



## Associate of Applied Science Degree Certificate

### Credit Hours Required for Graduation:

#### Associate of Applied Science Degree:

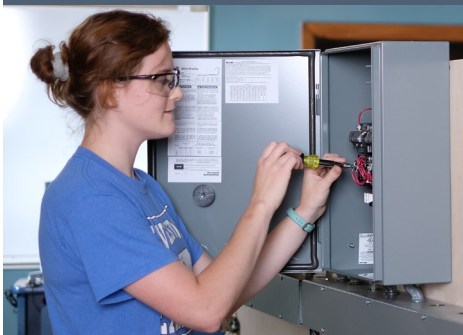
Electrical Systems Focus .....	62.0
Electromechanical Systems Focus .....	61.5
Automation Systems Focus.....	64.5

#### Certificate:

Electrical Construction .....	23.0
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Electrician Construction - IBEW Option.....	75.0
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Scan this code to access the course listing



### For more information contact:

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or the College Admissions Office  
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Electricians install, connect, test, and maintain electrical systems for residential, commercial and industrial systems, as well as maintain components for climate control, security and communications. Electromechanical technicians visualize, design, create, and repair the many devices that are used throughout the industrial-manufacturing world by combining their electrical and mechanical background. Train at SCC to become a skilled electrical and electromechanical technician, where our graduates are in high demand. You will have flexible career options and you can be proud to say you're an SCC graduate (our reputation among employers is outstanding).

## SCC is the Right Choice

- Most projects you'll work on are based on real-world applications seen in industry today, not simulated environments
- Gain skills in welding, hydraulics and automated machining potential
- Robotics and automated control systems are a large part of industry, and you'll receive many hours of training in these areas
- A large number of careers our graduates go into are in the high-wage, high-demand, high-skill area
- Program is designed for 50 percent classroom and 50 percent lab experience

### SCC's program offers a variety of focus options to help you meet your goals!

#### ELECTRICAL SYSTEMS FOCUS

Types of Jobs: residential, commercial and industrial construction environments, designing, installing, maintaining and upgrading all types of electrical power and control circuits throughout industry.

#### ELECTROMECHANICAL SYSTEMS FOCUS

Types of Jobs: designing, installing, maintaining and upgrading industrial mechanical, electrical and automation systems. Their work may involve skills in the areas of machining, welding, fabrication, wiring and installation of new and existing production equipment along with hydraulic and pneumatic systems.

#### AUTOMATION SYSTEMS FOCUS

Types of Jobs: industrial manufacturing settings that allow a student to work with all types of automation. This would include, but is not limited to programmable logic controllers, robotics, variable frequency drives, vision systems and other industrial devices.

#### Electrician Construction - IBEW Option

For members of the International Brotherhood of Electrical Workers (IBEW - Local 265). Classes are provided with the cooperation of representatives of SCC and Nebraska representatives of the IBEW-Local 265. Applicants must meet the entrance requirements to be accepted into the program. The curriculum is normally delivered over a five-year period. Classes are held at the IBEW Training Center, 6200 S. 14th St. in Lincoln.



## Top Career Options

- Apprentice Electrician
- Automation Engineering Technician
- Electromechanical Technician
- Robotics Technician
- Substation Technician

## Graduate Earnings

Recent graduates report an average starting salary of \$47,840 per year.

### 2020-2021 Resident Estimated Expenses

Tuition/Fee Rate Per Credit Hour	\$111
Resident Tuition/Fees	\$7,159.50
Books	\$1,375
Supplies	\$200
Tools	\$400
<b>Total:</b>	<b>\$9,134.50</b>
Non-Resident Tuition/Fee Rate Per Credit Hour	\$132
Non-Resident Tuition/Fees	\$8,514

# Electrical & Electromechanical - Basic Tool & Supply List

## TOOLS FOR ELECTRICAL/ELECTROMECHANICAL/AUTOMATION

### 1ST SEMESTER

- Safety glasses
- (2) Large binders
- 10 square graph paper pad
- El-506 Calculator
- USB drive 16GB
- Oscilloscope paper pad

### 2ND SEMESTER

#### All tools from the first semester plus the following:

- 3mm x 100mm screwdriver
- Wire stripper
- Multimeter (see program director)
- Phillips #2 screwdriver with 4" shank
- Standard screwdriver 3/16" x 6" shank
- 6" needle-nose pliers with plastic dipped handles
- Tool box or tool pouch with belt (optional for automation students)

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### 3RD SEMESTER ELECTRICAL

#### All tools from first two semesters plus the following:

- Aluminum torpedo level with magnetized strip on bottom
- Steel locking tape (3/4" x 25' minimum)
- Electricians pocket knife or utility knife
- Hammer (heavy duty curved claw)
- 10" adjustable jaw wrench (with plastic dip handles)
- 10" water pump pliers (with plastic dip handles)
- 6 3/4" diagonal cutters (with plastic dip handles)
- 9 1/4" high leverage lineman plier (with plastic dip handles)
- Standard screwdriver 5/16" blade with 6" shank
- 1/2" / 3/4" conduit reamer
- Hard sole shoes
- Hard Hat
- Architecture Ruler

### 4TH SEMESTER ELECTRICAL

#### All tools from first three semesters

### 3RD SEMESTER ELECTROMECHANICAL

#### All tools from first two semesters plus the following:

- Head gear (skull cap)
- Green Lens
- Arc welding helmet
- Welding gloves
- Pliers
- Chipping hammer/wire brush
- Wire cutters
- (2) F pencils
- (2) HB pencils

### 4TH SEMESTER ELECTROMECHANICAL

#### All tools from first three semesters plus:

- Portable tool chest
- 1/2" or 3/8" socket set (1/4" through 3/4")
- 10" ratchet for the above socket set
- 5" extension for the above socket set
- 10" and 8" adjustable wrench
- 7 piece combination wrench set-standard
- Standard tip screwdriver- 5/16" with 6" shank
- Phillips screwdriver- size #1
- Locking tape (1/2" x 12' minimum)
- Hex key set (5/64" through 3/8")
- 6 3/4" slip joint pliers
- 7 3/4" curved diagonal cut pliers
- 10" locking pliers (straight or curved jaw)
- 1 1/2 lb standard deadblow hammer
- 16 oz ball peen hammer
- 5 piece punch set (1/16" through 5/32")
- Utility knife

### 3RD SEMESTER AUTOMATION

#### All tools from first two semesters plus the following:

- Circuit breadboard
- Standard Allen key set (1/16" through 1/4")

### 4TH SEMESTER AUTOMATION

#### All tools from first three semesters