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Principal Kevin Beals Assistant Principals Thomas Stewart Dr. Michelle Newnam

CENTRAL ACADEMY OF TECHNOLOGY AND ARTS

SCHOOL PROFILE FOR 2022-2023

SCHOOL COUNSELING STAFF

Ashley Cole - Dance, Theatre, & Pre-Engineering Sarah Goodwin - Information Systems & MPRA Stephanie Graham - Medical, Transportation, International Academy Tammy Tweed - Secretary

MISSION STATEMENT

The mission of Central Academy of Technology and 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.

CENTRAL ACADEMY OF TECHNOLOGY AND ARTS opened Fall 2006 and is a comprehensive magnet high school of academies. Each year, students rising in 9th and 10th grade apply throughout the Union County Public School System for a spot in one of the academy programs. Each student applying must be on grade level using North Carolina End of Grade standards in reading and math. The 9th grade students are selected based on a lottery for all academies except Dance, Theatre, and MPRA; those three academies will participate in an audition process. The 10th grade students are selected on a first come, first serve basis. The 10th grade students applying to the Performing Arts Academy also participate in the audition process.

INFORMATION SYSTEMS ACADEMY: 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. The solid preparation that is offered prepares our high school graduates to achieve any information systems career goal.	PRE-ENGINEERING ACADEMY: 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.
PERFORMING ARTS ACADEMY: Programming is offered in Dance, Theatre, and Music Production and Recording Arts (MPRA). 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.	MEDICAL SCIENCES ACADEMY: 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.

TRANSPORTATION SYSTEMS ACADEMY: 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.

INTERNATIONAL ACADEMY: Central Academy of Technology & Arts is a candidate school* for the Diploma Program. This school is pursuing authorization as an IB World School. IB World Schools share a common philosophy- a commitment to high-quality, challenging, international education- that we believe is important for our students. Only schools authorized by the IB Organization can offer any of its four academic programs: the Primary Years Program (PYP), the Middle Years Program (MYP), the Diploma Program (DP), or the Career-related Program (CP). Candidate status gives no guarantee that authorization will be granted.

COLLEGE PREPATORY ENVIRONMENT: All students are assigned the Future Ready course of study.

DIPLOMA REQUIREMENTS: Students must graduate with a minimum of 28 Carnegie credit units.

SCHEDULE: The CATA curriculum is offered on a 4x4 block schedule for all courses. All students receive daily instruction in four 90-minute classes; earning a maximum of one credit per course.

GRADING SCALE: Union County Public Schools requires the following grading scale/point values. Additional quality points are given for a passing grade (60-100) for specific courses based on the course's academic level.

Numeric Grade	Non-Weighted Point Value
90-100	4.0
89-80	3.0
79-70	2.0
69-60	1.0
AUD, F, FF, P, WF, WP	0.0

Academic Level of Course	Additional Quality Points Given for a Weighted GPA
Basic	No additional points
College Prep	No additional points
Honors	.5 additional points
Advanced Placement (AP)	1 additional point

HONORS AND COLLEGE LEVEL COURSES OFFERED AT CATA

<u>English</u>	Anatomy & Physiology	Game Art Design	Theatre III, IV
English I, II, III, IV	Social Studies	Adobe Visual Design	Dance III, IV
Advanced Inquiry	American History	Digital Design & Animation I, II	Robotics I, II
Creative Writing	Civic Literacy	Adobe Video Design	Advanced Manufacturing I, II
Mythology	American History II	Adv. Game Art Design	PLTW
Math	Psychology/Sociology	Microsoft Excel	
Math I, II, III, IV	World History	Network Engineering Tech I, II, III	Human Body Systems
Discrete Math	Remember the Holocaust	Computer Engineering Tech II	Biomedical Innovation
Pre-Calculus	Foreign Language	Python Programming I, II	Medical Intervention
Science	Spanish III	Health Science I, II	Principles of Biomedical Science
Chemistry	French I, II	Symphonic Band III, IV	Introduction to Engineering
Biology	Electives	Chorus III, IV	Electronic Design and Development
	Sports Medicine I	Music Specialization	Computer Integrated Manufacturing
Earth Science	Weightlifting	Audio Engineering I	Principles of Engineering
Physics	Counseling and Mental Health		Aerospace

AP Level course content, pace, and academic rigor are college-level as adopted by the College Board and prepares students to take the AP examinations which may lead to college credit. Most AP classes are yearlong and scheduling conflicts with required academy courses often preclude more than two AP classes per year. In addition, scheduling conflicts with required academy courses can prevent students from taking more than two levels of a World Language.

Advanced Placement (AP) Courses

English	Social Studies
AP English Language and Composition	AP Government
AP English Literature and Composition	AP U.S. History
Math	AP Psychology
AP Calculus AB	<u>Electives</u>
AP Calculus BC	AP Computer Science A
Science	AP Computer Science Principles
AP Biology	AP Studio Art
AP Environmental Science	
AP Chemistry	
AP Physics 1: Algebra Based	
AP Physics C: Electricity and Magnetism	
AP Physics C: Mechanics	

STUDENT ORANIZATIONS

Battle of the Books	Maker Club	Yearbook Club
BETA Club	Minority Student Union	
Canine Club	National Honor Society	
National English Honor Society	National Honor Society of Dance Arts	
Cougars for Christ	National Spanish Honor Society	
Creative Writing	Rho Kappa	
Environmental Club	Robotics Club	
Esports	Science Olympiad	
Fashion Club	Skills USA	
Fellowship of Christian Athletes	Society of Women Engineers	
Gay-Straight Alliance	Speech and Debate Club	
Hands Helping Others	Student Council	
HOSA	Travel Club	
International Thespian Society	Tri-M Music Honor Society	
Knitting for Good	World Language Club	