



The Harrison County Academy of Aviation Technology (HCAAT), housed at Bridgeport High School, uses a hands-on, project-based instructional approach to introduce students to the many different careers available in the aviation industry.



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HARRISON ACADEMY  
County OF AVIATION  
TECHNOLOGY

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HARRISON ACADEMY  
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**Your  
Future in  
Aviation  
Technology  
Begins  
Here**

**In the Harrison County Academy of Aviation Technology (HCAAT), students will be introduced to the following activities and machinery:**

- Flight simulators
- 3-D Printers
- CNC Laser Cutters
- Wind Tunnel Technology
- Drones (UAS)
- Siemens Solid Edge CAD Software
- Aviation Fabrication Tools
- Various Hand Tools
- And More

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**Course Sequence:**

**Course I-** Fundamentals of Aerospace Technology

**Course II-** Advanced Aerospace Technology

**Course III-** Aeronautics Engineering Applications

**Course IV-** Astronautics Engineering Applications



**The Primary Goal**

The primary goal of the HCAAT program is for students to become “career-ready” for a variety of aviation employment opportunities upon graduating from high school.

The students will have the fundamental skills necessary to acquire:

- Employment
- Certifications
- Two-Year Degrees
- Four-Year Degrees

The Harrison County Academy of Aviation Technology utilizes an Advanced Career curriculum, which provides students with a variety of aviation industry knowledge and skills.

**Project-Based Learning**

Students will be introduced to a series of industry-based problems. The students will utilize the Engineering Design Process (EDP) to begin their research, design and build projects, and present their projects in a formal setting.

**The Classroom**



The classroom is designed to meet the needs of a variety of learners through different instructional delivery methods, such as hands-on projects, the Engineering Design Process (EDP), CAD design stations, and industry safety standards.

**The Simulated Workplace**

This Simulated Workplace exposes students to the expectations of all business and industry working environments: attendance, safety, drug screening, OSHA 10 requirements, collaboration, attention to details, and production.

