



DeKalb High School of Technology North Program Description



Automobile Maintenance & Light Repair Career Cluster: Transportation, Distribution & Logistics

Students in this pathway will learn the basic skills needed to gain employment as a maintenance and light repair technician. Students will be exposed to courses in automotive preventative maintenance and servicing and replacing brakes, and steering and suspension components. In addition, student will learn how to do general electrical system diagnosis, learn electrical theory, perform basic tests and determine necessary action. The hours completed in this pathway are aligned with ASE (Auto Service Excellence)/NATEF (National Automotive Technicians Education Foundation) standards and are a base for the entry-level technician. **CTSO: SkillsUSA Certifications:** Auto Service Excellence (ASE)-MLR, Valvoline Undercar, Schaeffer Clutch, NAPA Car Care, SP2 Safety

Computer Programming Career Cluster: Information Technology

This pathway is designed for high school students to strategize, design, and develop games and mobile and desktop applications that can be produced in the real world. Students will learn about life-cycles of project development and use models to develop applications. Attention will be placed on how user interfaces affect the usability and effectiveness of a game or an application. Various forms of technologies will be used to expose students to resources, software, and applications of programming. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. **CTSO:** FBLA, SkillsUSA **Certifications:** Java Certified Associate, Microsoft Technology Associate (MTA)

Computer Information Systems and Support Career Cluster: Information Technology

Students in this pathway develop the skills necessary for Supporting and servicing computers. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics - repair, installation and optimization of system software, Windows Operating system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade and maintain existing equipment and software, and troubleshoot then repair non-functioning computers and printers. This course prepares students for the Comptia A+ Certification. **CTSO: SkillsUSA Certifications:** Comptia A+, Microsoft Office Specialist (MOS)

Construction (Carpentry, Electrical, Masonry, Plumbing) Career Cluster: Architecture & Construction

This pathway is designed to prepare students for pursuit of Carpentry, Electrical, Masonry, and Plumbing careers in construction. Students will explore how the various crafts have influenced and been influenced by history. This pathway also provides basic skills and knowledge needed to apply Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) safety concepts and practices relating to the specified trades. The student will also learn and apply knowledge of the care and safe use of hand and power tools as related to each trade. In addition, students will be introduced to and develop skills to differentiate between blueprints related to each ..., hair and scalp structures, and hair disorders. Students also learn the laws, rules, regulations and how they

govern the cosmetology industry. There is emphasis on the importance of salon management and the knowledge and skills necessary to build a successful business. **CTSO: SkillsUSA** **Certifications:** Up to 450 Licensure Hours upon successful completion of pathway (1500 Hours required for Georgia licensure)

Dental Science Career Cluster: Health Science

This pathway is designed for students wishing to pursue a career in the area of Dental Science. Students will receive initial exposure to dental health science technical skills and attitudes applicable to dental health occupations. Students are required to meet both national and intrastate professional guidelines as designated by applicable regulatory agencies such as the Occupational Safety and Health Administration (OSHA), Center for Disease Control (CDC) and the Georgia Board of Dentistry.

CTSO: HOSA

Certifications: Dental Assisting Assessment, NOCTI Job Ready Assessment

Law Enforcement Services/Criminal Investigations/Forensic Science Career Cluster: Law, Public Safety, Corrections and Security

This pathway includes, but is not limited to, introduction to the criminal justice system, police ethics and constitutional law, patrol procedures, traffic control procedures, defensive tactics and physical proficiency skills, interpersonal and communication skills, investigation procedures, court systems and trial procedures, correctional system, introduction to forensic science, crime prevention, property control, and employability skills.

CTSO: SkillsUSA

Certifications: CPR, CERT (Community Emergency Response Training)

Manufacturing Career Cluster: Manufacturing

This pathway provides students with an introduction to manufacturing technology and its relationship with society, individuals, and the environment. This pathway also includes a study of the various managed activities which are used to develop, produce, use, and assess production technology. Research and development, production, and marketing techniques are reviewed. In addition, students learn about a wide variety of production techniques. Fabrication and assembly steps are highlighted. Assuring product quality is also explored. **CTSO:** Technology Student Association **Certifications:** Automated Manufacturing Technology Skills Connect Assessment (AMT), NOCTI Job Ready Assessment, Auto Desk Healthcare-Nursing/Allied

Health Career Cluster: Health Science

Students wishing to pursue a career in the Healthcare Industry will receive initial exposure to healthcare science skills and attitudes applicable to healthcare including the concepts of health, wellness, and preventive care. **CTSO:** HOSA **Certifications:** Certified Nursing Assistant (CNA), Certified Clinical Medical Assistant (CCMA), Medical Office Assistant (MOA)

