

ABOUT SCTC

The Spotsylvania Career and Technical Center serves students enrolled in any of the five Spotsylvania County High Schools. The mission of the Center is to prepare high school students with the knowledge and skills necessary to enter the workforce directly out of high school or to enter a post-secondary educational or training program that compliments their program of study at the SCTC.

Students who attend SCTC usually commit to a two-year program of study in one of the nineteen program areas listed in this brochure. Our focus is ensuring students leave the Center with a foundation in the theory and skills associated with their chosen educational and career path. SCTC emphasizes essential workplace readiness skills in all of its classes, including teamwork, integrity, work ethic, communication and problem solving.

SCTC is a place where students with a commitment to their futures can clarify and hone the skills necessary to proceed confidently into life after high school. We are where the next opportunity begins and we believe in the dignity of work.

It is the policy of the Spotsylvania County School Board not to discriminate against any disabled person, nor any person on the basis of race, color, religion, national origin, sex, age, ancestry or marital status.

CAREER AND TECHNICAL COURSE OFFERINGS



6713 Smith Station Road
Spotsylvania, VA 22553
www.spotsyschools.us/sctc

... Believe in the dignity of work

Pathways and Exploratory Classes

Metal Trades

9th & 10th grade/2 credits per year

Introduction to industrial shop safety, machine and tool use. Instruction includes manual welding and cutting, electric arc welding, use of plasma cutter, metal fabrication, blueprint and diagram reading.

Health and Medical Pathways

10th grade/2 credits per year

Students exposed to variety of careers available in health and medical fields and the criteria necessary for employment in those areas. Additionally, students are exposed to basic human anatomy and physiology along with an exploration of the major body systems.

Construction Pathways

10th grade/2 credits

Students explore four areas of the construction industry, Masonry, Carpentry, HVAC-R, and Electricity. Students spend nine weeks in each content area, learning basic shop safety, hand tool identification and use, trade skills and concepts are demonstrated via shop based projects.

Information Technology Pathways

10th grade/2 credits

Introduction to the IT industry for students interested in exploring electronics, computer system and robotics concepts. Content includes basic electrical theory, hardware and software operations and troubleshooting of IT systems.

Graphic-Video Pathways

10th grade/2 credits

Exploratory course for students interested in careers in the communication industry, including video and audio production and graphics design. Practices include hand drawing, basic news writing, and exposure to Adobe suite for graphic design and Adobe premiere editing software.

Health Science

Dental Assisting

11th and 12th grade/4 credits each year (externship opportunity)

Students are introduced to careers in the dentistry industry with a focus on the skills and theory used as dental assistants. Several certifications are available to students wishing to enter the dental assisting field directly after high school.

Medical Assisting

11th and 12th grade /2 credits per year (externship opportunity)

Students learn foundational knowledge in basic anatomy and physiology, medical ethics, medical terminology and the legal responsibilities associated with a career in the healthcare industry. Students develop and practice skills and techniques necessary to assist healthcare providers and other medical professional in patient examinations.

Practical Nursing—Dual Enrollment

12th grade/4 credits

Students learn the nursing process and care of patients of all ages, in various stages of sickness or wellness, and with a variety of disease conditions. They focus on fundamental nursing skills, communication, human anatomy, body function, nutrition, and community health. Instruction also emphasizes infection prevention and control and introduces pharmacology. Advanced emergency procedures and application of nursing procedures are demonstrated in a laboratory setting.

Architecture and Construction

Drafting, Design and CAD

11th and 12th grade – 2 credits per year (option for 4 credits in second year)

Students explore drafting careers and the theory and processes necessary to produce accurate drawings based on the ideas and sketches of engineers, architects and designers. Student may choose a concentration in second year of either mechanical or architectural drafting.

Carpentry

11th and 12th grade

4 credits level I & 2 credits level II

Students are introduced to the opportunities available in the building and construction industry. They are taught the safe operation of hand and power tools and are able to produce a variety of components necessary for residential construction. All students are given the opportunity to obtain an OSHA 10 industry recognized credential.

Electricity

11th and 12th grade

4 credits level I & 2 credits level II

Students learn electrical theory, safe operation of hand and power tools and develop skills in the installation, operation, maintenance and repair of residential, commercial and industrial electrical systems. Study of the National Electrical Code is included and credentials focused on the NEC are available to students. All students have the opportunity to obtain OSHA 10 industry credential.

Masonry

11th and 12th grade

4 credits level I & 2 credits level II

Students learn about the opportunities available in the construction industry. They learn to safely operate both hand and power tools and other machinery and equipment related to brick and block masonry construction. Students are given the opportunity to earn OSHA 10 industry credential.

HVAC-R

11th and 12th grade

4 credits level I & 2 credits level II

Students study the principals and theories of heat and electricity. They learn safe operation of tools and materials used in the HVAC/R industry, including proper handling of refrigerants per EPA regulations. Students learn to professionally install, repair and troubleshoot a variety of heating and cooling systems, both residential and commercial. EPA certifications are available to students which meet industry requirements for employment.

Arts, Audio/Video Technology and Communications

Advertising Design

12th grade/2 credits

Students explore skills and principles involved in the development and function of advertising and production processes. Emphasis is placed on applying aesthetic theories and technical skills to graphic design objectives. Students utilize latest industry hardware and software to complete design projects.

Graphic Technology

11th and 12th grade, 2 credits per year

Students are introduced to the opportunities available in the graphic communication industry. Students learn to move from hand sketches to computer generated designs and fully realized printed projects. Industry standard hardware and software is utilized and students become proficient in a number of graphic specific software programs.

Video Production

11th and 12th grade, 2 credits per year

Students are introduced to the media production industry and its many opportunities. They will become proficient in the processes associated with the industry, from research and story writing to presentation and editing of media projects. Students utilize industry standard hardware and software tools to produce professional media projects.

Education and Training

Early Childhood Education

11th and 12th grade/4 credits each year (externship required)

Students focus on the occupational skills and theory necessary to be employed in early childhood-related fields. Good introduction course for students interested in pursuing careers as elementary or early childhood teachers.

Human Services, Hospitality and Tourism

Cosmetology

11th and 12th grade /4 credits each year

Students interested in pursuing a career in the cosmetology industry will learn and practice the theory and skills necessary to master techniques in hair, skin and nail treatments. Students take the Cosmetology State Board of Licensing Exam at the end of year two and upon successfully passing are able to enter the cosmetology industry directly after graduation.

Culinary Arts

11th and 12th grade/4 credits each year

Students learn the foundations of the food service industry. Students practice kitchen safety and sanitation and engage in practical experience in the SCTC Café 222 preparing and serving food to the public and providing catering services for various events. Students are ServSafe Certified by the National Restaurant Association.

Information Technology

Computer Systems Technology

11th and 12th grade/ 2 credits each year

Students learn to construct, troubleshoot, service and repair computers systems, related components and software and install and maintain local networks. Topics covered include computer virus', Trojan horse identification, computer related ethics, copyright and computer privacy issues. Students who complete year two are eligible to take the A+ certification exam.

Manufacturing

Robotics

11th and 12th grade/ 2 credits each year

Students learn theory and processes involved in robotics with an emphasis on robotics used in manufacturing environments. Computer programming, electronics, motor control and feedback used in robotics are covered. Students build and program basic robots.

Transportation

Automotive Technology

11th and 12th grade / 4 credits each year (internship opportunity available in Summer)

Students learn about the many opportunities available in the automotive industry. Safe use of automotive industry standard equipment is emphasized. Theory and practice in auto maintenance and light repair is emphasized. This is an ASE/NATEF certified program and students have the opportunity to take several industry credential exams.

Collision Repair Technology

11th and 12th grade / 4 credits each year

Students explore employment opportunities available in the collision repair industry. Students practice shop and tool safety using industry standard equipment. Students learn basics of non-structural analysis, damage repair, welding, metal finishing, body filling and paint techniques appropriate for automotive body work. This is an ASE/NATEF certified program.