

CENTRAL ACADEMY OF TECHNOLOGY AND ARTS

2024-2025 School Profile

Mission Statement

The mission of Central Academy of Technology & Arts is to prepare students to be informed, capable, and compassionate global citizens by providing an environment that fosters respect, confidence, growth, curiosity, creativity, critical thought, and knowledge.

Community

Located in the Charlotte region, Union County Public Schools is the sixth-largest district in North Carolina that serves approximately 42,000 students. UCPS offers more than 44 pathways and 22 academies through Career and Technical Education. The district ranks number two in the state in overall proficiency at 69.3 percent, and boasts a 92.3 percent graduation rate.

School

Central Academy of Technology and Arts (CATA) is a comprehensive magnet high school enrolling **887** students in grades 9–12. We offer six academies: Information Systems, Pre-Engineering, Medical Science, Performing Arts, Transportation, and International Baccalaureate. Ninth and tenth graders from across the district apply for a spot in one of the academies each year through a lottery process. Once accepted, students take one to three courses in their academy subject area each year in addition to their core curriculum and graduation requirements.

Principal

Kevin Beals

Assistant Principals

Thomas Stewart

Dr. Michelle Newnam

Counselors

Ashley Cole, Dept. Chair

Sarah Goodwin

Stephanie Graham

600 Brewer Dr.

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CEEB Code: 342650

Class of 2024 Fast Facts

179 Students

62% attending 4-year school

28% attending 2-year school

7% entering the workforce

1% entering the military

ACT

98% of seniors participated

Average Composite: 23

SAT

50% of seniors participated

Average Math: 576

Average Reading/Writing: 599

Average Total: 1176



OUR ACADEMIES

Information Systems

This academy has three pathways: Computer Engineering, Cyber Security, and Software Development & Game Design. In Computer Engineering students learn about building computers, configuring networks and routing.

In Software & Game Design students will focus on computer programming, visualization tools, and game design. In Cyber Security students learn about ethics in technology as well as trends in the growing industry.

Performing Arts

This academy has three pathways; Dance, Music Production & Recording Arts, and Theatre. All pathways are exposed to the many facets of a successful performance, history, theory, and techniques. The MPRA pathway creates a solid foundation in musicianship and technology. Students will hone their current skills through a variety of courses that will create a well-rounded performer.

Pre-Engineering

Instruction is offered in engineering design through 3-D software, electronics, and computer integrated manufacturing. These are connected together through engineering principles connecting math, science, and technology. The majority of course are delivered through the Project Lead the Way curricula.

Medical Sciences

The goal of the Project Lead the Way program is to provide a sequence of courses all aligned with appropriate national learning standards, which follows a proven hands-on, real-world, problem-solving approach to learning.

Students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology, and public health. The students explore the prevention, diagnosis, and treatment of disease.

International Baccalaureate

The International Baccalaureate Programme is a global leader in international education—developing inquiring, knowledgeable, confident, and caring young people. This academy empowers school-aged students to take ownership in their own learning and help them develop future-ready skills to make a difference and thrive in a world that changes fast.

Transportation Systems

This academy has two pathways; Automotive Technology and Collision Repair. The Automotive Technology pathway provides instruction on brakes, steering, suspension, engine, and electronics. The Collision Repair pathway offers auto body reconstruction and frame straightening. The curriculum allows students to receive hands-on industry-recommended training. Strong academic background and technical application allow for a seamless transition from high school to post-secondary training or high-tech automotive careers.

ACADEMICS

AP Courses

English

AP English Language and Composition
AP English Literature and Composition

Math

AP Calculus AB
AP Calculus BC
AP Precalculus
AP Statistics

Science

AP Biology
AP Environmental Science
AP Chemistry
AP Physics 1: Algebra Based
AP Physics C: Electricity and Magnetism
AP Physics C: Mechanics

Social Studies

AP Government
AP Psychology
AP US History
AP World History

Electives

AP Computer Science A
AP Computer Science Principles
AP Studio Art

International Baccalaureate Courses

IB Theory of Knowledge
IB Language A English HL
IB Language B French SL
IB Language B Spanish SL
IB Math Applications and Interpretations SL
IB Biology SL
IB History of the Americas HL
IB Visual Arts HL

Grading Scale

100-90 (A)
89-80 (B)
79-70 (C)
69-60 (D)
AUD, F, FF, P, WP, WF

Non-Weighted Point Value

4.0
3.0
2.0
1.0
0.0

Academic Level of Course

College Prep
Honors
Advanced Placement (AP)

Additional Quality Points for Weighted GPA

No additional points
.5 additional points
1 additional point

Curriculum

4x4 block schedule
IB courses are on a
A/B day yearlong
schedule
80-minute classes

Maximum 1 credit
awarded per class

22 credits required
for graduation

Rank is based on
weighted GPA

Rank is calculated at
the end of each
semester