

- I. Industrial Technology Maintenance ♦ Associate of Applied Science ♦ 61 Credits
- II. Industrial Technology Maintenance Level One ♦ Certificate ♦ 31 Credits
- III. Industrial Technology Maintenance Level Two ♦ Certificate ♦ 16 Credits

### Program Description

The Industrial Technology Maintenance Program provides the student with knowledge and essential skills in the complex electro-mechanical systems found in production facilities. Learn about digital electronics, print reading, motors and controls, and mechanical components. Be prepared for the work force needs in this growing industry. The Program's name (formerly Electromechanical Technology) was changed to Industrial Technology Maintenance to align with industry standards for NIMS certification (the National Institute of Metalworking Skills). There are three award options. You can earn the Level One Certificate by completing the courses in Semesters One and Two. You can then earn the Level Two Certificate by completing the courses in Semester Three. Upon completion of all courses in the Curriculum Map, you will earn the Associate of Applied Science Degree.

### Career Options

The A A S degree in Industrial Technology Maintenance prepares you for a career as an Electronic Technician or an Industrial Facilities Technician.

The recommended full time schedule starting in the fall semester is as follows.

#### Semester One, Fall, 15 Credits.

COURSE PREFIX	COURSE NUMBER	TITLE	CREDITS
E L T	106	Fundamentals of D C / A C	4
E L T	107	Industrial Electronics	3
M A C	100	Machine Shop Safety	1
M A C	256	Industrial Components	3
M A T	108	Technical Mathematics	4

#### Semester Two, Spring, 16 Credits.

COURSE PREFIX	COURSE NUMBER	TITLE	CREDITS
E L T	252	Motors and Controls	3
E L T	254	Industrial Wiring	3
E L T	258	Programmable Logic Controllers	3
M A C	105	Introduction to Machining	4
M A C	265	Mechanical Components 2	3

**Semester Three, Fall, 16 Credits.**

COURSE PREFIX	COURSE NUMBER	TITLE	CREDITS
E L T	257	Sensors and Transducers	3
E L T	259	Advanced Programmable Logic Controllers	3
E L T	289	Capstone: Automated Systems / Robotics	3
M T E	238	Industrial Fluid and Power Controls	3
W E L	102	Oxy-Acetylene Joining Process <b>OR</b>	4
W E L	124	Introduction to Gas Tungsten Arc Welding	4

**Semester Four, Spring, 14 Credits.**

COURSE PREFIX	COURSE NUMBER	TITLE	CREDITS
E N G	131	Technical Writing	3
E L T	280	Internship	3

Any combination of General Education courses can be chosen, totaling 8 credits but the following are recommended.

COURSE PREFIX	COURSE NUMBER	TITLE	CREDITS
C O M	125	Interpersonal Communications	3
C O M	269	Leadership (or another C O M course)	1
P H Y	105	Conceptual Physics	4

**Semester Milestones**

Always complete courses with a grade of C or higher.

**Fall 1<sup>st</sup> Year**

1) Complete FAFSA for next academic year when registering for spring semester.

**Spring 1<sup>st</sup> Year**

1) Complete scholarship applications for next academic year. 2) Register for fall semester and summer, if applicable. 3) If you plan to enroll in summer classes, submit Summer Intent Form to Financial Aid Office. 4) Check on your portal to make sure your Financial Aid is processed for next year. If so, you will be able to accept your award offer.

**Fall 2<sup>nd</sup> Year**

1) Meet with your advisor to complete your Graduation Planning Sheet; 2) Register for spring semester.

**Spring 2<sup>nd</sup> Year**

1) Graduate!!