



## CLINTON & SCOTT COMMUNITY COLLEGE CAMPUSES

### Clinton Community College

1000 Lincoln Boulevard  
Clinton, Iowa  
(563) 244-7000

[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)  
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[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.*

## MECHATRONICS

### Program Description

Mechatronics is about today's world. It's where electronics, computers and mechanics converge to bring us the automated devices we use in our every day lives, both in the home and at work.

Training will prepare students to work in advanced manufacturing. With hands-on training, students will learn specialized skills in electronics, instrumentation, programmable logic controls, microprocessors, automation and robotics.

The college expects a high demand for the program not only from new students, but also from people who are already employed in a manufacturing facility.

### Award Options

Electrical Maintenance Certificate

Mechatronic Technician Diploma

Mechatronic Technology Associate in Applied Science Degree

### Areas of Training

**Mechatronics will train students in:**

Mechanical Drives • Fluid Power • Electrical Motor Control • Electronic Drives  
Electronics • AC/DC Electronics • Digital Circuits • Programmable Controllers  
Process Control • Robotics • Computer Aided Design (CAD)

### Career Areas

The Mechatronics program prepares students for careers requiring specialized skills in electricity, electronics, instrumentation, programmable logic controllers, microprocessors, automation and robotics. Students will be prepared for a widevariety of careers including:

- Instrument Technician
- Electrical Technician
- Electromechanical Technician
- Electronics Mechanic
- Machine Repair & Maintenance
- Scale Mechanic
- Motor Installer
- Laboratory Calibration Technician
- Hydroelectric Machinery Mechanic
- Robotics Technician

### Job/Earnings Outlook

The Occupational Outlook Handbook, published by the United States Bureau of Labor Statistics, provides detailed information on hundreds of jobs - including:

- earnings
- expected job prospects
- what workers do on the job
- working conditions

In addition, the Handbook gives you job search tips, links to information about the job market in each state, and more.

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



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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.

# MECHATRONICS

## A.A.S. DEGREE

### FIRST SEMESTER

CAD:114	AutoCAD I	2
ELE:141	DC & AC Circuits	4
ELT:174	Digital Circuits OR	3
EGT/EGR:420	Digital Electronics	
IND:111	Industrial Safety Mechanical Systems	1
MAT:743	Technical Math	3
		<b>13</b>

### SECOND SEMESTER

ELT:153	Electronics	4
IND:136	Process Control I	3
IND:143	Motors & Drives	3
IND:149	Applied Mechanics	3
MAT:748	Technical Math II	3
		<b>16</b>

### DIPLOMA TOTAL

**29**

### THIRD SEMESTER

ELT:123	Programmable Controllers	3
ELT:175	Computer Programming	3
ELT:176	Instrumentation	3
IND:137	Process Control II	3
IND:148	Mechanisms	3
		<b>15</b>

### FOURTH SEMESTER

ATR:123	Automation Technology	3
ATR:276	Networking for Industry	3
ELT:177	Microcontrollers	3
ENG:107	Composition I: Technical Writing	3
IND:188	Mechatronic Applications	3
		<b>15</b>

### SUGGESTED ELECTIVES

CSC:110	Introduction to Computers OR	3
PSY:213	Industrial and Organizational Psychology	3
	(or other social science elective)	6

### A.A.S. TOTAL

**65**

#### Clinton Community College

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#### Admissions Officer

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#### Muscatine Community College

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#### Scott Community College

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scottcommunitycollegeia](http://www.facebook.com/scottcommunitycollegeia)

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