

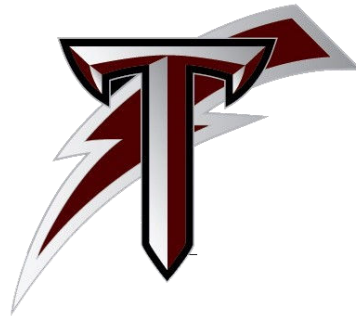
The Electronics Program will prepare you for college and your career after high school. Consider becoming a completer in the Electronics Program by enrolling in a total of three courses, or earn a Workforce Seal by enrolling in all four courses.



For more information,
please contact:

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*Let's
go,
Titans!*

Gadsden City High School



*Electronics
Industrial Robotics
and Automation
Program*



Courses Offered



Introduction to Manufacturing

focuses on the fundamental knowledge and skills needed in the manufacturing industry. Emphasis is placed on job safety, use of manufacturing materials, primary manufacturing processes, secondary manufacturing processes, and manufacturing systems. Upon successful completion of this course, students perform basic tasks related to the manufacturing industry.

Digital Electronics introduces students to digital fundamentals and number systems. Emphasis is placed on characteristics of digital circuit signals, logic gates, logic devices, and digital circuits.

Introduction to Robotics is designed to introduce students to the fundamentals of robotics. The course emphasizes fundamentals of electrical current, digital circuits, electronic control systems, and the design and operation of robotic systems.

Robotics Applications standards

mandate the design and construction of a robotic system with peripheral devices, including the design and creation of mechatronic systems and use of automated tooling.



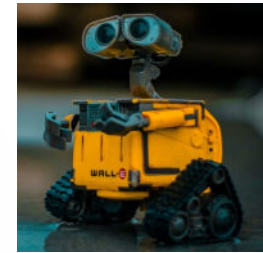
Foundational Standards

1. Incorporate safety procedures in handling, operating, and maintaining tools and machinery; handling materials; utilizing personal protective equipment; maintaining a safe work area; and handling hazardous materials and forces.
2. Demonstrate effective workplace and employability skills, including communication, awareness of diversity, positive work ethic, problem-solving, time management, and teamwork.
3. Explore the range of careers available in the field and investigate their educational requirements, and demonstrate job-seeking skills including resume-writing and interviewing.
4. Advocate and practice safe, legal, responsible, and ethical use of information and technology tools specific to the industry pathway.

5. Participate in a Career and Technical Student Organization (CTSO) to increase knowledge and skills and to enhance leadership and teamwork.

Credentialing Options

Students who meet the requirements can take the DC Basics and AC Basics exams sponsored by Electronics Technicians Association (ETA) International.



Career Opportunities

- Aerospace Engineer
- Automation Engineer
- Electromechanical Technician
- Equipment Technician
- Instrumentation Technician
- Mechanical/Electrical Engineer
- Prosthetist
- Robotics Technician
- Solar and Network Technician

