

Community College of Allegheny County

Mechatronic Technology Certificate Program

The Mechatronics Technology Program provides skills and knowledge in three major areas: mechanical engineering, electrical/electronic engineering and control systems. This technology training is relevant to several industries including the Marcellus Shale natural gas industry, energy, manufacturing and supply chain and logistics. Students who pursue this degree will benefit from a technical core set of courses that combine industry-recognized certification and quality college education.



Upon successful completion of the program, the graduate will:

1. Use quality and safety standards necessary for the operating, maintaining and repairing of industrial equipment.
2. Program, configure and operate automated, industrial equipment for machining, assembly and production.
3. Troubleshoot and repair equipment applying basic and preventative maintenance techniques.
4. Apply basic computational skills in measurement and analysis of technical formulas and schematics.
5. Utilize technical and organizational skills to effectively engage with team members and a diverse customer base.

Eligible for PELL and PHEAA Funding

Class size is limited. To register or for questions, please call the Keystone Community Education Council at 814-677-4427.

Certificate Requirements – First Semester

Course	Credits
MEC 100 - Mechatronics Safety and Quality	3
MEC 102 - Mechatronics Industrial Processes	3
MEC 103 - Fundamentals of Electricity	3
MEC 104 - Introduction to Mechanical Systems	3
MEC 150 - Fluid Power	3
Total Credits:	15

Certificate Requirements – Second Semester

Course	Credits
MEC 106 - Industrial Power Systems	3
MEC 108 - Programmable Logic Controllers 1	3
MEC 110 - Digital Electronics	3
MEC 112 - Introduction to Robotics	3
MEC 156 - Motors and Motor Controls	3
Total Credits:	15

Course Total Credits: 30



The Welding Technology Certificate Program is being offered through a partnership with the Keystone Community Education Council, the Community College of Allegheny County, your local technical center and the Appalachian Regional Commission