



Associate of Applied Science Degree

Credit Hours Required for Graduation:

Cisco Networking/Security Focus	64
Robotics and Automation Focus	64
Electronic Systems Technician Focus	63
*Military Transfer (Advanced Placement)	



For more information contact:

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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.



Top Career Options

- Apprentice Install Electrician
- Avionics Bench Technician
- Electrical Test Technician
- Five DX Operator
- Service Engineer



Graduate Earnings

Recent graduates report an average starting wage of \$17.15 per hour.



2019-2020 Tuition/Fee Rate Per Credit Hour	
Nebraska Resident	\$108
Out-of-state tuition/fee rate	\$129
Estimated Expenses	
Tuition/Fees	\$ 6912
Books	2117
Special Fees	1290
Tools/Supplies (part of fees)	
Total:	\$10,319

General Education Requirements

See the General Education pages for a complete list.

GEL0 #1: Oral Communications	3.0
GEL0 #2: Written Communications	3.0

Complete three additional classes from the four areas below; no two classes from the same area; 9.0

GEL0 #3: Critical Thinking & Problem Solving
GEL0 #4: Global Awareness and Citizenship
GEL0 #5: Analytical, Quantitative, and Scientific Reasoning
GEL0 #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
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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.

