

**CLINTON  
COMMUNITY COLLEGE**

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

# 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. Courses will be offered both day and evening, and in a variety of approaches: self-paced, computer-assisted, hands-on labs, and one-on-one with instructors.

## 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



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

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

**1-888-336-3907**  
**toll-free**

## Earnings

Mechatronics prepares students for so many different career paths that we can't possibly list all of the earnings possibilities here. However, using some of the possible electronics careers as an example, here's information from the US Department of Labor's Occupational Outlook Handbook.

Median hourly wages of electrical and electronics repairers, commercial and industrial equipment were \$23.29 in May 2008. The middle 50 percent earned between \$18.40 and \$28.73.

Median hourly wages of electric motor, power tool, and related repairers were \$16.96 in May 2008. The middle 50 percent earned between \$13.48 and \$21.57.

Median hourly wages of electrical and electronics repairers, powerhouse, substation, and relay were \$29.34 in 2008. The middle 50 percent earned between \$25.68 and \$33.72.

Median hourly wages of electrical and electronics repairers, and transportation equipment were \$21.37 in 2008. The middle 50 percent earned between \$16.86 and \$25.73.

**For more information contact Clinton Community College 563-244-7000 or toll free 1-888-336-3907.**

ADMISSIONS OFFICER

**Cheryl Tack**

[ctack@eicc.edu](mailto:ctack@eicc.edu)

**(563) 244-7007**

FAX (563) 244-7107

## **CLINTON COMMUNITY COLLEGE**

1000 Lincoln Boulevard

Clinton, Iowa 52732

**(563) 244-7001**

[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 W. River Drive, Davenport, Iowa 52801, (563) 336-3300.

4/10 AG



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

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

**1-888-336-3907**

**toll-free**

ADMISSIONS OFFICER

**Cheryl Tack**

[ctack@eicc.edu](mailto:ctack@eicc.edu)

**(563) 244-7007**

FAX (563) 244-7107

**CLINTON  
COMMUNITY COLLEGE**

1000 Lincoln Boulevard

Clinton, Iowa 52732

**(563) 244-7001**

[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 W. River Drive, Davenport, Iowa 52801, (563) 336-3300.

4/10 AG



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

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

**1-888-336-3907**

**toll-free**

# A.A.S. DEGREE

## FIRST SEMESTER

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

## SECOND SEMESTER

ELT:153	Electronics	4
IND:136	Process Control I	3
IND:149	Applied Mechanics	3
IND:143	Motors & Drives	3
MAT:748	Technical Math II	<u>3</u>
		<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	<u>3</u>
		<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	<u>3</u>
		<b>15</b>

## SUGGESTED ELECTIVES

CSC:110	Introduction to Computers	3
PSY:213	Industrial and Organizational Psychology	<u>3</u>
		<b>6</b>

**A.A.S. TOTAL . . . . . 65**