

Programs of Study Continued

Introduction to Manufacturing Technology

Introduction to Manufacturing Technology is a one year, entry-level course that provides senior students an introduction to manufacturing industries and may be used as a prerequisite for any of the manufacturing career majors. Worker standards are the basic knowledge and skills required by a mid-level production technician to perform the work. Students have the opportunity to participate in an apprenticeship position throughout the second course of this program.

Law Enforcement Services

This two year program will introduce students to the field of law enforcement and the local, county, state, and federal laws that law enforcement personnel are sworn to uphold. The student will also gain an understanding of the career options available in this field and the skills, education, and background experience needed to succeed in these careers. Students will learn about the evolution of the role of law enforcement in the United States.

Manufacturing and Automation

Students will apply engineering design processes to authentic project-based assignments. Students will engage in 3-D computer-aided design, documentation, prototyping, testing and analysis. Students will also design modern production systems and create energy efficient work cells. Students use advanced measurement tools to gather quality control data and apply principles from Six Sigma, lean manufacturing, statistical process control, total quality management, etc.

2023-2024

Programs of Study Continued

Welding Technology

This is a two-year course in which the students are taught welding shop safety, oxy-fuel cutting, plasma arc cutting, shielded metal arc welding, weld symbols and blueprint welding. The students will also learn the safe use of various hand tools and other equipment. Students will learn to weld in the flat, horizontal, vertical and overhead positions. They will also get to hone their skills by building a variety of shop projects by using drawings and blueprints.



Each student at the Sumter Career and Technology Center participates in the Microburst Learning EmployABILITY Soft Skills Program which provides the opportunity to obtain the *Employers' Choice Certificate*. The Certificate is endorsed by: Microburst Learning, the South Carolina Manufacturers Alliance, the Mechanical Contractors Association of South Carolina, and the South Carolina Association of Career and Technical Education. This certification requires intensive work from the student and means that the student has passed all 10 certification assessments with a silver or gold rating and the instructor has observed the student routinely demonstrating the acceptable behaviors like being on time, completing projects on time, working as a good team member, communicating, resolving conflict in an appropriate way, demonstrating a positive attitude, communicating in a positive and engaging manner, planning and organizing their work and demonstrating initiative.

Sumter School District



Investing in the Future

Mission

The mission of the Sumter Career and Technology Center is to prepare all students for a global technological workforce and post-secondary education.

Vision

The vision of the Sumter Career and Technology Center is to provide an environment which fosters the development of the technological skills necessary for the students' chosen career paths.

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Programs of Study

Aerospace Engineering

Students will explore the designing, building, testing and analyzing science behind the forces and physical properties of planes, rockets and unmanned vehicles. They will utilize tools such as Excel, LabVIEW and sensing systems to collect and analyze data. In addition, students will work collaboratively, manage projects, be creative and innovative, think critically, and solve problems as well as propose solutions to design problems.

Automotive Collision and Repair

This program is designed to provide students with a “hands on” approach to a skilled trade. It consists of four courses and takes two years to complete. The first year courses incorporate safety and tool usage as well as basic panel straightening. The second year courses explore painting, structural body repairs, complex damage analysis and stage painting.

Automotive Technology

This program is designed to prepare students to perform routine maintenance and service on all types of automobiles. Students receive instruction in safety, tools, brake systems, suspension and steering, fuel systems, heating and air conditioning, engine performance and emission control. The second year courses are designed to provide additional instruction of computer and on-board diagnostics repair.

Cosmetology

This program is designed to prepare students for the licensing examination in cosmetology. Students receive training in the care and beautification of hair, skin, and nails. Instruction on the following concepts and skills are emphasized: scalp treatments, hair shaping, styling, setting, waving, hair coloring, shampoo and rinses, etc. Instruction in chemistry, bacteriology, anatomy and physiology of the face, head, arms, and hands is incorporated by theory and practical application.

Culinary Arts

This program prepares students entry into post-secondary education in the food production and service industry. Lab experiences simulate commercial food production and service operations. Students learn safety, sanitation in the kitchen, appropriate work ethics, customer service duties, handling of utensils, tools, equipment and food preparation. Also, students learn food production, presentation and menu planning.

Cyber Security

This two year program examines how the concept of security integrates into the importance of user involvement, security training, ethics, trust, and best practices management. The fundamental skills cover network security, testing, and validation; compliance and operational security; threats and vulnerabilities; application, data, and host security.



Sumter Career and Technology Center is Cognia STEM certified. Cognia STEM Certification is a mark of distinction and excellence for schools and programs that meet the organization’s high standards and expectations.

Firefighting

Students will learn the fundamentals of firefighting which include fire ground skills, fire behavior, fire extinguishers, personal protective equipment, ladder, fire hose, and more. Successful completion of written and practical skills testing is required. Upon successful completion of written and skills testing, the student will receive international recognition as a Firefighter 1 by IFSAC. Students will also complete the final level of the fire fighter training as recognized by the National Fire Protection Association and the International Fire Service Accreditation Congress. Students will gain skills in CPR, first aid, incident command, hazmat operations and auto extrication.

Game and Interactive Media Design

Game and Interactive Media Design is a program that focuses on the design, development, and programming of interactive media entertainment, including computer and video games, virtual environments, Internet applications, and other interactive media.

Health Science Clinical Studies

This program provides instruction on the knowledge and skills necessary for the health care fields. Students must be in the eleventh grade, and seniors must be able to find their own transportation to clinical sites. Students will learn patient care skills, safety, first aid, CPR, medical terminology, nutrition, anatomy of the body, and knowledge of various diseases.