maintenance & light repair

graphic design
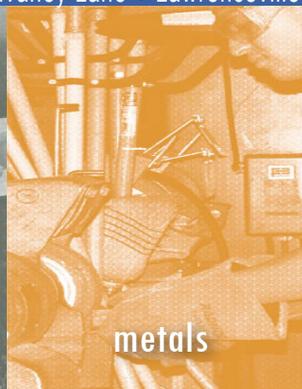
metals

flight operations
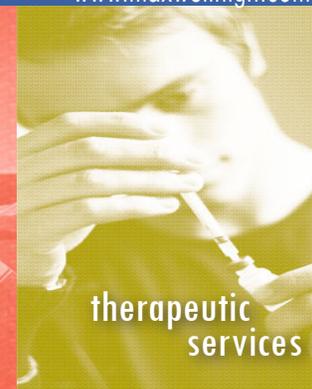
therapeutic services

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.

Most Maxwell programs offer **Board of Regents (BOR) credit** in one of the academic areas of English Language Arts, Math or Science, as well as technical credits for CTAE coursework.

Move on When Ready, MOWR (previously called dual enrollment) opportunities with Gwinnett Technical College (GTC) are available in the following Maxwell programs: Culinary Arts, Early Childhood Education, Law Enforcement Services, Maintenance & Light Repair, Metals, Personal Care Services, and Therapeutic Services. MOWR classes are taught at the high school by the current teacher during the regular scheduled class time. Eligible students earn both high school and college credit while enrolled in one of these programs. Tuition and mandatory fees are paid for by the funding of the MOWR program. The student's future Hope Scholarship award is not impacted by this MOWR opportunity.

Eligibility to apply/attend Maxwell High School of Technology *does not count high school credits earned in middle school*, and includes the following:

• current sophomore or junior, enrolled in a GCPS high school, with a minimum of 8 credits at the time of application

• minimum of 11 credits, including 2 units of LA, MA and SC, and be on track for graduation from high school in order to attend at the start of the school year

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.

MAXWELL PROGRAM DESCRIPTIONS

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 Collison 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)] to 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.

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) *Science

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.

personal care services
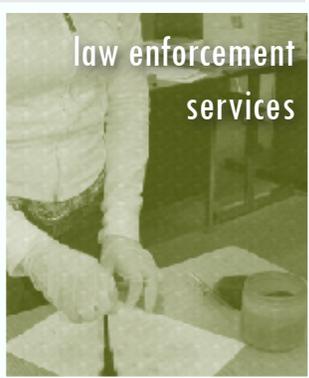
law enforcement services
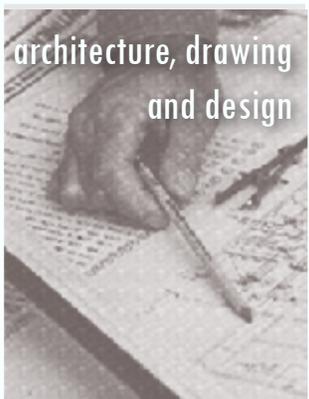
architecture, drawing and design

electronics

*Board of Regents