PRCT 2024 - Process Tech I (Equipment)
This course involves the fundamental and operating considerations of Process Equipment such as: valves and piping; pumps and compressors; generators; turbines; motors; lubrication systems; heat exchangers; furnaces and boilers; towers; drums; separators; and reactors. This course will examine thermodynamic and hydraulic aspects, as well as the mechanical characteristics of plant equipment.
Prerequisite: PRCT 1123.
This is a 60 hour course and runs for 10 wks. Course Dates & Prices TBA

ELET 2215 - Digital Circuits
The course is a comprehensive study of the principles and techniques of modern digital system. Topics to be included are number systems and codes, logic gates and Boolean algebra, combinational logic circuits, flip-flops and related devices, arithmetic circuits, counters and registers, MSI logic circuits, analog conversion, memory devices, and integrated-circuit logic families.
This is a 75 hour course and runs for 12 ½ wks. Course Dates & Prices TBA

PRCT 2034 - Industrial Instrumentation
This course is designed to introduce the student to a simple pneumatic control loop. Specifically, the student will be introduced to pressure, temperature, level and flow transmitters and the various transducers used in the detection of changes in process variables; pneumatic controllers, valve positioners, control valve types, pneumatic relays and the nullbalance system are also included as part of the control loop.
Prerequisite: PRCT 1123.
This is a 60 hour course and runs for 10 wks. Course Dates & Prices TBA

ELET 1503 - Programmable Control
A study of programmable controllers as they relate to the control of automated systems. Included is a study of the memory system and I/O interaction, specifications, wiring, logic concepts, number systems and codes, the instruction set, ladder logic programming and application problems.
Prerequisite: ELET 1212.
This is a 45 hour course and runs for 7 ½ wks. Course Dates & Prices TBA

ENGL 2343 – Business Communication I
Focuses on effective methods of business communication, including various letters, memoranda, resumes, documented researched reports, oral presentations, and PowerPoint presentations. Gives attention to audience analysis and business writing style and usage.
This is a 45 hour course and runs for 7 ½ wks. Course Dates & Prices TBA
Program Overview

The Automated Manufacturing/Engineering Tech Program offers a sequence of courses which are designed to prepare individuals for employment in various manufacturing environments. Courses are offered two evenings per week from 6:00 - 9:00pm. While individuals are encouraged to complete the entire sequence of courses and earn the AMET one or two year certificate, a course may be taken as an individual stand alone course.

1st year AMET Certificate

**PRCT 1133 - Safety, Health & Work Practices**
Introduction to occupational safety, health and environmental practices and associated equipment including: safety mindset and attitude; personal safety equipment; general safety policies and procedures; hazards communications; HAZWOPER/emergency response; first aid and CPR; industrial hygiene; exposure monitoring; and environmental compliance. This course will give students an overview of various governmental regulations mandated by OSHA, EPA, SARA, RCRA, DOT, NFPA, etc.

Additionally, this course covers Fork Lift Safety and Operation.

This is a 45 hour course and runs for 7 ½ wks.
9/9 – 10/28 $299

**ELET 1303 - DC Circuit Analysis**
An introductory course in basic electricity including electrical properties of materials, units, basic electrical laws and theorems, and electrical circuits and components. This course also introduces the student to electronic design software used in troubleshooting circuits.

This is a 45 hour course and runs for 7 ½ wks.
10/30 – 12/18 $299

**ELET 1313 - AC Circuit Analysis**
Introduction to alternating current electricity. A study of the characteristics of sine wave including the amplitude, frequency, period, and phase relationships; analyzing AC circuits by use of AC network theorems, resonant circuits and filter circuits. This course will also include basic electric motors and circuit control components.

This is a 45 hour course and runs for 7 ½ wks.
1/13 – 3/3 $299

**ELET 1223 - Hydraulics and Pneumatics**
A study of hydraulic and pneumatic systems as it relates to fluids, energy and power, pumps, actuators, control devices, flow distribution, and industrial applications.

This is a 45 hour course and runs for 7 ½ wks.
3/10 – 5/5 $299

**PRCT 1123 - Introduction to Process Technology**
Introduction to process operations in the petrochemical industry including: operator roles, responsibilities and expectations; plant terminology; safety and environmental responsibilities; applied organic and inorganic chemistry; applied physics; plant equipment, utility systems; product handling; flow diagrams; general process overviews; basics of process control; and plan organizations. This course will expose students to an overview of the Process Technology.

This is a 45 hour course and runs for 7 ½ wks.
5/12 – 6/30 $299