SCC’s Electronic Systems program teaches students troubleshooting, hardware configuration, equipment installation, and programming in a hands-on environment. Students will spend approximately 50 percent of their time in the lab and the other 50 percent in the classroom learning the theory needed to excel in the field. Students enter a wide variety of ever-changing career paths, ranging for working on a bench as a technician repairing equipment being manufactured and/or repairing existing equipment to traveling to different locations installing and repairing equipment.

Why SCC?
SCC’s program offers a schedule that fits your life. Work during the day? No problem. Earn your degree by taking our evening courses. Work at night? No worries. Our daytime program will enable you to get through the program in a timely manner.

"Electronic Contracting Company is a strong advocate of Southeast Community College’s Electronics programs. SCC has done a tremendous job in training and preparing its students for the workforce, and for decades our company has hired SCC’s students for this reason. Many of our SCC hires are working in engineering, systems programming, sales, and upper management, including our president.

SCC has kept up with the fast-paced changes in our industry, demonstrated in the newly renovated electronics lab. As an employer, I see this as one of the many impressive attributes of the Electronics program, and I appreciate that SCC deeply invests in the quality of its students’ education.”

-Matt Thorne, Vice President of Technical Operations, Electronic Contracting Company, Lincoln, Neb.
General Education Requirements
See the General Education pages for a complete list.

- GELO #1: Oral Communications  3.0
- GELO #2: Written Communications  3.0

Complete three additional classes from the four areas below; no two classes from the same area;
- GELO #3: Critical Thinking & Problem Solving
- GELO #4: Global Awareness and Citizenship
- GELO #5: Analytical, Quantitative, and Scientific Reasoning
- GELO #6: Career and Life Skills

Total 15.0 credit hours

Core Electronic Systems Technology Courses
The core Electronic Systems Technology courses provide a base line of common technical knowledge and skills for students to succeed in a wide variety of career fields.

Course #  Course Title  Credit hrs.
ELEC1130  Fundamentals of Electronic Circuits  6.0
ELEC1240  Fundamentals of Electronic Circuits II  6.0
ELEC1245  Digital Systems  5.0
ELEC2150  Fundamentals of Electronic Circuits III  6.0
ELEC2550  Fundamentals of Electronic Circuits IV  6.0
ELEC2753  PC Operating Systems & Hardware  3.5
ELEC2760  Introduction of Networks  3.0
ELEC2863  Programmable Logic Controllers in Automation Systems  3.0

38.5 hours

Electronic Systems Technician Focus
Required Class:
ELEC2751  A/V Distribution and Surveillance  3.5

ELEC Electives Select any of the following for a total of 6 credit hours:
Course #  Course Title  Credit hrs.
ELEC2755  Structured Programming for Electronic Technicians  3.0
ELEC2761  Routing & Switching Essentials  3.0
ELEC2853  Fluid Power & Robotics  2.5
ELEC2864  Advanced Programming Logic Controllers in Automation Systems  2.5
ELEC2865  Advanced Networking  4.5
ELEC2883  Robotics and Vision Systems  2.5
ELEC2900  CCNA Security  3.0
ELEC2999  Special Projects  1-3

6.0 Total Required

Cisco Networking/Security Focus
Course #  Course Title  Credit hrs.
ELEC2761  Routing & Switching Essentials  3.0
ELEC2865  Advanced Networks  4.5
ELEC2900  CCNA Security  3.0

10.5 hours

Robotics and Automation Focus
Course #  Course Title  Credit hrs.
ELEC2761  Routing & Switching Essentials  3.0
ELEC2853  Fluid Power & Robotics  2.5
ELEC2864  Advanced Programmable Logic Controllers in Automation Systems  2.5
ELEC2883  Robotics and Vision Systems  2.5

10.5 hours

Military Transfer (Advanced Placement) in the Electronic Systems Technology program
*Electronic Systems Technology offers military students with an electronics background and training, to apply their training and reduce the courses necessary through credit by waiver to complete the degree. Based upon the Military training transcript, you and the program director will select courses that will enhance technical expertise up to 2/3 of the technical courses can be transferred in for a technician focus or Computer, automation and networking Focus.

- Cisco Networking/Security Focus
  Up to 41 credit hours transferred in and 22.5 required
- Robotics and Automation Focus
  Up to 40 credit hours transferred in and 21 required
- Electronic Systems Technician Focus
  Up to 38 credit hours transferred in and 21 required

15 credit hours required for general education

While certifications are not required, you will be encouraged and given opportunities and assistance to obtain certification in the following while taking classes:
- iNARTE Certification (without testing)
- International Society of Certified Electronics Technicians (ISCET)
- CISCO Certified Network Associate (CCNA)
- NCATT Aircraft Electronics Technician
- Network +
- CompTIA A+

Note: SCC staff is working on Solder standards and the certification of all students.