MAXWELL
HIGH SCHOOL OF TECHNOLOGY
PROGRAM INFORMATION

Maxwell High School of Technology provides half day [1] programs that prepare 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 Department of Education Career Pathway by successfully completing a Maxwell program. In addition, Maxwell offers embedded academic courses for graduation credit in language arts, math, and science.

[1] GCPS provides bus transportation from each high school to Maxwell.

Embedded credit is credit earned in an academic area of study (language arts, math, or science) while enrolled in a CTAE pathway program. For example, the Carpentry and HVACR programs offer a Board of Regents math credit because those programs are heavily embedded with the math skills contained in the Mathematics of Industry and Government course.

All Maxwell programs offer **Board of Regents (BOR) credit** in one of the academic areas of language arts, math, or science, as well as technical credits for CTAE coursework.

@ @MaxwellHighGCPS
f @MaxwellHighGCPS

MAXWELL BELL SCHEDULE:
AM SESSION | 7:45 AM - 10:15 AM
PM SESSION | 11:10 AM - 1:40 PM

ELIGIBILITY TO APPLY/ATTEND MAXWELL HIGH SCHOOL OF TECHNOLOGY

GCPS NON-ACADEMY HIGH SCHOOL STUDENTS:	GCPS ACADEMY HIGH SCHOOL STUDENTS:
Grade Levels:	
Current sophomore or junior	Current freshman, sophomore or junior
Eligibility to Apply:	
Currently enrolled in a GCPS **non-Academy** high school	Currently enrolled in a GCPS **Academy** high school
Minimum of **8 credits** at the time of application	Minimum of **4 credits** at the time of application
Eligibility to Attend:	
· Minimum of 11 credits · 2 units of: LA, MA & SC · On track for graduation from high school	· Minimum of 7 credits · 1 unit of: LA, MA & SC · On track for graduation from high school
Archer Brookwood Collins Hill Dacula Duluth Grayson Gwinnett Online McClure Health Science Mill Creek Mountain View Norcross North Gwinnett Parkview Paul Duke Peachtree Ridge Phoenix Seckinger	Berkmar Central Gwinnett Discovery Lanier Meadowcreek Shiloh South Gwinnett

" My experience at Maxwell has been a very unique and fun experience. The connections you make with people bring a lot of diverse thinking and... help you connect with your skills. "

Abagail Martinez-Ramierz
Allied Healthcare

MAXWELL PROGRAM DESCRIPTIONS

YOUR CAREER BEGINS HERE!

● PATHWAY
● EMBEDDED CREDIT

AP SCIENCE

ANIMATION AND DIGITAL MEDIA

In this program, students will learn the foundations of interactive digital media, 2D and 3D animation. Courses will explore traditional animating skills; interactive media; and digital design using image manipulation and graphic design development software along with making web animation with the HTML, CSS, and JavaScript languages. Students will also study techniques used for 3D modeling and animation.

COURSES: Introduction to Digital Media ▪ Principles & Concepts of Animation ▪ Advanced Animation, Game & App Design
＊AP Computer Science Principles

LANGUAGE ARTS

ARCHITECTURAL DRAWING & DESIGN

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.

COURSES: Introduction to Drafting & Design ▪ Architectural Drawing & Design I ▪ Architectural Drawing & Design II
＊Advanced Composition

MATH

COLLISION REPAIR I

This industry-certified program 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.

COURSES: Introduction to Collision Repair ▪ Painting & Refinishing I ▪ Painting & Refinishing II
＊Mathematics of Industry & Government

SCIENCE

CULINARY ARTS

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 and safety, wholesomeness, and nutritive value foods.

COURSES: Introduction to Culinary Arts ▪ Culinary Arts I ▪ Culinary Arts II
＊Food Science

SCIENCE

FLIGHT OPERATIONS

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.

COURSES: Fundamentals of Aerospace ▪ Flight Operations I ▪ Flight Operations II
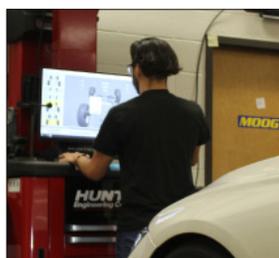**＊**Meteorology

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SCIENCE

GENERAL AUTOMOTIVE TECHNOLOGY

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.

COURSES: Automotive Technologies I ▪ Automotive Technologies II ▪ Automotive Technologies III
＊Energy & Power Technology

MAXWELL PROGRAM DESCRIPTIONS

● PATHWAY
● EMBEDDED CREDIT

ARTIFICIAL INTELLIGENCE

AP SCIENCE

The Artificial Intelligence Pathway is a three-course program that equips high school students with foundational and advanced AI skills through hands-on projects, preparing them for AI careers and real-world problem-solving.
COURSES: Foundations of Artificial Intelligence ▪ Artificial Intelligence Concepts ▪ Artificial Intelligence Applications
*AP Computer Science Principles

*Images generated with AI

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.
COURSES: Industry Fundamentals & Occupational Safety ▪ Introduction to Construction ▪ Carpentry I
*Mathematics of Industry & Government

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 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. 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.)
COURSES: Early Childhood Education I ▪ Early Childhood Education II ▪ Early Childhood Eduction Practicum
*Food for Life

FIRE & 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.
COURSES: Introduction to Law, Public Safety, Corrections & Security ▪ Essentials of Fire & Emergency Services ▪ Applications of Firefighting
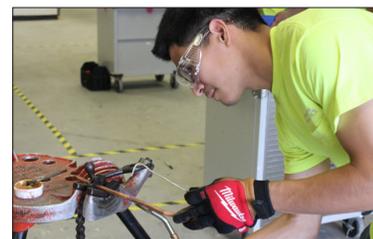***Human Anatomy and Physiology**

GRAPHIC DESIGN

LANGUAGE ARTS

Using industry-standard iMac computers and digital imaging equipment, students will master Adobe Illustrator, Photoshop, InDesign, Lightroom, and Dimension through hands-on projects in branding, social media ads, apparel design, print publications, and photography. Students will gain practical skills in image creation and manipulation. By the end of the course, students will be Adobe Certified in Illustrator through the Adobe Certified Professional exam.
COURSES: Introduction to Graphics & Design ▪ Graphic Design & Production ▪ Advanced Graphic Design
*Advanced Composition

HVACR
(HEATING, VENTILATION, AC & REFRIGERATION)

MATH

This program prepares students for a career in residential and commercial heating, ventilations, air conditioning, and refrigeration repair.
COURSES: Industry Fundamentals & Occupational Safety ▪ Introduction to HVACR Systems ▪ Heating, Ventilation, Air Conditioning & Refrigeration
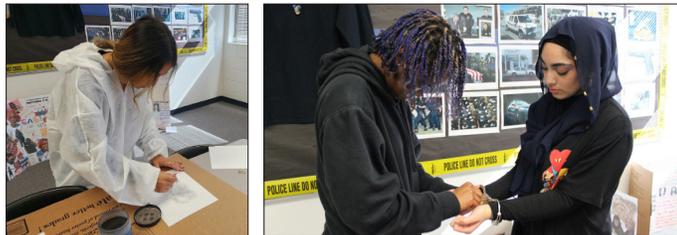***Mathematics of Industry & Government**

LAW ENFORCEMENT SERVICES/FORENSIC SCIENCE

*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.
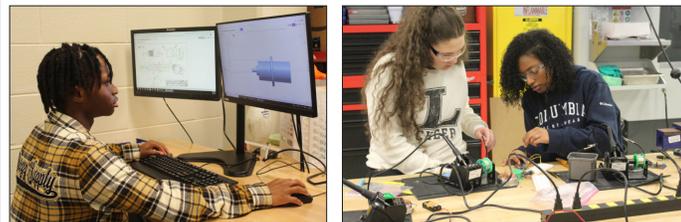
COURSES: Introduction to Law, Public Safety, Corrections & Security ▪ Criminal Justice Essentials
*Forensic Science & Criminal Investigation

PRECISION ENGINEERING (MANUFACTURING)

*SCIENCE

Manufacturing professionals design machinery, develop products, repair robots, work with software, and utilize green technology. This class is a student's chance to turn an interest in solving puzzles, robotics, repairing cars, building with Lego, and more, into a career. This program uses practical applications that may be learned in engineering classes at a student's home school.

COURSES: Foundations of Manufacturing & Materials Science ▪ Robotics & Automated Systems ▪ Production Enterprises
*Advanced AC & DC Circuits

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, and facials, as well as record keeping and business practices for entrepreneurs.

COURSES: Introduction to Personal Care Services ▪ Cosmetology Services II ▪ Cosmetology Services III
*Human Anatomy and Physiology

THERAPEUTIC SERVICES*

(ALLIED HEALTH AND MEDICINE)

*SCIENCE

This industry-certified program is designed to offer students the opportunity to become effective and efficient multi-skilled healthcare providers as they develop a working knowledge of various allied health opportunities. The program emphasizes anatomy and physiology, medical terminology, and medical skills utilized in all areas of healthcare.

COURSES: Introduction to Healthcare Science ▪ *Essentials of Healthcare ▪ Allied Health & Medicine
*Human Anatomy and Physiology

Due to state requirements, this program is only open to rising juniors and seniors.

THERAPEUTIC SERVICES*

(PATIENT CARE)

*SCIENCE

This industry-certified program is designed to provide interested students with entry level skills in careers that involve patient care. Upon completion of this course and its prerequisites, this program meets the curriculum content for the Certified Nurse Assistant. Students meeting all academic, attendance, and age requirements may sit for the Georgia Registry's Examination.

After being enrolled in Allied Healthcare, students will apply for the CNA program.

COURSES: Introduction to Healthcare Science ▪ *Essentials of Healthcare ▪ Patient Care Fundamentals
*Human Anatomy and Physiology

Due to state requirements, this program is only open to rising juniors and seniors.

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.

COURSES: Industry Fundamentals & Occupational Safety ▪ Introduction to Metals ▪ Welding I
*Mathematics of Industry & Government

CLUBS AND ACTIVITIES

FCCLA
Family, Career and Community Leaders of America offers members the opportunity to explore leadership skills and develop life skills.

HOSA
Future Health Professionals empowers members to become leaders in the global health community through education, collaborations, and experience.

NTHS
National Technical Honors Society exists to honor, recognize, and empower students and teachers in Career and Technical Education.

SKILLSUSA
Empowers students to become skilled professionals, career-ready leaders, and responsible community members.