Maxwell High School of Technology prepares students to enter the service industry or a post-secondary institution by providing Career, Technical and Agricultural Education (CTAE) training that encompasses valuable academic, technical, and employability skills. Students from all GCPS high schools may obtain three concentrated units of credit in a Georgia Career Pathway by successfully completing a Maxwell program. In addition, Maxwell offers academic courses for graduation credit in English Language Arts, Math, and Science electives embedded within its specialized CTAE programs.

Embedded credit is credit earned in an academic area of study (English Language Arts, Math or Science) while enrolled in a CTAE program of study. For example, the Cosmetology program offers a science elective credit in Anatomy & Physiology because the Cosmetology coursework is heavily embedded (filled with) the science of Anatomy & Physiology. Another example includes the Law Enforcement Services program which offers a science elective credit in Forensic Science because the Law Enforcement Services coursework is heavily embedded (filled with) the science of forensics. Every Maxwell CTAE program offers embedded credit in one of the academic areas of English Language Arts, Math or Science, as well as technical education credits for CTAE coursework.

Dual Enrollment opportunities with Gwinnett Technical College (GTC) are available in the following Maxwell High School programs: Culinary Arts, Early Childhood Education, Law Enforcement Services, Maintenance & Light Repair, Metals, Personal Care Services, and Therapeutic Services. Eligible students earn both high school and college credit while enrolled in one of these programs. Tuition to GTC is paid 90% through the HOPE Grant, and GTC pays the remaining 10%. The student's HOPE Scholarship is not impacted in any way for this dual enrollment opportunity.

**MISSION**

The mission of Maxwell High School of Technology is founded in educational research on increased student achievement, improved student graduation rates, and sustained student success in post-high school experiences. The research-based initiatives that Maxwell undertakes include, but are not limited to, awarding of credit based on demonstrated mastery rather than instructional hours, providing a seamless transition for students to college and/or career, and assuring that the faculty represents the highest caliber of professionals with real-life experiences that can be transferred directly to student learning.

**ARCHITECTURAL, DRAWING & DESIGN *Language Arts**

This program will expose students to blueprint reading, measuring, sketching, and drawing through engineering, architecture, drafting, and design processes. All drawing is computer-based using industry-standard software programs including AutoCAD, AutoCAD Architecture, and Revit Architecture.

**COLLISION REPAIR I *Math**

**COLLISION REPAIR II *Science** (Note: Collision Repair II is a year-long program and requires successful completion of Collision Repair I)

These industry-certified programs will teach students how to perform automotive vehicle body repair and refinishing skills such as panel replacement, metal straightening, welding and automotive painting. Students will bring damaged vehicle components to their original condition using state-of-the-art equipment and technology in the automotive lab.

**CONSTRUCTION (Carpentry) *Math**

Simulating real construction conditions, students will gain skills in carpentry, plumbing, masonry, and electrical wiring with emphasis on safety, tool use and care, and blueprint reading.

**CULINARY ARTS *Science**

Students will learn the essential skills of professional cooking from an industry expert, including food preparation, knife skills, dining room service, menu development, restaurant accounting, and teamwork in the kitchen. Students will study many branches of science and the rapid advances in technology used in the food industry to expand and improve the food supply; they will evaluate the effects of processing, preparation, and storage on quality & safety, wholesomeness, and nutritive value of foods.
EARLY CHILDHOOD EDUCATION *Science
Lesson planning, teaching skills, nutrition, and menu planning are learned in the classroom and applied when students begin working with children three to five years of age in Maxwell’s Early Childhood Lab. (Note: The State of Georgia requires that all employees in Georgia child care facilities [i.e., students enrolled in Maxwell’s Early Childhood Education Program (ECE)] undergo a national criminal background check. Because Maxwell falls under the definition of a child care facility, students enrolled in ECE will be subject to the rule. The cost of the background check will be covered by the ECE program for those students accepted into the program.)

ELECTRONICS *Science
This class will prepare students for a career using electronics skills, or for further education in the modern field of electronics. Students will build circuits, motors and amplifiers to become familiar with producing, testing, troubleshooting, and documenting electronics projects.

FIRE AND EMERGENCY SERVICES (Firefighting) *Science
This course addresses the essential components needed for fire and emergency services: firefighting, emergency medical responder, and public safety communications. Students will explore career options, interagency communications, medical services, and basic firefighting services.

FLIGHT OPERATIONS *Science
Students will build a solid knowledge base in the history of aviation, the principles of flight and navigation, the aerospace community, and aviation meteorology. Leadership development activities through the Civil Air Patrol (CAP), the Experimental Aircraft Association (EAA), and industry mentorship will prepare students with a competitive edge for the global marketplace.

GRAPHIC DESIGN *Language Arts
Using state-of-the-art computers and digital imaging equipment, students will learn cutting edge software applications such as Adobe Photoshop, Illustrator, InDesign, Flash and Dreamweaver. Instruction is designed to give students maximum opportunity to learn image generation and manipulation for such projects as book covers and magazines, CD/video game art, advertising campaigns, posters, and websites.

HVACR (Heating, Ventilation, Air Conditioning, and Refrigeration) - Science
This program prepares students for a career in residential and commercial heating, ventilations, air conditioning, and refrigeration repair.

INTERIORS, FASHION & TEXTILES (Interior Design) *Language Arts
This program will teach students the fundamentals of residential and commercial interior design. Students will use industry standard software and tools to prepare and present designs that will include appropriate furnishings, fixtures, equipment and textile selections. Students will be equipped with up-to-date knowledge that will make them competitive candidates as they pursue post-secondary options and internship positions.

LAW ENFORCEMENT SERVICES *Science
Focusing on the causes, prevention, investigation, and prosecution of crime, the Law Enforcement Services program allows students to explore the role and structure of government, the rights and responsibilities of citizens and police, the criminal justice system, and courts and corrections.

MAINTENANCE & LIGHT REPAIR (Automotive Services) *Science
Classroom labs model a professional automotive shop setting that simulates an industry-standard service facility. Students will perform automotive problem diagnosis, service, and repair in four basic areas: brakes, electrical/electronic systems, steering and suspension, and engine performance.

METALS (Welding) *Math
Students will gain knowledge of industrial and construction welding, become proficient utilizing a variety of welding techniques, learn to read blueprints, interpret welding drawings and sketches, learn safety rules, and be eligible to earn certification in welding technologies.

PERSONAL CARE SERVICES (Cosmetology) *Science
This program will help shape students’ ability to create and design using hair, skin and nails as a creative medium. In a true-to-life salon environment, students will learn theories and techniques in hair cutting and styling, manicures, perms, facials, as well as record keeping and business practices for aspiring entrepreneurs.

PROGRAMMING (Apps & Game Design) *Language Arts
This course will explore the use of computer technology to create games and mobile apps. This includes learning to use hardware, software, data structures and access, algorithms, programming techniques, an object-oriented language, computing environments, and the client/server system.

THERAPEUTIC SERVICES (ALLIED HEALTH & MEDICINE, EMERGENCY MEDICAL RESPONDER, OR PATIENT CARE) *Science
This industry certified class emphasizes anatomy and physiology, medical terminology, and medical skills that are utilized in all areas of healthcare. Specialization is available during the second semester in Allied Health, Emergency Medical Responder, or Patient Care. Clinical opportunities in hospitals and assisted living facilities are available for eligible students.