



**INSTITUTE OF  
TECHNOLOGY**

# PROGRAM OF STUDY

## Electromechanical Technology Specialization

### Associate in Applied Science

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The program prepares students for job opportunities in many different areas of the economy. Graduates from the Electrical/Electronic Technology program play a vital role in keeping our high-tech world running. They conceive, design, build, operate, and maintain the systems that make our lifestyle possible. Graduates experience a multi-disciplinary program that allows them to be a highly productive team member; often bridging the gap between the engineer and the layperson.

#### **Technical Course Requirements**

*(21 Credit Hours)*

Intro to Design/Drafting  
*3 Credit hours*

DC Electronics & Metrology  
*3 Credit hours*

AC Electronics & Photonics  
*3 Credit hours*

Electronic Devices/Standards  
*3 Credit Hours*

Electrical Motors & Controls  
*3 Credit Hours*

Hydraulics & Pneumatics  
*3 Credit Hours*

Electrical Power Distribution  
*3 Credit Hours*

#### **Approved Electives**

*(Choice of 25 Credit Hours)*

Workplace Safety  
*2 Credit Hours*

HVAC Fundamentals  
*3 Credit Hours*

Test Instruments & Troubleshooting  
*1 Credit Hour*

Intro to Electrical/Electronics Technology  
*3 Credit Hours*

Intro to Manufacturing  
*3 Credit Hours*

PLC Basics  
*3 Credit Hours*

Intro to PLCs  
*3 Credit Hours*

Maintenance Theory & Application  
*2 Credit Hours*

Mechanical Systems & Equipment  
*2 Credit Hours*

PLC Applications  
*3 Credit Hours*

Electronic Control Devices  
*3 Credit Hours*

Intro to Instrumentation  
*3 Credit Hours*

Intro to DCS Systems  
*3 Credit Hours*

Process Control  
*3 Credit Hours*

Motor Controls II  
*3 Credit Hours*

Employment Exploration  
*1 Credit Hour*

Internship  
*7 Credit Hours- min. 2.5 GPAP*

#### **General Education Requirements**

*(29 Credit Hours)*

Freshman Composition I  
*3 Credit Hours*

Freshman Composition II  
*3 Credit Hours*

College Algebra  
*3 Credit hours*

Trigonometry  
*3 Credit hours*

Ethics  
*3 Credit hours*

U.S. History to 1865 *or*  
U.S. History Since 1865  
*3 Credit hours*

U.S. Government  
*3 Credit Hours*

Small Group Communications  
*3 Credit Hours*

General Physics  
*4 Credit Hours*

College Strategies  
*1 Credit Hour*

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**21 Credit Hours (Technical)**

**25 Credit Hours (Electives)**

**29 Credit Hours (Gen Ed)**

**75 Total Credit Hours**

#### **Contact Information**

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