COMPUTER ENGINEERING TECHNOLOGY CERTIFICATE OF ACHIEVEMENT

This certificate is designed to provide students with the fundamentals of electronics technology as it applies to computer engineering. The curriculum prepares students for entry-level positions in computer maintenance, installation, field service, networking, and apprenticeship in the field of computer engineering technology. Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.

Code	Title	Units
Required Courses		
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 280C	Computer Operation and Maintenance	4
TECALC 087	Technical Calculations	4
Total Units		**38**

This is a Gainful Employment Program

Program Learning Outcomes

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

- 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 digital computer circuits
- 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 computer technology