

# COMMUNICATION ENGINEERING TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

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This certificate is designed to provide students with the fundamentals of electronics technology as it applies to communication engineering. The curriculum prepares students for entry-level positions in electronics communication maintenance, installation, field service, networking, and apprenticeship in the field of communication engineering technology.

Code	Title	Units
<b>Required Courses:</b>		
TECALC 087	Technical Calculations	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 155	Electronic Drawing and Assembly	3
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
ELECTR 266	Microprocessor Technology With Assembly Language	4
ELECTR 270	Linear Integrated Circuit Analysis	4
ELECTR 220C	F.C.C. Rules and Regulations	3
ELECTR 250C	Radio Transmitters, Receivers and Antennas	4
ELECTR 255C	Telephone and Data Networking	4
<b>Total Units</b>		<b>45</b>

*This is a Gainful Employment Program*

## Program Learning Outcomes

At the completion of this program, students will be able to:

- Be prepared to transfer to an accredited, 4-year college or university with junior class standing in electronics technology or a related major.
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results.
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex communications systems.
- 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.
- Sit for industry/Federal-style examinations on the theory and procedures of electronic communications technology.