

# 2018-2019 TTC Catalog

## Electrician - Automated Controls

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### Certificate in Applied Science

#### 36 Credit Hours

The Electrician: Automated Controls certificate program prepares you for employment in industry as an automated controls maintenance technician. Emphasis is placed on electrical/electronic theory, programmable controllers and their applications, instrumentation and process control systems, and hydraulic/pneumatic systems.

#### 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 221 DC AC Drives 3  
EEM 251 Programmable Controllers 3  
EEM 252 Programmable Controllers Applications 3  
EIT 110 Principles of Instrumentation 3  
EIT 244 Computers and PLCs in Instrumentation 3  
IMT 132 Hydraulics 2  
IMT 133 Pneumatics 2  
IMT 163 Problem Solving for Mechanical Applications 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: Automated Controls