

# COMPUTER ENGINEERING TECHNOLOGY ASSOCIATE OF SCIENCE DEGREE

To graduate with a specialization in Computer 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).

Code	Title	Units
<b>Required Courses:</b>		
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
<b>Total Units</b>		<b>38</b>

To earn an SBVC Associate Degree students must complete one of the following general education patterns:

SBVC GE requirements (<https://www.valleycollege.edu/student-services/counseling/graduation-requirements/>)

CSU GE requirements (<https://www.valleycollege.edu/student-services/counseling/csuge/>)

IGETC requirements (<https://www.valleycollege.edu/student-services/counseling/igetc/>)

## Program Learning Outcomes

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

- Be prepared to transfer a core curriculum 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 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.