



# MECHATRONICS

## Advanced Manufacturing Training

### Benefits of the Program

- Regional employment opportunities are in high demand in manufacturing, energy generation and power distribution, health care and the military.
- Students may build a Career Pathway of stackable credentials that are industry-recognized and nationally endorsed.
- Mechatronics program students may earn up to 17 credits towards an associate's degree.
- Tuition is FREE to those who qualify.



**The Community College of Allegheny County, through a US Department of Labor Trade Adjustment Assistance Community College and Career Training (TAACCCT) grant, will be offering training programs in Advanced Manufacturing to build a Mechatronics Career Pathway.**

### **Mechatronics Training: What is It?**

Mechatronics is a new and exciting engineering field that integrates mechanical and electronic components with hydraulics, pneumatics, electronics and computer controls in the manufacture of industrial products and processes. This program uses the Advanced Manufacturing/Integrated Systems Technology (AM/IST) curriculum, which is endorsed statewide through the Industrial Maintenance Training Center of Pennsylvania and by the National Association of Manufacturers.

### **What Would You Do as a Mechatronics Technician?**

People with mechatronics training are often called “gold collar” workers because they are essential to operations, or worth their weight in gold to their employer. They are multi-skilled technicians capable of solving the many complex problems of manufacturing automation.

Mechatronics moves beyond simply cross-training employees, as the discipline recognizes that individuals need to be equally trained in four areas: mechanical, electrical, process control/programmable logic controllers (PLC) and computer software and hardware to maintain, troubleshoot and repair highly sophisticated, automated systems.



## Location

CCAC will offer all Mechatronics program training at its West Hills Center, featuring state-of-the-art equipment and a convenient location with free parking.

**Community College of Allegheny County**  
West Hills Center  
1000 McKee Road  
Oakdale, PA 15071  
412.788.7500

## For More Information

For more information, visit [www.ccac.edu](http://www.ccac.edu), search keyword “*mechatronics*.”

For driving directions to CCAC–West Hills Center, visit [www.ccac.edu](http://www.ccac.edu), search keywords “*West Hills Center*.”

## Contact Information

Sylvia Elsayed  
Program Manager  
[mechatronics@ccac.edu](mailto:mechatronics@ccac.edu)  
412.788.7534

Michael Cunningham  
Career Coach  
412.788.7396



## The CCAC Mechatronics Program

The CCAC Mechatronics Program is a non-credit program currently offered in three levels. Students must complete each course in sequence to progress to the next level. Each level consists of approximately 360-hours of training and may be offered in two sessions, daytime and evening, over a 25–30 week period.

**Courses begin regularly. Please visit [www.ccac.edu](http://www.ccac.edu), search keyword “*mechatronics*” for start dates and other important information.**

## Requirements

Each prospective student must register to take the Test of Adult Basic Education (TABE) placement test to determine his or her level of math and reading. An 11th-grade level of mathematics is required for acceptance into the program. In addition to the TABE, students must also complete a Mechanical Aptitude Test, participate in an interview and complete two outside assignments.

Those who score between seventh and 11th-grade math levels will have the option of participating in a 10-week remediation period, to include study and tutoring time, before being retested. Individuals who score below a seventh-grade math level will not be admitted to the program at this time.

Students testing below an 11th-grade math level may discuss remediation scheduling with the career coach. After successfully meeting Mechatronics program entrance requirements, students will be registered in the program.

## What is an 11th-grade Math Level?

The individual can perform all basic math functions with whole numbers, decimals and fractions; can solve simple algebraic equations, and develop and interpret tables and graphs; and can use math in business transactions.

This workforce solution was funded by a grant awarded by the U.S. Department of Labor under the Trade Adjustment Assistance Community College and Career Training (TAACCT) program. The solution was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. This program is funded in whole or in part by the U.S. Department of Labor Employment and Training Administration.



This work is licensed under a Creative Commons  
CC BY 3.0 Unported License.  
<http://creativecommons.org/licenses/by/3.0/>

## CCAC Nondiscrimination Policy

The Community College of Allegheny County (CCAC) and its Board of Trustees are committed to the principle of equal opportunity in education and employment for all. CCAC does not discriminate based upon race, color, religion, national origin, ancestry or place of birth, sex, gender identity or expression, sexual orientation, disability, use of a guide or support animal due to disability, marital status, familial status, genetic information, veteran status or age. Creating, supporting and sustaining a diverse community will prepare our students to be effective in the world outside of CCAC.

Questions may be addressed to [diversity@ccac.edu](mailto:diversity@ccac.edu).

Notifications of nondiscrimination and contact information can be found at [www.ccac.edu](http://www.ccac.edu), search keywords “*notifications of nondiscrimination*.”

Individuals with disabilities who are requesting accommodations should contact the Supportive Services for Students with Disabilities office at 412.469.6215. This publication is available in alternate formats; contact 412.469.6215.