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, Electro-Mechanical 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 AAS
- Specialization Areas: Automation, Electromechanical or Process Control
Engineering Technology Electromechanical Diploma
Basic Electricity Certificate
Basic Electronics Certificate
Electrical Systems Certificate
Process Control Technology Certificate

Job Outlook
Employment of engineering technicians is expected to grow 5 percent from 2012 to 2022, which is slower than the average for all occupations. Employment in this occupation depends on the overall state of manufacturing. Median annual wages of engineering technicians were $51,980 in May 2012. The lowest 10 percent earned less than $33,370, and the top 10 percent earned more than $76,660.

For details, please visit this link http://www.bls.gov/oco/
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If you have questions or complaints related to compliance with the policy, please contact Debra J. Sullivan, Equity Coordinator, 306 W. River Drive, Davenport, Iowa 52801, 563/336–3487, dsullivan@eicc.edu or the Director of the Office for Civil Rights, U.S. Department of Education, Civil Rights Division, 800 Vermont Avenue, N.W., Washington, D.C. 20001, 800/335-3775.

Clinton Community College
1000 Lincoln Boulevard,
Clinton, IA 52732
(563) 244–7001
1–800–638–0559
www.facebook.com/clintoncommunitycollege

Admissions Officer
Heather Evans
hlevans@eicc.edu
(563) 244–7007
FAX (563) 244–7107

Muscavine Community College
152 Colorado Street,
Muscatine, IA 52761
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Scott Community College
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Automation

TERM 5
Session I
ATR:105 Industrial Robotics 3.00
ATR:106 Motion Control 3.00
ELT:177 Microcontrollers 3.00

Session II
Must select two from below for at least six hours:
CHM:122 Introduction to General Chemistry OR 4.00
EGT:137 Fluid Power Control OR 4.00
EGT:145 Fluid Power Maintenance OR 4.00
IND:136 Process Control I OR 3.00
IND:137 Process Control II 3.00

A.A.S. Total.................................................................62.00–63.00

Electromechanical

TERM 5
Session I
ATR:106 Motion Control 3.00
EGT:137 Fluid Power Control 4.00
EGT:145 Fluid Power Maintenance 4.00

Session II
Must select two from below for at least six hours:
ATR:105 Industrial Robotics OR 3.00
CHM:122 Introduction to General Chemistry OR 4.00
ELT:177 Microcontrollers OR 3.00
IND:136 Process Control I OR 3.00
IND:137 Process Control II 3.00

A.A.S. Total.................................................................64.00–65.00

Process Control

TERM 5
Session I
CHM:122 Introduction to General Chemistry 4.00
IND:136 Process Control I 3.00

Session II
IND:137 Process Control II 3.00
Must select two from below for at least six hours:
ATR:105 Industrial Robotics OR 3.00
ATR:106 Motion Control OR 3.00
EGT:137 Fluid Power Control OR 4.00
EGT:145 Fluid Power Maintenance OR 4.00
ELT:177 Microcontrollers 3.00

A.A.S. Total.................................................................63.00–64.00
## Electrical Systems Certificate

<table>
<thead>
<tr>
<th>TERM 1</th>
<th>Credits</th>
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<tr>
<td><strong>Session I</strong></td>
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<tr>
<td>ELE:101 Industrial Safety</td>
<td>1.00</td>
</tr>
<tr>
<td>CSC:112 Computer Fundamentals for Technicians I/A</td>
<td>2.00</td>
</tr>
<tr>
<td>CSC:113 Computer Fundamentals for Technicians I/B</td>
<td>2.00</td>
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<tr>
<td>ELE:216 DC Circuit Analysis</td>
<td>3.00</td>
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<tr>
<td><strong>Session II</strong></td>
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<tr>
<td>ELE:217 AC Circuit Analysis</td>
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<tr>
<td>MAT:075 Industrial Math and Measurement I</td>
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<tr>
<td>MFG:505 Lean Manufacturing</td>
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<tr>
<th>TERM 2</th>
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<tbody>
<tr>
<td><strong>Session I</strong></td>
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<tr>
<td>ATR:105 Industrial Robotics</td>
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<tr>
<td>ELE:225 Electrical Motor Control and Power Distribution</td>
<td>3.00</td>
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<tr>
<td><strong>Session II</strong></td>
<td></td>
</tr>
<tr>
<td>ELT:123 Programmable Logic Controllers</td>
<td>3.00</td>
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<tr>
<td>ELT:309 Digital Circuits and Systems</td>
<td>3.00</td>
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<tr>
<td>ELT:312 Solid State Devices and Systems</td>
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<tr>
<td><strong>Total</strong></td>
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<thead>
<tr>
<th>TERM 3 - SUMMER</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ATR:106 Motion Control</td>
<td>3.00</td>
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<tr>
<td>ELT:125 Advanced PLC</td>
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<td>IND:143 Motors and Drives</td>
<td>3.00</td>
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<td><strong>Total</strong></td>
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**Certificate Total** ............................................................................................................................ **38.00**

## Process Control Technology Certificate

<table>
<thead>
<tr>
<th>TERM 1</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td><strong>Session I</strong></td>
<td></td>
</tr>
<tr>
<td>ELE:101 Industrial Safety</td>
<td>1.00</td>
</tr>
<tr>
<td>ELE:216 DC Circuit Analysis</td>
<td>3.00</td>
</tr>
<tr>
<td>MAT:705 Industrial Math and Measurement I</td>
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<tr>
<td><strong>Session II</strong></td>
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<tr>
<td>ELE:217 AC Circuit Analysis</td>
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<tr>
<td>IND:134 Industrial Print Reading</td>
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<tr>
<td>MAT:706 Industrial Math and Measurement II</td>
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<thead>
<tr>
<th>TERM 2</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Session I</strong></td>
<td></td>
</tr>
<tr>
<td>CHM:122 Introduction to General Chemistry</td>
<td>4.00</td>
</tr>
<tr>
<td>ELE:225 Electrical Motor Controls and Power Distribution</td>
<td>3.00</td>
</tr>
</tbody>
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### Session II

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IND:136</td>
<td>Process Control I</td>
<td>3.00</td>
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<tr>
<td>ELT:123</td>
<td>Programmable Logic Controllers OR</td>
<td>3.00</td>
</tr>
<tr>
<td>ELT:309</td>
<td>Digital Circuits and Systems OR</td>
<td>3.00</td>
</tr>
<tr>
<td>ELT:312</td>
<td>Solid State Devices and Systems OR</td>
<td>3.00</td>
</tr>
<tr>
<td>EGT:117</td>
<td>Fluid Power Fundamentals OR</td>
<td>2.00</td>
</tr>
<tr>
<td>EGT:137</td>
<td>Fluid Power Control</td>
<td>4.00</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>13.00</strong></td>
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</table>

### TERM 3 - SUMMER

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IND:137</td>
<td>Process Control II</td>
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<tr>
<td>EGT:902</td>
<td>Coop/Internship (Recommended Optional)</td>
<td>(2.00)</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>3.00</strong></td>
</tr>
</tbody>
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**Certificate Total**: 29.00

The Engineering Technology Program is funded in part by the Trade Adjustment Assistance Community College and Career Training (TAACCT) Grant program which is in partnership with the Department of Labor and the Department of Education. Through these multi-year grants, the Department of Labor is helping to ensure that our nation’s institutions of higher education are helping adults succeed in acquiring the skills, degrees, and credentials needed for high-wage, high-skill employment while also meeting the needs of employers for skilled workers.

Gainful employment information for the Engineering Technology program is located at [www.eicc.edu/gainfulemployment](http://www.eicc.edu/gainfulemployment)