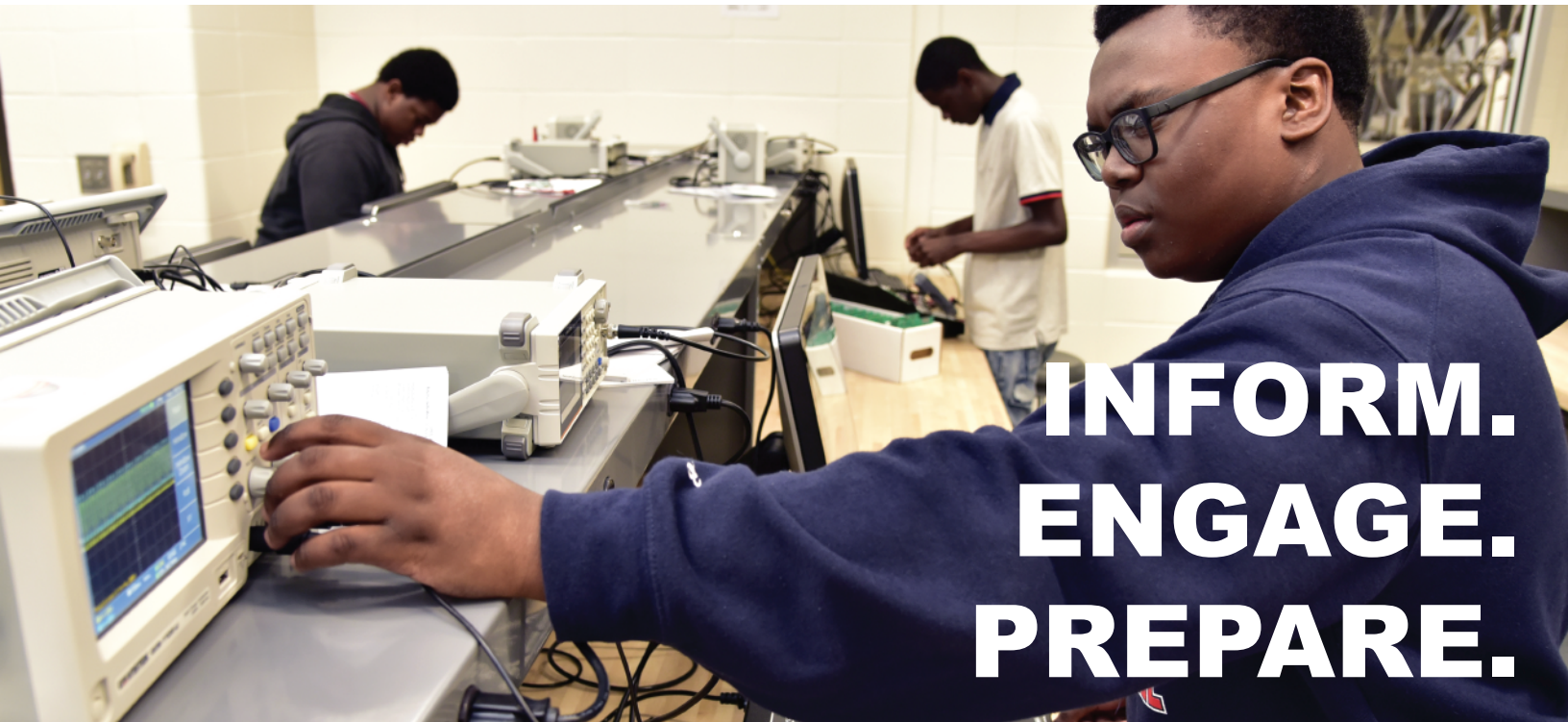


Mechatronics

Electronics Technician Association: Basic Systems
Technician Certification



9TH & 10TH GRADE

PATHWAY OVERVIEW

Having an interest in technology involving electricity, electronics, and mechanics is a strong indication this pathway would be a great choice. As with most technical career fields, good math and communication skills are essential. Job demand is very high for those with these skills, and the 4C Academy has partnered with several employers to provide internships that could lead to a long-term, high-paying career beyond high school. This pathway can also provide a strong foundation for post-secondary education, both technical college and university. Many mechatronics students benefit from improved testing scores on the United States' Armed Services Vocational Aptitude Battery (ASVAB) test.

The focus of this program is to establish a practical and functional understanding of the basic operation of systems used in manufacturing, communications, climate control (HVAC), transportation, military, logistics, etc. Logical systematic troubleshooting concepts are layered throughout the course structure from beginning to end.

Course 1: Introduction to Mechatronics

Course 2: Electrical Theory & Electromechanical

Course 3: Systems Control, Implementation, and Troubleshooting

11TH & 12TH GRADE

INDUSTRY CERTIFICATIONS

Basic System Technician certification from the Electronics Technician Association (ETA) is available to those who have completed the pathway and the certification preparatory courses. All curriculum/instruction/facilities/testing are officially approved by ETA.

Basic System Technician preparatory courses will cover advanced concepts in systems implementation, control, and troubleshooting.

Internships with industry partners will be the last and most important phase, possibly leading to viable long-term employment.

REAL WORLD OPPORTUNITY

- Entry-level employment in tech-related industry.
- Improved scores on Armed Services Vocational Aptitude Battery (ASVAB) test.
- Improved performance for related post-secondary technical college and university courses.

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