

Programs of Study Continued

Health Science Pharmacology for Medical Careers

This program provides instruction on the knowledge and skills necessary for the healthcare fields. Pharmacology for Medical Careers is designed to train pharmacy technicians and to prepare them to pass the Pharmacy Technician Certifying Board (PTCB) examination. The American Council of Pharmaceutical Education accredits the program. Students will learn safety, first aid, CPR, medical terminology, nutrition, anatomy of the body and knowledge of various diseases.

Integrated Production Technologies

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, create energy efficient work cells and explore robotics with the programmable logic controllers and computer numerical control systems. Students will also use advanced measurement tools to gather quality control data and apply principles from Six Sigma, lean manufacturing, statistical process control, total quality management and inventory control to design just-in-time production systems.

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.

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Nail Technology

This year-long program is designed to prepare students to qualify for licensing examinations. Students receive training in the art and science of the care and beautification of the hands, nails, skin and feet. This course includes hand and foot care, manicures, pedicures, massage, gel nails, acrylic nails, hot oil treatments and paraffin treatments. In addition, students will receive instructions in chemistry, sanitation, hygiene, anatomy and physiology of the hands, arms, feet and legs through the use of theory and practical applications.

STEM 10

Through hands-on experiences **tenth** grade students will explore mechanical, electrical and computer engineering through the use of FESTO, LabVolt, and Siemens equipment. Students will be given the opportunity to complete the Mechatronics certification through Central Carolina Technical College and attend Dual Enrollment courses in their junior and senior year.

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.



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 or 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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2018-2019



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

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

Automotive Technology

Levels 1 and 2 of this program are 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. Levels 3 and 4 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. Care of the skin includes manicuring, pedicuring, massage, facial, makeup application, and hair removal, are also taught in the program. 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.

Diesel Technology

Diesel Service Technology is a two-year secondary program that provides students with a foundation of skills and knowledge related to the service and repair of diesel vehicles and power equipment. Students may enter employment in an entry level position or continue their education in a post-secondary program such as diesel technology, heavy equipment maintenance or related areas. Students receive instruction in the maintenance and service of a variety of vehicles including small equipment, automobiles, trucks and tractors/construction.

Early Childhood Education

This year-long program provides students with the foundation for understanding child growth and development, child nutrition, health and safety, behavior guidance, program planning, maintenance of the child’s environment and management of routine child centered activities. Students also learn the laws, regulations, and policies governing child care services.

Fire and Safety Management

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.

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.