program Map



General Education



Available Online



Program Requirement



Program Prerequisites

Term 1

15 units

Complete one course in each of the following areas:



**ELECTR 110 -
Direct Current
Circuit Analysis**

3 units



**ELECTR 111 -
Direct Current
Circuit
Laboratory**

1 unit



**TECALC 087 -
Technical
Calculations**

4 units



**Area 1A - English
Composition**

4 units



**Area 5 - Lifelong
Learning and
Self-
Development**

3 units

Term 2

13-18 units

Complete one course in each of the following areas:



**ELECTR 115 -
Alternating
Current Circuit
Analysis**

3 units



**ELECTR 116 -
Alternating
Current Circuit
Laboratory**

1 unit



**ELECTR 155 -
Electronic
Drawing and
Assembly**

3 units



**Area 2 -
Mathematical
Concepts or
Quantitative
Reasoning**

3-5 units



**Area 4 - Natural
Science**

3-6 units

Term 3

14-15 units

Complete one course in each of the following areas:



**ELECTR 230 -
Semiconductor
Devices**

3 units



**ELECTR 235 -
Solid State
Circuit Analysis**

4 units



**ELECTR 265 -
Digital Logic
Design**

4 units



**Area 1B - Oral
Communication
or Critical
Thinking**

3-4 units

Term 4

14-16 units

Complete one course in each of the following areas:



**ELECTR 266 -
Microprocessor
Technology with
Assembly
Language**

4 units



**ELECTR 270 -
Linear
Integrated
Circuit Analysis**

4 units



**ELECTR 220C -
FCC Rules and
Regulations**

3 units



**Area 3 - Arts &
Humanities**

3-5 units

Term 5

17-19 units

Complete one course in each of the following areas:


**ELECTR 250C -
Radio
Transmitters,
Receivers and
Antennas**

4 units


**ELECTR 255C -
Telephone and
Data Networking**

4 units


**Area 3B - Social
and Behavioral
Science**

3 units


**Area 3 - Arts &
Humanities and
Social &
Behavioral
Science (one
additional
course from 3A
or 3B)**

3-5 units


**Area 6 - Ethnic
Studies**

3 units