

# ENGINEERING TECHNOLOGY

## Program Description

The program trains students to be specialists in the practical application and implementation of existing technology within the field of engineering. This degree will prepare highly skilled and needed workers for area manufacturers. The Engineering Technology program includes areas of specialization in Automation, Electromechanical, and Process Control.

A sequence of calculus courses is available for those students wishing to transfer on for their Bachelor's degree. Offered at Clinton, Muscatine, and Scott Community Colleges the program will provide delivery options that will allow individuals who are currently working to complete the degree through flexible scheduling, hybrid courses (a combination of in-class and online learning), and a model of eight-week modules which allows for numerous start times during the year.

## Award Options

Engineering Technology, Associate of Applied Science

- Automation Concentration
- Electromechanical Concentration
- Process Control Concentration

Engineering Technology Electromechanical, Diploma

Basic Electricity, Certificate

Basic Electronics, Certificate

Electrical Systems, Certificate

Process Control Technology, Certificate

## Job Outlook

The Engineering Technology program prepares student for a wide variety of careers including:

- Plant Maintenance Technician
- Robotics Technician
- Process Controls Technician
- Electrical/Electronics Technician
- Process Development Technician
- Automation Technician
- Service Engineer
- Project Coordinator
- Design Technician
- Health and Safety Coordinator
- Production Planner/Scheduler
- Quality Assurance Coordinator

For more information check out Engineering Technology program page at:

<https://www.eicc.edu/future-students/our-programs/engineering/>.

## Non-discrimination Statement / Equal Educational Opportunities

It is the policy of Eastern Iowa Community College District not to discriminate in its programs, activities, or employment on the basis of race, color, national origin, sex, disability, age, sexual orientation, gender identity, creed, religion, and actual or potential family, parental or marital status, as required by the Iowa Code §§216.6 and 216.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681-1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

If you have questions or complaints related to compliance with this policy, please contact Debora J. Sullivan, Equal Employment Opportunity Officer/Equity Coordinator, Eastern Iowa Community College District, 101 West Third Street, Davenport, Iowa 52801, 563-336-3487, [djsullivan@eicc.edu](mailto:djsullivan@eicc.edu) or the Director of the Office for Civil Rights U.S. Department of Education, John C. Kluczynski Federal Building, 230 S. Dearborn Street, 37th Floor, Chicago, IL 60604-7204, Telephone: (312) 730-1560 Facsimile: (312) 730-1576, TDD (800) 877-8339 Email: [OCR.Chicago@ed.gov](mailto:OCR.Chicago@ed.gov).



**THE** *Community's College*



**CLINTON, MUSCATINE  
AND SCOTT COMMUNITY  
COLLEGES**

### Program Faculty

**Dave Wallace**

563-244-7163

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

**Craig Nelson**

563-441-4392

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

**Steve Harfst**

563-288-6025

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

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

Toll-free 1-888-336-3907

### 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 EICC Board of Trustees.

# ENGINEERING TECHNOLOGY

## Engineering Technology, AAS Degree

<b>TERM 1 – ALL CONCENTRATIONS</b>		<b>Credits</b>
ELE-101	Industrial Safety [1.00 credits] <b>OR</b>	1.00
MFG-106	Workplace Safety [3.00 credits] <b>OR</b>	
MFG-186	Plant Safety [1.00 credits]	
ELE-216	DC Circuit Analysis	3.00
ELE-217	AC Circuit Analysis	3.00
IND-134	Print Reading	2.00
MAT-128	Precalculus [4.00 credits] <b>OR</b>	4.00
MAT-210	Calculus I [4.00 credits] <b>OR</b>	
MAT-705	Industrial Math & Measurement I [2.00 credits] <b>AND</b>	
MAT-706	Industrial Math & Measurement II [2.00 credits]	
		13.00 – 15.00

**Basic Electricity, Certificate Total.....13.00 – 15.00**

<b>TERM 2 – ALL CONCENTRATIONS</b>		
CSC-110	Introduction to Computers [3.00 credits] <b>OR</b>	3.00
CSC-107	Computers Literacy [3.00 credits] <b>OR</b>	
CSC-112	Computer Fundamentals for Technicians I/A [2.00 credits] <b>AND</b>	
CSC-113	Computer Fundamentals for Technicians I/B [2.00 credits]	
ELE-225	Electrical Motor Control and Power Distribution	3.00
ELT-309	Digital Circuits	3.00
ELT-312	Solid State Devices and Systems	3.00
PHY-185	Conceptual Physics Fundamentals I	2.00
		14.00 – 15.00

**Basic Electronics, Certificate Total..... 27.00 – 30.00**

<b>TERM 3 – SUMMER – ALL CONCENTRATIONS</b>		
ECN-120	Principles of Macroeconomics <b>OR</b>	3.00
ECN-130	Principles of Microeconomics <b>OR</b>	
HUM-105	Working in America <b>OR</b>	
HUM-110	Changes and Choices <b>OR</b>	
POL-111	American National Government <b>OR</b>	
PSY-111	Introduction to Psychology <b>OR</b>	
SOC-110	Introduction to Sociology	
ENG-105	Composition I <b>OR</b>	3.00
ENG-107	Composition I: Technical Writing	
PHY-186	Conceptual Physics Fundamentals II	2.00
		8.00

**Engineering Technology Electromechanical, Diploma Total ..... 35.00 – 38.00**

<b>TERM 4 – ALL CONCENTRATIONS</b>		
EGT-117	Fluid Power Fundamentals	2.00
ELT-123	Programmable Logic Controllers	3.00
ELT-125	Advanced PLC	3.00
IND-143	Motors and Drives	3.00
MFG-505	Lean Manufacturing	1.00
		12.00

## Clinton Community College

1000 Lincoln Boulevard,  
Clinton, IA 52732  
563-244-7001  
1-800-638-0559

[www.facebook.com/clintoncommunitycollegeia](http://www.facebook.com/clintoncommunitycollegeia)

### Admissions Officer

**Heather Evans**

[hlevans@eicc.edu](mailto:hlevans@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/muscatinecommunitycollege](http://www.facebook.com/muscatinecommunitycollege)

### Admissions Officer

**Kari Hanson**

[khanson@eicc.edu](mailto:khanson@eicc.edu)  
563-288-6007

## Scott Community College

500 Belmont Road,  
Bettendorf, IA 52722  
563-441-4001  
1-800-895-0811

[www.facebook.com/scottcommunitycollege](http://www.facebook.com/scottcommunitycollege)

### Admissions Officer

**Kelsey King – Belmont Campus**

[kking@eicc.edu](mailto:kking@eicc.edu)  
563-441-4007  
FAX 563-441-4101

**Amy Herrig – Urban Campus**

[atherrig@eicc.edu](mailto:atherrig@eicc.edu)  
563-336-5258

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



It is the policy of Eastern Iowa Community College District not to discriminate in its programs, activities, or employment on the basis of race, color, national origin, sex, disability, age, sexual orientation, gender identity, creed, religion, and actual or potential family, parental or marital status, as required by the Iowa Code §§216.6 and 216.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681-1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

If you have questions or complaints related to compliance with this policy, please contact Debora J. Sullivan, Equal Employment Opportunity Officer/Equity Coordinator, Eastern Iowa Community College District, 101 West Third Street, Davenport, Iowa 52801, 563-336-3487, [djsullivan@eicc.edu](mailto:djsullivan@eicc.edu) or the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 West Madison Street, Suite 1475, Chicago, Illinois 60661-7204, phone number 312-730-1560, fax 312-730-1576, OCR. [Chicago@ed.gov](mailto:Chicago@ed.gov).

For the fifth and final term, students will take a series courses in one of three concentration areas: Automation Concentration, Electromechanical Concentration, or Process Control Concentration.

### TERM 5 – AUTOMATION CONCENTRATION

	<b>Credits</b>
ATR-105 Industrial Robotics	3.00
ATR-106 Motion Control	3.00
ELT-177 Microcontrollers	3.00
(Select two courses from the following)	
CHM-122 Introduction to General Chemistry	4.00
EGT-137 Fluid Power Control	4.00
EGT-145 Fluid Power Maintenance	4.00
IND-136 Process Control I	3.00
IND-137 Process Control II	3.00
	15.00 – 17.00

### TERM 5 – ELECTROMECHANICAL CONCENTRATION

ATR-106 Motion Control	3.00
EGT-137 Fluid Power Control	4.00
EGT-145 Fluid Power Maintenance	4.00
(Select two courses from the following)	
ATR-105 Industrial Robotics	3.00
CHM-122 Introduction to General Chemistry	4.00
ELT-177 Microcontrollers	3.00
IND-136 Process Control I	3.00
IND-137 Process Control II	3.00
	17.00 – 18.00

### TERM 5 – PROCESS CONTROL CONCENTRATION

CHM-122 Introduction to General Chemistry	4.00
IND-136 Process Control I	3.00
IND-137 Process Control II	3.00
(Select two courses from the following)	
ATR-105 Industrial Robotics	3.00
ATR-106 Motion Control	3.00
EGT-137 Fluid Power Control	4.00
EGT-145 Fluid Power Maintenance	4.00
ELT-177 Microcontrollers	3.00
	16.00 – 18.00

**Engineering Technology, AAS Total** ..... **62.00 – 68.00**

## Electrical Systems, Diploma

### TERM 1

	<b>Credits</b>
CSC-110 Introduction to Computers [3.00 credits] <b>OR</b>	3.00
CSC-107 Computers Literacy [3.00 credits] <b>OR</b>	
CSC-112 Computer Fundamentals for Technicians I/A [2.00 credits] <b>AND</b>	
CSC-113 Computer Fundamentals for Technicians I/B	
ELE-101 Industrial Safety [1.00 credits] <b>OR</b>	1.00
MFG-106 Workplace Safety [3.00 credits] <b>OR</b>	
MFG-186 Plant Safety [1.00 credits]	
ELE-216 DC Circuit Analysis	3.00
ELE-217 AC Circuit Analysis	3.00
MAT-705 Industrial Math and Measurement I	2.00
MFG-505 Lean Manufacturing	1.00
	13.00 – 16.00

## Clinton Community College

1000 Lincoln Boulevard,  
Clinton, IA 52732  
563-244-7001  
1-800-638-0559

[www.facebook.com/clintoncommunitycollegeia](http://www.facebook.com/clintoncommunitycollegeia)

### Admissions Officer

**Heather Evans**

[hlevans@eicc.edu](mailto:hlevans@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/muscatinecommunitycollege](http://www.facebook.com/muscatinecommunitycollege)

### Admissions Officer

**Kari Hanson**

[khanson@eicc.edu](mailto:khanson@eicc.edu)  
563-288-6007

## Scott Community College

500 Belmont Road,  
Bettendorf, IA 52722  
563-441-4001  
1-800-895-0811

[www.facebook.com/scottcommunitycollege](http://www.facebook.com/scottcommunitycollege)

### Admissions Officer

**Kelsey King – Belmont Campus**

[kking@eicc.edu](mailto:kking@eicc.edu)  
563-441-4007  
FAX 563-441-4101

**Amy Herrig – Urban Campus**

[atherrig@eicc.edu](mailto:atherrig@eicc.edu)  
563-336-5258

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



It is the policy of Eastern Iowa Community College District not to discriminate in its programs, activities, or employment on the basis of race, color, national origin, sex, disability, age, sexual orientation, gender identity, creed, religion, and actual or potential family, parental or marital status, as required by the Iowa Code §§216.6 and 216.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681-1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

If you have questions or complaints related to compliance with this policy, please contact Debora J. Sullivan, Equal Employment Opportunity Officer / Equity Coordinator, Eastern Iowa Community College District, 101 West Third Street, Davenport, Iowa 52801, 563-336-3487, [djsullivan@eicc.edu](mailto:djsullivan@eicc.edu) or the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 West Madison Street, Suite 1475, Chicago, Illinois 60661-7204, phone number 312-730-1560, fax 312-730-1576, OCR. [Chicago@ed.gov](mailto:Chicago@ed.gov).

**TERM 2**

ATR-105	Industrial Robotics	3.00
ELE-225	Electrical Motor Control & Power Distribution	3.00
ELT-123	Programmable Logic Controllers	3.00
ELT-309	Digital Circuits	3.00
ELT-312	Solid State Devices and Systems	3.00
		<u>15.00</u>

**TERM 3 – SUMMER**

ATR-106	Motion Control	3.00
ELT-125	Advanced PLC	3.00
IND-143	Motors and Drives	3.00
		<u>9.00</u>

**Electrical Systems, Diploma Total ..... 37.00 – 40.00**

**Process Control Technology, Certificate****TERM 1**

ELE-101	Industrial Safety [1.00 credits] <b>OR</b>	1.00
MFG-106	Workplace Safety [3.00 credits] <b>OR</b>	
MFG-186	Plant Safety [1.00 credits]	
ELE-216	DC Circuit Analysis	3.00
ELE-217	AC Circuit Analysis	3.00
IND-134	Print Reading	2.00
MAT-705	Industrial Math and Measurement I	2.00
MAT-706	Industrial Math and Measurement II	2.00
		<u>13.00 – 15.00</u>

**TERM 2**

CHM-122	Introduction to General Chemistry	4.00
ELE-225	Electrical Motor Controls and Power Distribution	3.00
ELT-312	Solid State Devices and Systems	3.00
IND-136	Process Control I	3.00
		<u>13.00</u>

**TERM 3 – SUMMER**

IND-137	Process Control II	3.00
		<u>3.00</u>

**Term 3 Optional Course**

EGT-902	Coop/Internship	2.00
---------	-----------------	------

**Process Control Technology, Certificate Total ..... 29.00 – 30.00**

**Credits****Clinton Community College**

1000 Lincoln Boulevard,  
Clinton, IA 52732  
563-244-7001  
1-800-638-0559

[www.facebook.com/clintoncommunitycollegeia](http://www.facebook.com/clintoncommunitycollegeia)

**Admissions Officer**

**Heather Evans**

[hlevans@eicc.edu](mailto:hlevans@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/muscatinecommunitycollege](http://www.facebook.com/muscatinecommunitycollege)

**Admissions Officer**

**Kari Hanson**

[khanson@eicc.edu](mailto:khanson@eicc.edu)  
563-288-6007

**Scott Community College**

500 Belmont Road,  
Bettendorf, IA 52722  
563-441-4001  
1-800-895-0811

[www.facebook.com/scottcommunitycollege](http://www.facebook.com/scottcommunitycollege)

**Admissions Officer**

**Kelsey King – Belmont Campus**

[kking@eicc.edu](mailto:kking@eicc.edu)  
563-441-4007  
FAX 563-441-4101

**Amy Herrig – Urban Campus**

[atherrig@eicc.edu](mailto:atherrig@eicc.edu)  
563-336-5258

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



It is the policy of Eastern Iowa Community College District not to discriminate in its programs, activities, or employment on the basis of race, color, national origin, sex, disability, age, sexual orientation, gender identity, creed, religion, and actual or potential family, parental or marital status, as required by the Iowa Code §§216.6 and 216.9, Titles VI and VII of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d and 2000e), the Equal Pay Act of 1973 (29 U.S.C. § 206, et seq.), Title IX (Educational Amendments, 20 U.S.C. §§ 1681-1688), Section 504 (Rehabilitation Act of 1973, 29 U.S.C. § 794), and Title II of the Americans with Disabilities Act (42 U.S.C. § 12101, et seq.).

If you have questions or complaints related to compliance with this policy, please contact Debora J. Sullivan, Equal Employment Opportunity Officer/Equity Coordinator, Eastern Iowa Community College District, 101 West Third Street, Davenport, Iowa 52801, 563-336-3487, [djsullivan@eicc.edu](mailto:djsullivan@eicc.edu) or the Director of the Office for Civil Rights, U.S. Department of Education, Citigroup Center, 500 West Madison Street, Suite 1475, Chicago, Illinois 60661-7204, phone number 312-730-1560, fax 312-730-1576, OCR. [Chicago@ed.gov](mailto:Chicago@ed.gov).