

# ELECTROMECHANICAL STUDIES



## BLONG TECHNOLOGY CENTER

### Electromechanical Systems Instructor Wayne Carter

(563) 441-4384  
FAX (563) 441-4374  
wcarter@eicc.edu

### Blong Technology Center

8500 Hillandale Road  
Davenport, IA 52804  
(exit 292 off I-80)  
(563) 441-4360  
toll-free  
1-888-336-3907

[www.eicc.edu/  
manufacturingcareers](http://www.eicc.edu/manufacturingcareers)

[www.eicc.edu](http://www.eicc.edu)  
**1888-336-3907**  
Toll-free

#### Our Web Links:

[www.eicc.edu/apply](http://www.eicc.edu/apply)  
[www.eicc.edu/visit](http://www.eicc.edu/visit)  
[www.eicc.edu/programs](http://www.eicc.edu/programs)  
[www.eicc.edu/daretocompare](http://www.eicc.edu/daretocompare)  
[www.eicc.edu/financialaid](http://www.eicc.edu/financialaid)  
[www.eicc.edu/catalog](http://www.eicc.edu/catalog)

*Tuition and fees subject to change  
by the EICCD Board of Trustees.*

## Program Description

The Electromechanical Systems program at the Blong Technology Center (BTC) offers several options for career training: the Applied Electricity certificate; the Electrical Systems certificate; the Hydraulics/Pneumatics Systems certificate; and the two-year degree program. Hands-on training is provided in the modern labs of the new MTC, where students can work at their own pace, but instructors are available for guidance. Courses are offered in an eight-week format with flexible schedule of attendance during the day or evening.

## Award Options

Associate in Applied Science degree - Electromechanical Systems

Certificate - Applied Electricity

Certificate - Electrical Systems

Certificate - Hydraulics/Pneumatics Systems

## Job Outlook

Overall employment of electromechanical technicians is expected to grow slower than the average for all occupations, but projected growth and job prospects vary by specialty. Opportunities will be best for individuals with an associate degree or other postsecondary training in electromechanical studies. Median annual wages of wage and salary electrical and electronic engineering technicians are \$53,240. The middle 50 percent earned between \$41,550 and \$64,120. The lowest 10 percent earned less than \$32,490, and the highest 10 percent earned more than \$78,560.

For details, please visit this link <http://www.bls.gov/oco/>



**FUEL**  
your mind.

CLINTON ♦ MUSCATINE ♦ SCOTT  
COMMUNITY COLLEGES  
EASTERN IOWA COMMUNITY COLLEGE DISTRICT

Since the colleges of EICCD are continually reviewing programs, information in the course catalog may change. Please visit [www.eicc.edu/catalog](http://www.eicc.edu/catalog) for any program updates which have occurred since the most recent edition of the catalog.

# ELECTROMECHANICAL STUDIES

## Clinton Community College

1000 Lincoln Boulevard,  
Clinton, IA 52732  
(563) 244-7001  
1-800-638-0559  
www.facebook.com/  
clintoncommunitycollegeia

### Admissions Officer

Heather Mohler  
hmohler@eicc.edu  
(563) 244-7007  
FAX (563) 244-7107

## Muscatine Community College

152 Colorado Street,  
Muscatine, IA 52761  
(563) 288-6001  
1-800-351-4669  
www.facebook.com/  
muscatinecommunitycollegeia

### Admissions Officer

Katie Watson  
klwatson@eicc.edu  
(563) 288-6012  
FAX (563)288-6014

## Scott Community College

500 Belmont Road,  
Bettendorf, IA 52722  
(563) 441-4001  
1-800-895-0811  
www.facebook.com/  
scottcommunitycollegeia

### Admissions Officer

LaDrina Wilson  
lnwilson@eicc.edu  
(563) 441-4007  
FAX (563) 441-4101

[www.eicc.edu](http://www.eicc.edu)

The Eastern Iowa Community College District endorses the principle of equal educational opportunities for all people regardless of race, color, creed, marital status, national origin, sex, sexual orientation, religion, ancestry, age, or non-job related handicap or disability in the educational programs or activities it operates. Persons having inquiries concerning the district's accommodation for or compliance with Title VI, Title IX, Section 504, the Americans with Disabilities Act and the Age Discrimination Act may contact: Affirmative Action Officer, 306 West River Drive, Davenport, IA 52801-1221 or call (563) 336-3300.

*Program requirements subject to change. Please check with your advisor.*

## SCC (A.A.S. Degree)

### SESSION I

ELE:101	Industrial Safety	1
ELE:115	Basic Electricity I	2
ELE:124	Tools/Adapters/Instruments	2
ENG:107	Composition I: Technical Writing (16-week class)	3
		<b>8</b>

### SESSION II

EGT:133	Hydraulics/Pneumatics I	2
ELE:116	Blueprint Reading	1
ELE:127	Troubleshooting	1
ELE:131	Basic Electricity II	2
	Technical Writing (cont.)	
		<b>6</b>

### SESSION III

CSC:112	Computer Fundamentals for Techs I/A	2
ELE:128	Electrical Systems I	3
ELE:144	Basic Electronics I/A	1.5
MAT:722	Industrial Math/Measurement I/A	1.5
		<b>8</b>

### SESSION IV

CSC:113	Computer Fundamentals for Techs I/B	2
EGT:134	Hydraulics/Pneumatics II	4
ELE:145	Basic Electronics I/B	1.5
MAT:723	Industrial Math/Measurement I/B	1.5
		<b>9</b>

### SESSION V

EGT:116	Continuous Quality Management	3
ELE:129	Electrical Systems II	3
PHY:173	Applied Physics I/A	1.75
	General Education Elective	3
		<b>10.75</b>

### SESSION VI

EGT:135	Hydraulics/Pneumatics III	3
ELE:133	Electrical Systems III	3
PHY:174	Applied Physics I/B	1.75
		<b>7.75</b>

### SESSION VII

EGT:137	Hydraulics/Pneumatics IV	4
ELE:134	Electrical System Controls	3
	General Education Elective	3
		<b>10</b>

### SESSION VIII

EGT:145	Hydraulics/Pneumatics V	4
ELE:139	Electrical Systems Analysis	3
		<b>7</b>

### A.A.S. TOTAL

**66.5**

### Clinton Community College

1000 Lincoln Boulevard,  
Clinton, IA 52732  
(563) 244-7001  
1-800-638-0559  
www.facebook.com/  
clintoncommunitycollegeia

#### Admissions Officer

Heather Mohler  
hmohler@eicc.edu  
(563) 244-7007  
FAX (563) 244-7107

### Muscatine Community College

152 Colorado Street,  
Muscatine, IA 52761  
(563) 288-6001  
1-800-351-4669  
www.facebook.com/  
muscatinecommunitycollegeia

#### Admissions Officer

Katie Watson  
klwatson@eicc.edu  
(563) 288-6012  
FAX (563) 288-6014

### Scott Community College

500 Belmont Road,  
Bettendorf, IA 52722  
(563) 441-4001  
1-800-895-0811  
www.facebook.com/  
scottcommunitycollegeia

#### Admissions Officer

LaDrina Wilson  
lnwilson@eicc.edu  
(563) 441-4007  
FAX (563) 441-4101

[www.eicc.edu](http://www.eicc.edu)

The Eastern Iowa Community College District endorses the principle of equal educational opportunities for all people regardless of race, color, creed, marital status, national origin, sex, sexual orientation, religion, ancestry, age, or non-job related handicap or disability in the educational programs or activities it operates. Persons having inquiries concerning the district's accommodation for or compliance with Title VI, Title IX, Section 504, the Americans with Disabilities Act and the Age Discrimination Act may contact: Affirmative Action Officer, 306 West River Drive, Davenport, IA 52801-1221 or call (563) 336-3300.

*Program requirements subject to change. Please check with your advisor.*

## APPLIED ELECTRICITY

### SCC (CERTIFICATE)

#### SESSION I

ELE:101	Industrial Safety	1
ELE:115	Basic Electricity I	2
ELE:124	Tools/Adapters/Instrumentation	2
		<b>5</b>

#### SESSION II

ELE:116	Blueprint Reading	1
ELE:127	Troubleshooting	1
ELE:131	Basic Electricity II	2
		<b>4</b>

#### SESSION III

ELE:144	Basic Electronics I/A	1.5
EGT:133	Hydraulics/Pneumatics I	2
PHY:173	Applied Physics I/A	1.75
		<b>5.25</b>

#### SESSION IV

ELE:145	Basic Electronics	1.5
PHY:174	Applied Physics I/B	1.75
		<b>3.25</b>
		<b>17.5</b>

### CERTIFICATE TOTAL

## Electrical Systems\*

### SCC (CERTIFICATE)

#### SESSION I

ELE:128	Electrical Systems I	3
ELE:129	Electrical Systems II	3
		<b>6</b>

#### SESSION II

ELE:133	Electrical Systems III	3
ELE:134	Electrical Systems Controls	3
		<b>6</b>

#### SESSION III

ELE:139	Electrical Systems Analysis	3
---------	-----------------------------	---

### CERTIFICATE TOTAL

\*Must meet prerequisites.

**15**

## Hydraulics/Pneumatics Systems\*

### SCC (CERTIFICATE)

#### SESSION I

EGT:133	Hydraulics/Pneumatics I	2
EGT:134	Hydraulics/Pneumatics II	4
		<b>6</b>

#### SESSION II

EGT:135	Hydraulics/Pneumatics III	3
EGT:137	Hydraulics/Pneumatics IV	4
		<b>7</b>

#### SESSION III

EGT:145	Hydraulics/Pneumatics V	4
---------	-------------------------	---

### CERTIFICATE TOTAL

\*Must meet prerequisites.

**17**