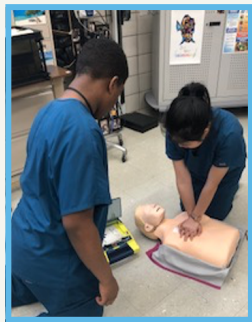# Western School of Technology and Environmental Science

Be a Western Tech Graduate or compete with one!

100 Kenwood Avenue, Catonsville, MD 21228
https://westernhs.bcps.org | 443.809.0840

Vision: Western Tech graduates will have the knowledge and skills to actively participate and contribute in a global society.
Mission: To provide students with challenging academic courses, cutting-edge technological career programs, and experiential environmental science programs to achieve success in higher education and in the workplace.

- Ranked 2nd in BCPS, 3rd in Maryland's magnet schools, 11th in the state of Maryland, and 87th in the nation's magnet schools, according to *US News and World Report* (August 2023)
- Ranked 2nd in BCPS, 2nd in the Baltimore metropolis, 6th in the state of Maryland, and 366th nationally out of 17,792 schools, according to *US News and World Report* (May 2023)
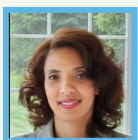- Named Sustainable Green School (2022)

Advanced Placement (AP) Courses

- AP Biology
- AP Calculus I/II AB
- AP Calculus III BC
- AP Computer Principles
- AP Computer Science A
- AP Economics (Micro and Macro)
- AP English Language and Composition
- AP English Literature and Composition
- AP Environmental Science
- AP French
- AP Government
- AP Human Geography
- AP Psychology
- AP Spanish Language
- AP Statistics
- AP Studio Art
- AP United States History
- AP World History

Senior Year Capstone Experience

- Paid or Unpaid Internship
- Apprenticeships (By program)
- Parallel/Dual Enrollment (college courses)
- Advanced Placement Classes at Western Tech
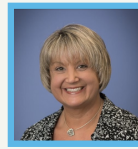
Team Western Tech

Ms. Ralph
Principal

Ms. Martinez
Assistant Principal

Ms. Harris
Assistant Principal

Ms. Birago
Magnet Coordinator

Western Tech Magnet Programs

Automotive Service Technology

- Automotive Service Excellence (ASE) Certification Program
- Electrical Systems
- Steering and Suspension
- Hydraulic Brakes
- Engine Performance

Academy of Health Professions

- Practical knowledge of anatomy and physiology
- Medical terminology, entry-level patient care skills, CPR, and first aid
- Hands-on internship opportunities working with "real patients" in a variety of medical settings

Cosmetology

- Studies bacteriology, infection control, and human anatomy and physiology
- Minimum of 1,500 hours required for Maryland State Board of Cosmetology Licensure
- Histology of the skin, hair removal, facials, and facial make-up
- Hair properties, hair design, cutting, and braiding

Culinary Arts and Restaurant Management

- Basic food production
- Baking and pastry
- Dining room management
- Cost control
- Work at school functions and community events to develop the required American Culinary Federation (ACF) certification skills

Environmental Science

- Intended for science-oriented and/or environmentally motivated students
- Interesting and challenging educational opportunities in ecology, zoology, and AP environmental science

Environmental Technology

- Pollution prevention and control
- Create and interpret maps/Geographic Information System (GIS)
- Center of Environmental Design and Land Stewardship
- Aquaculture management
- Greenhouse plant propagation

Graphic Print Communications Technology

- Adobe Illustrator
- Adobe Photoshop
- Adobe InDesign
- Digital photography and video
- Digital production equipment
- PrintED certification
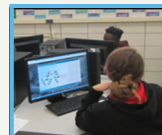- Adobe Certified Professional certification

Information Technology: Artificial Intelligence Pathway

- JavaScript programming
- Microsoft Office Specialist (MOS)
- Python Programming
- Advanced Placement (AP) JAVA
- Game and app programming

Information Technology: Networking Pathway

- Design, build, router, and switch computer networks
- Troubleshooting switch management and computer repair
- Installation of wireless LAN
- Voice and data network cabling and installation
- CompTIA A+ Certification
- CISCO Certified Service Technician Certification

Mechanical Construction-Plumbing

- Residential and commercial HVAC and Plumbing
- Blueprint reading
- First year apprenticeship with Associated Builders and Contractors (ABC)

Sports Science Academy

- For students interested in investigating careers in sports, health, fitness, and sports medicine
- Students will learn about paramedical biology, anatomy and physiology, sports medicine, sports psychology, weight training, and physical education recreational leadership

Serving All Students

All Western Tech Magnet Programs are viable options for ALL students, including students with disabilities. Special education services and Section 504 services are available at ALL public schools, including schools with magnet programs. BCPS transportation is made available if required by the student's educational plan (IEP or 504 Plan).