

# 2018-2019 TTC Catalog

## Electrician - Industrial

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### Certificate in Applied Science

#### 36 Credit Hours

The Electrician: Industrial certificate program prepares you for employment as an industrial maintenance electrician. Emphasis is placed on electrical/electronic theory and industrial electrical equipment such as motors, transformers, motor control systems, drive systems and programmable controllers. Special emphasis is placed on developing troubleshooting skills.

#### Major Requirements

EEM 107 Industrial Computer Techniques 2  
EEM 113 DC Circuits I 2  
EEM 114 DC Circuits II 2  
EEM 119 AC Circuits I 2  
EEM 120 AC Circuits II 2  
EEM 129 Solid State Devices I 2  
EEM 130 Solid State Devices II 2  
EEM 138 National Electrical Code I 2  
EEM 139 National Electrical Code II 2  
EEM 151 Motor Controls I 4  
EEM 167 Commercial-Industrial Wiring I 2  
EEM 168 Commercial-Industrial Wiring II 2  
EEM 218 AC DC Machines with Electrical Codes I 2  
EEM 219 AC DC Machines with Electrical Codes II 2  
EEM 221 DC AC Drives 3  
EEM 251 Programmable Controllers 3

Total: 36 Admission into this program requires qualifying scores on SAT, ACT or TTC's placement test. High school graduation is not required if you are at least 18 years old.

#### Gainful Employment

Electrician: Industrial