

Automobile Maintenance and Light Repair Pathway (Ken Martin)

Maintenance and Light Repair (MLR) is one of eleven pathways in the Transportation, Distribution & Logistics Cluster. In this pathway students will learn how to research applicable vehicle and service information, service history, precautions and technical service bulletins. Many basic tasks will be covered such as fluid changes, belt replacement, brake, and tire service. This pathway culminates with the opportunity for students to take the end of pathway assessment in Maintenance and Light Repair offered by the National Institute for Automotive Service Excellence (ASE) in collaboration with NATEF/AYES/SkillsUSA.

Engineering and Technology Pathway (Jeff Wyrick)

The Engineering and Technology Education pathway is one of three pathways in the STEM Career Cluster. Engineering & Technology combines hands-on projects with a rigorous curriculum to prepare students for the most challenging postsecondary engineering and technology programs. Students build solid technical writing, comprehension, calculation, problem-solving, and technical skills. Students are encouraged to take relevant math and science courses, such as advanced algebra, chemistry, calculus, geometry, trigonometry, physics, design, and engineering concepts. In addition to classroom and laboratory experiences, Engineering & Technology students participate in the Technology Student Association (TSA). Activities in Technology Student Association promote soft skills, leadership skills, and high standards of craft quality, scholarship, and safety. Through Technology Student Association, students have the opportunity to explore industrial and technological resources, practice parliamentary procedures and democratic decision-making, and earn recognition for exemplary performance. Engineering & Technology graduates typically pursue postsecondary education at two-year or four-year colleges to prepare for engineering, engineering technology, and engineering technician-oriented positions. Possible college majors include architectural, biomedical, chemical, civil, computer, computer science, electrical, environmental, industrial, manufacturing, materials, mechanical, nuclear engineering, and engineering technology. Career opportunities in these fields generally involve planning, managing, and providing scientific research and professional and technical services. The demand for skilled engineers in the United States far outpaces the current supply, so the future looks bright for students who want to follow an engineering-related career. This pathway culminates with an opportunity for students to take the NOCTI Engineering or SkillsUSA Engineering end of pathway assessment.

Interactive Media Pathway (Mr. Harris)

Students work with the latest technological tools and innovative curriculum in hands-on learning projects that include web page production, managing databases, and writing programming code to name a few. Students will also master standards pertaining to ethical and privacy issues related to computers, business, and the Internet. The program consists of three components: classroom/laboratory experiences, work-based learning opportunities that relate directly to classroom instruction, and the Career Technical Student Organization, Future Business Leaders of America, which provides co-curricular activities that build teamwork and leadership skills.

Audio-Video Technology and Film Pathway (John Cribb and Mike Rinehart)

The Audio-Video Technology and Film pathway is one of three pathways in the Arts, Audio-Video Technology and Communications Cluster. Completion of this pathway prepares the student for employment in the Audio-Video Communications industry. An individual may design, manufacture, operate and/or repair audiovisual equipment. Students will be involved in the presentation of sound, video and data in a variety of venues. Students may gather information and prepare broadcasts or be involved in the set up and operations of equipment used to record and transmit programs and/or motion pictures. Students may provide sound mixing and/or video editing services. The Audio-Video Technology and Film industry is growing rapidly in the state of Georgia. This pathway culminates with an opportunity for students to take the SkillsUSA Television Video Production end of pathway assessment.

Architectural Drawing and Design Pathway (Jeff Wyrick)

Completion of this pathway will prepare students for employment in a variety of industries that use drafting and design. Emphasis is placed on geometric construction, working drawings and the fundamentals of computer-aided drafting. Students learn drafting techniques through the study of geometric construction at which time they are introduced to computer-aided drafting and design. Standards in this course are aligned with the national standards of the American Design Drafting Association (ADDA). This pathway culminates with an opportunity for students to take the Drafter Certification Examination from the ADDA or the SkillsUSA Work Force Ready exam in Architectural Drawing or the NOCTI Work Ready Assessment.

Carpentry Pathway (Dennis Wilson)

The Carpentry pathway is one of ten pathways in the Architecture and Construction Cluster. The Carpentry pathway is designed to provide students with practical information regarding safety, advanced power tools and stationary machinery related to the construction industry. Students are instructed in all areas of safety including ladders, scaffolding, trenching and the use of safety harnesses. Students are introduced to the State of Georgia Building Codes and knowledge needed to lay rafters, stairs and walls, and how to properly frame doors and windows. This pathway culminates with an opportunity for students in an NCCER Industry Certified program to earn credentials or take the SkillsUSA Work Force Ready exam in Carpentry.

Electrical Pathway (Dennis Wilson)

The Electrical pathway is one of ten pathways in the Architecture and Construction Cluster. The Electrical pathway provides a program through which students learn the theoretical information regarding various conductors and properties, types of insulation, termination principles, and Ohm's Law calculations. Students will identify types of wire and cable and selection of electrical boxes and fittings. They will demonstrate the ability to use the National Electrical Code (NEC) and other applicable building codes and standards as well as apply code-related requirements using entry-level skills. This pathway culminates with an opportunity for students in an NCCER Industry Certified program to earn industry credentials.

Nutrition & Food Science Pathway (Mrs. Huggins)

Students are trained to help people lead healthier lives through a balanced diet. They plan food and nutrition programs and supervise the preparation and serving of meals. They help prevent and treat illnesses by promoting healthy eating habits and by recommending dietary modifications. Other job opportunities in this field include managing food service systems for institutions such as hospitals and schools and promoting sound eating habits through education and research. Food scientists analyze food to see what it is made of and what causes it to break down or spoil. They focus on the safe preservation and processing of food as well as its nutritional value.

Administrative/Information Support Pathway (Mrs. Davenport)

In the administrative and information support pathway students readily recognize the importance of computer skills in business and everyday life. In this pathway, students are exposed to word processing, spreadsheets, databases, presentation software, multimedia software, desktop publishing software, as well as other computer skills such as web navigation and working with input and output devices. The goal of this pathway is to expose students to technology and demonstrate how to use this technology in the workplace and in life. In the administrative and information support pathway students readily recognize the importance of computer skills in business and everyday life. In this pathway, students are exposed to word processing, spreadsheets, databases, presentation software, multimedia software, desktop publishing software, as well as other computer skills such as web navigation and working with input and output devices. The goal of this pathway is to expose students to technology and demonstrate how to use this technology in the workplace and in life.