

SWOFFORD CAREER CENTER

The mission of Swofford Career Center is to develop responsible, cooperative, productive, lifelong learners by interacting with community and industry to provide a secure and challenging learning environment which promotes individual abilities.

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TITLE IX STATEMENT – Swofford does not discriminate on the basis of sex, race, age, color, creed, handicap, religion or veteran status in the provision of educational opportunities or employment opportunities and benefits in compliance with Title IX of the Education Amendment Act of 1972 and Section 504 of the Rehabilitation Act of 1972. Title IX and Section 504 coordinators may be reached through: District One office (121 Wheeler St., Campobello, SC 29322 – Phone 864 472 2846. Title IX / Section 504 -- Dr. Trish Beason); or District Two office (4606 Parris Bridge Rd., Boiling Springs, SC 29316 – phone – 864 578 0128. Title IX – Carlos Brooks; Section 504 -- Fran Metta).

DECLARACIÓN DEL TÍTULO IX – H. B. Swofford no se discrimina basado en sexo, raza, edad, color, credo, discapacidad, religión, o status de veterano en proveer oportunidades educativas o oportunidades de empleo y beneficios de acuerdo con Título IX Título 4 de Las Enmiendas Educativas de 1972 y Sección 504 de la Ley de la Rehabilitación de 1973. Se puede comunicarse con los Coordinadores del Título IX y Sección 504 por: Oficina Central Administrativa del Primer Distrito: (121 Wheeler St., P. O. Box 218, Campobello, SC 29322 – teléfono 864 472 2846. Título IX / Sección 504 – Dr. Trish Beason); o Oficina del Segundo Distrito (4606 Parris Bridge Rd., Boiling Springs, SC 29316 – teléfono 864 578 0128. Título IX – Carlos Brooks; Sección 504 – Fran Metta)

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CLASS SCHEDULE

FIRST SEMESTER

1st and 2nd Blocks

- Automotive Collision Repair Technology I
- Automotive Technology I
- Carpentry I
- Cosmetology III
- Culinary Arts I (Dual Enrollment)
- Electricity I
- Engineering Drafting & Design I
- Fire Fighter I
- Graphic Communications I
- Graphic Communications III (Dual Enrollment)
- Health Science I
- Health Science II (Dual Enrollment)
- Introduction to Horticulture
- Machine Technology I
- Media Technology I
- Networking I - Networking Fundamentals
- Welding Technology I

3rd and 4th Blocks

- Automotive Collision Repair Technology II
- Automotive Technology II
- Carpentry II
- Cosmetology I
- Electricity II—Residential
- Engineering Drafting & Design II (Dual Enr.)
- Graphic Communications I
- Graphic Communications II
- Health Science I
- Health Science II (Dual Enrollment)
- Introduction to Culinary Arts
- Law Enforcement Services I
- Machine Technology II
- Media Technology II
- Networking II - Advanced Networking
- Turf and Lawn Management
- Welding II - Shielded Metal Arc Welding

SECOND SEMESTER

1st and 2nd Blocks

- Automotive Collision Repair Technology I
- Automotive Technology I
- Carpentry I
- Cosmetology IV
- Culinary Arts II (Dual Enrollment)
- Electricity I
- Engineering Drafting & Design I
- Fire Fighter II
- Graphic Communications I
- Graphic Communications II
- Health Science Clinical Study
- Introduction to Horticulture
- Machine Technology I
- Media Technology I
- Networking I - Networking Fundamentals
- Welding Technology I

3rd and 4th Blocks

- Advanced Animation
- Automotive Collision Repair Technology III
- Automotive Technology III
- Carpentry III
- Cosmetology II
- Cyber Security Fundamentals
- Electricity III—Industrial
- Engineering Drafting & Design III
- Graphic Communications I
- Graphic Communications III (Dual Enrollment)
- Health Science I
- Health Science II (Dual Enrollment)
- Introduction to Culinary Arts
- Law Enforcement Services II
- Machine Technology III - CNC Programming
- Nursery, Greenhouse, and Garden Center
- Welding III - Gas Tungsten Arc Welding

GENERAL INFORMATION

General Information / Enrollment

Courses at Swofford Career Center are open to students enrolled in the 10th, 11th, and 12th grades at Chapman and Landrum High Schools in Spartanburg County School District One and Boiling Springs and Chesnee High Schools in Spartanburg County School District Two. Students interested in enrolling in a Swofford course will be able to select that course during registration at their high school. Enrollment for each program is limited and competitive. Admission priorities are determined by grade level, IGP career plan information, academic performance, attendance, and discipline. Swofford cannot guarantee a student will be enrolled in his/her first choice program. Students or parents are welcome to contact Swofford's School Counselor with registration questions or concerns at (864) 592-2790.

Fees

Due to the materials used in our hands-on, dynamic, and project-based learning programs, each student attending Swofford must pay a \$15.00 fee per semester. This fee is in addition to any other fees that may be charged at the home high school or required by the specific Swofford program. Some programs have additional costs due to required uniforms or additional supplies/safety equipment. Programs that require additional fees include Automotive Collision Repair, Automotive Technology, Cosmetology, Culinary Arts, Graphic Communications, Health Science, Horticulture, and Protective Services. Fees are listed within each program in this guide.

Special Services

Students of all ability levels are welcome at Swofford Career Center. Students who qualify for special services can enroll in classes based on their career plan, grade level, and attainment of prerequisite requirements. A designated representative from Swofford must serve on the IEP committee before course registration is completed.

Dual Enrollment

Through **Dual Enrollment**, Swofford students have the opportunity to earn college credit through Spartanburg Community College within the following programs: **Culinary Arts, Engineering Drafting & Design, Graphic Communications, and Health Science**. Credits earned may be transferred to other technical colleges within the South Carolina Technical College System. Credits may also transfer to 4-year colleges and universities. Swofford recommends that students contact the college(s) they wish to attend if they have questions about transferring credits earned through dual enrollment.

Technical Advanced Placement

Technical Advanced Placement (or "TAP") is an articulation agreement between Swofford and Spartanburg Community College which provides an opportunity for students to exempt certain courses at SCC. These TAP credits are awarded at the end of the senior year upon completion of a course-specific assessment. Students in the following Swofford programs may be eligible for TAP credit: Culinary Arts, Electricity, Engineering Drafting & Design, Graphic Communications, Health Science, Machine Technology, Networking, and Welding.

GENERAL INFORMATION

Certification and Licensure

Swofford Career Center students may achieve certification and licensing through the following programs (provided the student passes appropriate examinations):

- [Automotive Collision Repair](#) - I-CAR Certifications
- [Automotive Technology](#) - ASE Certifications, Snap-On DVOM Certification
- [Carpentry](#) - OSHA 10
- [Cosmetology](#) - South Carolina State Cosmetology License
- [Culinary Arts](#) - ServSafe / ProStart Certifications
- [Electricity](#) - OSHA 10
- [Fire Services](#) - IFSAC Firefighter I&II Certification; First Aid/CPR/AED Certification / HAZMAT Operations Certification / Fundamentals of Firefighting Certification / Auto Extrication
- [Graphic Communications](#) - Adobe Certified Associate: Illustrator, Photoshop, InDesign
- [Health Science](#) - CPR / First Aid / Certified Nursing Assistant (CNA) Certification / OSHA 10
- [Law Enforcement Services](#) - First Aid / CPR / AED Certification
- [Machine Technology](#) - OSHA 10
- [Media Technology](#) - Adobe Certified Associate: Premiere Pro
- [Networking](#) - Digital Literacy, CompTIA Net+
- [Welding](#) - OSHA 10

Work-Based Learning/Cooperative Education

Swofford partners with local business and industry to provide **Work-Based Learning/Cooperative Education** (“Co-Op”) opportunities for students. The most-qualified students in advanced level classes often have the opportunity to be hired and work at a local business during the time they would be in class at Swofford. This unique arrangement allows students to gain valuable on-the-job experience before they graduate from high school. Please see page 23 or contact Mr. Tyler Hill for more information about Work-Based Learning/Cooperative Education opportunities.

Computer Science Unit for High School Diploma

South Carolina students are required to have at least 1 unit in Computer Science in order to be eligible to earn a high school diploma. The following courses at Swofford Career Center will satisfy that requirement:

- Networking Fundamentals, Advanced Networking, CyberSecurity Fundamentals, Advanced Animation

Non-Discrimination Clause

Students are encouraged to select a Swofford program in which they have an interest in pursuing as a career. Swofford does not discriminate on the basis of sex, race, age, color, creed, handicap, religion, or status in the provision of educational opportunities in compliance with Title IX.

COURSES BY CLUSTERS

Agriculture, Food and Natural Resources

- Introduction to Horticulture
- Nursery, Greenhouse, and Garden Center Technology
- Turf and Lawn Management

Architecture and Construction

- Carpentry I
- Carpentry II - Framing
- Carpentry III - Finishing
- Electricity I
- Electricity II - Residential
- Electricity III - Industrial
- Engineering Drafting and Design I
- Engineering Drafting and Design II (Dual Enrollment)
- Engineering Drafting and Design III

Arts, AV Technology and Communications

- Engineering Drafting and Design I
- Engineering Drafting and Design II (Dual Enrollment)
- Engineering Drafting and Design III
- Graphic Communications I
- Graphic Communications II
- Graphic Communications III (Dual Enrollment)
- Media Technology I
- Media Technology II
- Advanced Animation

Health Science

- Health Science I
- Health Science II (Dual Enrollment)
- Clinical Study - Certified Nursing Assistant

Hospitality and Tourism

- Introduction to Culinary Arts
- Culinary Arts I
- Culinary Arts II

Human Services

- Cosmetology I
- Cosmetology II
- Cosmetology III
- Cosmetology IV

Information Technology

- Networking Fundamentals
- Advanced Networking
- Cyber Security Fundamentals

Law, Public Safety, Correction and Security

- FireFighter I
- FireFighter II
- Law Enforcement Services I
- Law Enforcement Services II

Manufacturing

- Machine Tool Technology I
- Machine Tool Technology II
- Machine Tool Technology III - CNC Programming and Operations
- Welding Technology I
- Welding Technology II - Shielded Metal Arc Welding (SMAW)
- Welding Technology III - Gas Tungsten Arc Welding (TIG)

Science, Technology, Engineering and Mathematics

- Engineering Drafting and Design I
- Engineering Drafting and Design II (Dual Enrollment)
- Engineering Drafting and Design III
- Machine Tool Technology I
- Machine Tool Technology II
- Machine Tool Technology III - CNC Programming and Operations

Transportation, Distribution and Logistics

- Automotive Collision Repair Technology I
- Automotive Collision Repair Technology II
- Automotive Collision Repair Technology III
- Automotive Technology I
- Automotive Technology II
- Automotive Technology III

COMPUTER SCIENCE UNITS

- All Networking courses

- Advanced Animation

AUTOMOTIVE COLLISION REPAIR

In Automotive Collision Repair, students will learn not only the correct procedures to repair damaged vehicles but also customization techniques. Students repair “fender benders” and so much more: for example, airbrushed designs, painting techniques in a state-of-the-art downdraft paint booth, and even glass installation. Students may test for the ability to earn valuable I-CAR Certifications.

470603

Automotive Collision Repair I (6020)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee + \$25 for shirts/materials

This introductory course includes training in the areas of metal straightening, plastic repair, and detailing. Basic repair techniques and work safety are emphasized as students learn to airbrush, repair, replace, adjust, and install trim and accessories. Students will learn how to read and write accurate repair estimates.

Automotive Collision Repair II (6021)

Grades: 11-12

Prerequisite: Completion of Automotive Collision Repair I with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee + \$25 for shirts/materials

This course offers advanced study of automotive repair through work in the lab on metalworking, panel replacement, basic body alignment skills, refinishing, painting, and detailing. Students engage in measuring, pulling, and straightening needed for structural repairs.

Automotive Collision Repair III (6022)

Grades: 11-12

Prerequisite: Completion of Automotive Collision Repair II with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee + \$25 for shirts/materials

Students will engage in advanced projects and enhance their skills in problem solving, estimating repair cost, glass installation, and body and frame alignment. Students learn to mix paint to match manufacturer specifications and apply paint in the downdraft paint booth.

Certifications

ICAR Certifications



CAREER OPPORTUNITIES

Airbrush Artist

Auto Body Technician

Automotive Painter

Frame Technician

Glass Installer

Insurance Adjuster

Part Recycler

Shop Owner

Welder



AUTOMOTIVE TECHNOLOGY

The Automotive Technology program provides training for entry-level positions in the automotive industry. Students work on real vehicles and vehicle systems, using proper safety practices, tools and equipment, computer skills, and shop math. Students may test to earn valuable ASE Certifications, as well as Valvoline Oil Technology and Snap-On DVOM Certifications. Swofford Career Center is an Automotive Service Excellence/National Automotive Technical Education Foundation, Inc. (ASE/NATEF) certified training center.

470604

Automotive Technology I (6030)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee + \$25 for shirts/materials

This course acquaints students with introductory-level automotive job skills. Students study industry-wide career opportunities, safety practices, tool and equipment care and use, and communications and information systems within the industry. Students focus on the fundamentals of automotive maintenance and basic service. These include the eight major areas of the automobile: brakes, steering and suspension, electrical, engine performance, engine repair, manual transmission, automatic transmission, and heat and air conditioning.

Automotive Technology II (6031)

Grades: 11-12

Prerequisite: Completion of Automotive Technology I with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee + \$25 for shirts/materials

This course reinforces the introductory skills and increases the intensity of training in the fundamentals of electrical/electronics, brakes, and steering and suspension. The students further their understanding of battery service, starting systems, charging systems, lighting systems, and the diagnosis and repair of gauges.

Automotive Technology III (6032)

Grades: 11-12

Prerequisite: Completion of Automotive Technology II with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee + \$25 for shirts/materials

This course reinforces the introductory skills and increases the intensity of training in the fundamentals of engine repair, engine performance, and heat and air conditioning. Special emphasis is given to problem solving and teamwork as the students prepare to exit the program and enter the competitive job market and/or continue their ASE certification in other areas at the post-secondary level.

Certifications

ASE Certifications -- Brakes, Maintenance & Light Repair



CAREER OPPORTUNITIES

Automotive Technician

Electronics Technician

Engineer

Hydraulics Technician

Marine Engine
Repair Specialist

Robotics Technician

Small Engine
Repair Specialist



CARPENTRY

In Carpentry, students will learn the basic principles of carpentry and construction, as well as safe use of hand tools and power tools. Students will benefit from hands-on instruction and collaborate with classmates to build a house – from floors to roof, siding to plumbing, start to finish.

460201

Carpentry I (6091)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee

This course will introduce students to a range of career opportunities in the construction field. Students learn to read a tape measure and operate power tools safely. Students receive instruction in site preparation, framing, construction materials, applied mathematics, and blueprint reading. Students will enhance their skills by completing small-scale construction projects.

Carpentry II - Framing (6092)

Grades: 11-12

Prerequisites: Completion of Carpentry I. It is not necessary for Carpentry to be taken in sequential order; however, a student must have an 80 or above to move to the next course chosen (or Director approval).

Approximate Fees: \$15 Swofford fee

This course offers an advanced study of building materials and methods. Students work on the early construction phase of the Swofford house, which includes layout, flooring, framing, roofing and installation of rough plumbing. This course also includes instruction in estimating, blueprint reading, and design.

Carpentry III - Finishing (6093)

Grades: 10-12

Prerequisites: Completion of Carpentry I. It is not necessary for Carpentry to be taken in sequential order; however, a student must have an 80 or above to move to the next course chosen (or Director approval).

Approximate Fees: \$15 Swofford fee

Initial emphasis in this class is on finished carpentry, including interior trim and custom cabinetwork. This advanced course offers students the opportunity to apply their skills to complete construction of the Swofford house. Required skills include hanging sheet rock; installing trim; painting; installation of basic plumbing fixtures and vinyl siding; and cabinet construction and installation.

Certifications

OSHA 10



CAREER OPPORTUNITIES

Builder

Building Inspector

Cabinet Maker

Contractor

Drywall Installer

Painter

Plumber

Roofer

Vinyl Siding Installer



Under the instruction of licensed cosmetologists, students are trained and prepared to take the South Carolina Cosmetology State Board Exam at the end of their senior year. Upon completion of the course and passing the exam, students will be licensed cosmetologists in the state of South Carolina. Two years – four consecutive semesters – are required for students to accumulate the number of hours required to earn their license. Students are also required to accumulate additional hours through 10 mandatory “Saturday Schools” per year. Therefore, good attendance is required. Students must purchase a cosmetology kit, which contains items used in both levels of the program and will continue to be the property of the student after graduation. **All kit fees must be paid on or before the first day of school.**

120401

Cosmetology I (6150)

Grade: 11

Prerequisite: Completion of 10th grade & at least 16 years of age

Fees: Approximately \$700 for personal Cosmetology kit and Swofford fee

Students acquire knowledge and skills in theory, practical applications, safety, professionalism, and cosmetology sciences. Students will also study career opportunities, infection control, hair and scalp properties, hair design principles, shampooing/conditioning, hairstyling, and braiding/braid extensions.

Cosmetology II (6151)

Grade: 11

Prerequisite: Completion of Cosmetology I with a minimum of an 80 average, 250 State Board Hours, and/or Director recommendation

In Cosmetology II, students study such topics as haircutting, skin/nail structure, skin/nail disorders/diseases, hair removal, facials, facial makeup, manicuring, and pedicuring.

Cosmetology III (6152)

Grade: 12

Prerequisite: Completion of Cosmetology II with a minimum of an 80 average, 500 required State Board Hours, and/or Director recommendation

Fees: Approximately \$425 for personal Cosmetology kit, Swofford fee, Exam fee

In Cosmetology III, students will study such topics as wigs/hair additions, chemical texture services, hair coloring, nail tips/wraps, and nail enhancements.

Cosmetology IV (6153)

Grade: 12

Prerequisite: Completion of Cosmetology III with a minimum of an 80 average, 750 State Board Hours, and/or Director recommendation

The curriculum emphasizes business and life skills such as developing a professional image and communication skills, gaining employment, and managing a salon. Students will receive advanced training in safety practices, anatomy/physiology, chemistry, electricity, and the business aspects of cosmetology. The students will prepare for and take the South Carolina Cosmetology State Board Exam.

Certifications

South Carolina Cosmetology License



CAREER OPPORTUNITIES

Hair Designer

Make-Up Artist

Nail Technician

Platform Artist

Retail Specialist

Salon Owner



CULINARY ARTS

In Culinary Arts, students will receive hands-on training in food production, while developing professionalism and proficiency in cooking, cost control, nutrition, and sanitation. Students will also be able to attain valuable ProStart and ServSafe Certifications. Students are required to purchase a uniform, which is worn daily.

Evening and weekend work is expected of Culinary students.

520905

Introduction to Culinary Arts (5722)

Grades: 10-12

Prerequisite: Minimum of a 70 in Algebra I or 70 average in Foundations/Intermediate Algebra

Approximate Fees: \$15 Swofford fee + \$110 for uniform + \$25 for materials

Introduction to Culinary Arts provides students with hands-on training in a professional kitchen. In this class students will learn basic cooking techniques, knife skills, sanitation, recipe interpretation, measurements, and product identification. Students will also be introduced to the many career opportunities that are available in the food service industry.

Culinary Arts I (5720)

Grades: 11-12

Prerequisite: Completion of Introduction to Culinary Arts with a minimum of an 80 average and/or Director recommendation

Approximate Fees: \$15 Swofford fee + \$25 for materials + \$40 ServSafe Certification

Culinary Arts I prepares students for gainful employment and/or entry into postsecondary education in the food service industry. Students will prepare eclectic cuisine from around the world, work on their management skills, and learn what it takes to run an actual restaurant. Students will have the opportunity to become ServSafe Certified in sanitation, a valuable certification when seeking employment or beginning postsecondary education in this field. Students taking this course as dual enrollment may earn 3 hours of college credit in CUL155/Sanitation from Spartanburg Community College.

Culinary Arts II (5721)

Grades: 11-12

Prerequisite: Completion of Culinary Arts I with a minimum of an 80 average and/or Director recommendation

Approximate Fees: \$15 Swofford fee + \$30 for materials

Culinary Arts II is the most advanced Culinary Arts class and is for students who are serious about a future career in the food service industry. Students will gain an understanding of how an entire restaurant works; learn recipe development; and expand their knowledge of eclectic cuisine from around the world. Students will gain an understanding of industry standards and how to thrive in the food service industry. Students taking this course as dual enrollment may earn 3 hours of college credit in CUL129/Storeroom & Purchasing from Spartanburg Community College.

Certifications

ServSafe
ProStart



CAREER OPPORTUNITIES

Entrepreneur

Executive Chef

Food and Beverage
Manager

Line Cook

Pastry Chef

Restaurant Manager

Sous Chef



ELECTRICITY

Under the instruction of a licensed electrician, students will wire structures and read building blueprints. Residential and commercial electrical skills are taught and include installation of lights, switches, outlets, and bending of conduit. Power tools and hand tools are used daily. Students work on many outside projects, such as wiring the house constructed by Swofford students and completing service projects in local churches and homes.

460301

Electricity I (6287)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee

This course is an introduction to all types of electrical components and will prepare students to perform entry-level electrical tasks. Students study fundamentals of electricity and safety practices used in industry. Specific hands-on skills introduced are how to install electrical panels, lighting circuits, and conduit. Math skills are used to determine wire sizes, fuses, and circuit loads.

Electricity II - Residential (6288)

Grades: 11-12

Prerequisite: Completion of Electricity I. It is not necessary for Electricity to be taken in sequential order; however, a student must have an 80 or above (or Director approval) to move to the next course chosen.

Approximate Fees: \$15 Swofford fee

This course teaches the student the basics of electricity in residential construction. Emphasis is placed on wiring residential buildings to local, state, and national code requirements. An ongoing project every other year is the wiring of the house constructed by Swofford students.

Electricity III - Industrial (6289)

Grades: 10-12

Prerequisite: Completion of Electricity I. It is not necessary for Electricity to be taken in sequential order; however, a student must have an 80 or above (or Director approval) to move to the next course chosen.

Approximate Fees: \$15 Swofford fee

This course is an advanced study of commercial and industrial electric power, wiring, and motor control. Class projects provide training in installation, maintenance, and repair of electrical systems, as well as bending and installation of conduit. Skills are practiced through advanced projects which utilize transformers, Ohms law, and wire calculation. Emphasis is placed on wiring commercial and industrial sites, while learning the use of test equipment and the National Electrical Codes.

Certifications

OSHA 10



CAREER OPPORTUNITIES

Building Inspector

Commercial Electrician

Electrical Engineer

Electrical Estimator

Plant Maintenance
Supervisor

Residential Electrician



ENGINEERING DRAFTING AND DESIGN

Upon completion of the Engineering Drafting and Design program, students will complete advanced engineering drawings that include detail drawings; assembly and sub-assembly drawings; drawings with sectional views; and drawings with auxiliary views. The fundamentals of machine design and architectural design are also studied, as well as 3D computer modeling. The use of 3D printing technology is an integral component of this program at the 3rd level. Basic math, geometry, and writing skills are essential for the Engineering Drafting and Design student.

151301

Engineering Drafting and Design I (Architectural Design I) (6170)

Grades: 10-12

Prerequisite: 3.0 GPA

Approximate Fees: \$15 Swofford fee

Introduction to Engineering Drafting and Design covers the basics of creating a technical drawing using both drafting instruments and computer-aided drafting systems. The topics covered in this course include sketching, lettering, geometric construction, dimensioning, orthographic projection, pictorial drawing, and sections. Basic math, geometry, and writing skills are essential in all class projects.

Engineering Drafting and Design II -- Mechanical Design I (Dual Enrollment) (6172 & 6178)

Grades: 11-12

Prerequisite: Completion of Engineering Drafting and Design I with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee + \$45 Spartanburg Community College tuition (optional for students who qualify for and choose dual enrollment)

Students are introduced to a more advanced engineering environment, as well as a detailed study of mechanical and architectural projects. Advanced AutoCAD and solid modeling will be introduced. Basic math, geometry and technical writing are essential in all class projects. If students meet all requirements, they will earn 3 hours of credit in EGT 152 Fundamentals of CAD through Spartanburg Community College.

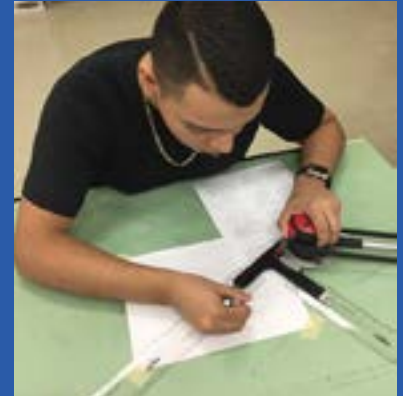
Engineering Drafting and Design III -- Mechanical Design II (6173)

Grades: 11-12

Prerequisite: Completion of Engineering Drafting and Design II with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee

Students use the CAD workstations for varied disciplines including machine design, architectural design, civil design, and land surveying. Elaborate 3D designs are completed in a team environment. Engineering reporting and documentation are included in all projects. Truss bridge design is studied, and students use applied math to analyze trusses both manually and with Microsoft Excel. Model bridges may be constructed. Students are expected to work independently and in teams.



CAREER OPPORTUNITIES

Architect

Civil Engineer

Drafter

Estimator

Structural Engineer

Machine Designer

Mechanical Engineer

Project Manager

Quality Control

Tool Designer



GRAPHIC COMMUNICATIONS

In Graphic Communications, students will be introduced to industry-standard printing equipment to produce projects such as a teeshirt, note pad, brochure, calendar, and business cards. Graphic Communications III provides students an opportunity to earn college credit through Spartanburg Community College.

100301

Graphic Communications I (6200)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee + \$10 for materials

Students will use Macintosh computers, graphic design software, printing equipment, and digital cameras. They will also illustrate images, edit photos, and create layouts for graphic design projects. Students will design a project and take it all the way through the commercial printing process while learning to operate standard printing equipment.

Graphic Communications II (6201)

Grades: 10-12

Prerequisite: Completion of Graphic Communications I with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee + \$10 for materials

In this advanced course, students will independently apply their ability to design, create, and complete personalized printed projects. Students will create and produce of all types of print media using industry-standard computers and equipment. After completing this course, students will have advanced skills to create a variety of diverse media. Emphasis is placed on design principles/elements, color theory, typography, marketing, packaging, job planning, and finishing/binding.

Graphic Communications III (6202)

Grades: 11-12

Prerequisite: Completion of Graphic Communications II with a minimum of an 80 average and/or Director recommendation

Approximate Fees: \$15 Swofford fee + \$10 for materials + \$45 tuition for students who choose dual enrollment.

Graphic Communications III covers the basic theories, vocabulary, principles, techniques, media, and problem-solving skills required in design. Students who meet all requirements may earn 3 hours of college credit in CGS115 Digital Photography from Spartanburg Community College. CGC 115 is a study of digital photography from manipulating digital cameras to learning image-editing software. Students will gain employability skills needed to enter the industry by producing an entry-level graphic portfolio and resume.

Certifications

Adobe Certified Associate:

Illustrator
InDesign
Photoshop



CAREER OPPORTUNITIES

Advertising Account Manager

Commercial Artist

Graphic Designer

Illustrator

Photographer

Prepress Artist

Press Operator

Screen Printer



HORTICULTURE

The Horticulture program exposes students to a wide variety of career choices. Included in this program are the operation of machinery used in industry and hands-on experiences. Students will identify trees, shrubs, grasses, and bedding plants and control weeds, fungus, and insects. A major project in the spring is the annual plant sale, which allows students to grow, market, and sell bedding plants, shrubs, and hanging baskets to the public.

010601

Introduction to Horticulture (5650)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee + \$10 for materials

This course includes subject matter and practical experiences related to the culture of plants used principally for ornamental or aesthetic purposes. Instruction emphasizes knowledge and understanding of the importance of establishing, maintaining, and managing ornamental horticulture enterprises. Typical instructional activities include hands-on experiences with propagating, growing, establishing, and maintaining nursery plants and greenhouse crops; designing landscapes; preparing designs; sales analysis and management; participating in personal and community leadership development activities; planning and implementing a relevant school-to-work transition experience.

Nursery, Greenhouse, and Garden Center Technology

Grades: 10-12

(5672)

Prerequisite: Completion of Intro to Horticulture. It is not necessary for Horticulture courses to be taken in sequential order; however, a student must have an 80 or above (or Director approval) to move to the next course chosen.

Approximate Fees: \$15 Swofford fee + \$10 for materials

This course includes subject matter and practical experiences about the culture of plants used for nursery and greenhouse businesses. Instruction includes an introduction to plant growth and soils and emphasizes identifying, growing, and maintaining nursery plants and greenhouse crops.

Turf and Lawn Management (5654)

Grades: 11-12

Prerequisite: Completion of Intro to Horticulture. It is not necessary for Horticulture courses to be taken in sequential order; however, a student must have an 80 or above (or Director approval) to move to the next course chosen.

Approximate Fees: \$15 Swofford fee + \$10 for materials

Students learn to manage and maintain such turf areas as golf courses, athletic fields, and landscaped spaces. Instruction includes an introduction to plant growth and soils. Other units include turf identification, establishment, and maintenance. Proper grading, soil preparation, drainage, weed identification and weed control are important topics emphasized.



CAREER OPPORTUNITIES

Agriculture/Science
Instructor

Forester/Wildlife
Manager

Greenskeeper

Horticulturist

Industrial/Residential
Grounds Manager

Landscape Designer

Landscaper

Parks and Recreation
Employee



HEALTH SCIENCE

Health Science is one of the most popular career clusters chosen by students. If a career in the healthcare industry interests you, the Health Science Technology (HST) program at Swofford is a great place to begin your journey. All HST instructors at Swofford are Registered Nurses, who have years of experience and knowledge to share with students. The rigorous curriculum offers essential content and skills needed by healthcare providers. Students also learn about the wide variety of careers in healthcare, as the instructors assist each student in career planning.

Students who complete all three HST courses at Swofford will have an opportunity to earn their Certified Nursing Assistant (CNA) license; eligible students may also earn 3 hours of college credit.

510000

Health Science I (5550)

Grades: 10-12

Prerequisite: 3.0 GPA or higher with a minimum of an 80 in English. Biology is strongly encouraged.

Approximate Fees: \$15 Swofford fee + \$10 for CPR/First Aid

Health Science I students are introduced to healthcare history, careers, safety, law and ethics, cultural diversity, healthcare terminology and abbreviations, medical math, infection control, professionalism, body systems, communication, basics of the organization of healthcare facilities, and types of healthcare insurance. Students are taught Heartsaver CPR/AED.

Health Science II (Dual Enrollment) (5551 and 5541)

Grades: 11-12

Prerequisite: 3.0 GPA and completion of Health Science I with a minimum of an 80 average and/or Director recommendation. Anatomy is strongly encouraged.

Approximate Fees: \$15 Swofford fee + \$115 for textbook + \$45 for AHS 102 tuition

Health Science II will introduce students to basic patient care skills, advanced medical terminology, medical math, pharmacology, and further their knowledge of body systems.

This course offers dual credit from Spartanburg Community College for AHS 102 Medical Terminology (3 credit hours), if students meet all SCC requirements. Purchase of a college textbook is required, along with the dual credit fee for Spartanburg Community College. **All fees are due on or before the first day of the course.**



CAREER OPPORTUNITIES

Anesthesiologist

Athletic Trainer

Biomedical Engineer

Chiropractor

Dental Assistant

Dental Hygienist

Dietician

Health Educator

Lab Technician

Nursing Assistant



HEALTH SCIENCE

Health Science Clinical Study (5560)

Grade: 12

Prerequisites: Completion of Health Science II with a minimum of an 80 average and/or Director recommendation; Social Security Card; reliable transportation to clinical site

Approximate Fees (subject to change): \$15 Swofford fee + approximately \$290 for the following: SC Nurse Aid Exam, uniforms for clinical, background check, drug screen, tuberculosis test, CPR/First Aid. Fees are discussed at an orientation program during fall semester (prior to this course) and must be paid on or before the first day of the course.

This course allows students to make connections from the classroom to the healthcare industry through work-based learning experiences/activities. Along with class time, there will be two weeks of clinical days required in which students will gain hands-on experience caring for patients at a local nursing home facility. **Students must have a TB test, background check, and drug screen before beginning clinical rotations. Any concerns will be addressed on an individual basis.** Typically, the hours for these days are from 6:45am until 10:30am (Mon.-Thurs.) and two Saturdays from 6:45am until 3:00pm; also evenings from 4:00 until 8:00pm. Students are responsible for providing their own transportation to and from the designated nursing home facility and for purchasing uniforms for clinical rotations. By course's end, students will learn Basic Life Support (BLS) CPR/AED/First Aid and take the Certified Nurse Aid Exam provided by the National Council of State Boards of Nursing at Swofford Career Center, a state-approved test site.

Certifications

CPR

CNA

OSHA 10

Health Science Assessment



CAREER OPPORTUNITIES

Perfusionist

Pharmacist

Physical Therapist

Physician

Radiologist

Registered Nurse

Respiratory Therapist

Speech Therapist

Surgeon

Surgical Technician



MACHINE TOOL TECHNOLOGY

With industries such as BMW and Boeing flourishing in South Carolina, our reputation as a successful manufacturing state is on the rise. However, the demand for qualified machinists is greater than the supply. In Machine Technology, students will acquire skills that translate into rewarding careers. Using state-of-the-art, industry-standard equipment, students will set up, program, and operate a variety of machines. Advanced students will become proficient in programming and operating Computer Numerical Control (CNC) machines. Students can be confident in their skills knowing they've been trained through National Institute for Metalworking Skills standards.

480503

Machine Tool Technology I (6230)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee

Machine Tool Technology I is designed to enable the beginning student to develop skills in the set-up and operation of all tools that are basic to the machinist. The student will learn to use the metal-shaping equipment to make tools and machinery parts. The student learns functions and capabilities of engine lathes, drill presses, milling machines, grinders, cut-off saws, and radial drills. Students will tour local industry and learn about career opportunities.

Machine Tool Technology II (6231)

Grades: 11-12

Prerequisite: Completion of Machine Tool Technology I with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee

This course is designed to develop and refine student skills in the set-up and operation of all tools, which are basic to the machinist. Students learn nomenclature functions and capabilities of engine lathes, drill presses, milling machines, grinders, cut-off saws, and radial drills. The students will begin a series of projects that will demonstrate, upon completion, mastery of the machine used to make the advanced project.

Machine Tool Technology III - Computer Numerical Control (CNC) Programming and Operations (6232)

Grades: 11-12

Prerequisites: Completion of Machine Tool Technology II with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee

Students participate in an advanced study of CNC equipment and techniques. Computer-controlled milling and turning processes are taught using the latest technology in the machine tool industry. The training equipment used in Machine Tool Technology meets industry standards.

Certifications

OSHA 10



CAREER OPPORTUNITIES

CAD/CAM Operator

CNC Operator

CNC Programmer

Machine Tool Sales

Machinist

Maintenance Technician

Quality Control

Tool and Die maker



MEDIA TECHNOLOGY

In Media Technology, students are active participants in the production process: they create scripts, visualize shot sequences, and shoot and edit their own footage to create finished productions. In the Advanced Animation class -- which counts as a Computer Science credit for the South Carolina High School Diploma -- students use state-of-the-art software and computers to create realistic, computer-generated animation projects. Students will gain experience in object modeling and character animation, providing a rich foundation in the field. Students will have the opportunity to earn the Adobe Certified Associate Certification in Premiere Pro.

100299

Media Technology I (6124)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee

This introduction course provides the foundations for success in Media Technology. It focuses on video production, giving basic instruction in scripting, camera operation, and editing. This course also covers job skills and distribution formats for a variety of mediums including Internet, film, and broadcast. Students will produce finished products, following the production from initial concept to finished video.

Media Technology II (6125)

Grades: 11-12

Prerequisite: Completion of Media Technology I with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee

In Media Technology II, students expand their experience and knowledge in all aspects of the production process. Students learn to use the tools in Adobe Creative Suite, including Premiere Pro, After Effects and Audition. These industry-standard programs provide students the tools they need to take their skills to the next level in editing, effects, and audio production. This second level course also addresses the theory behind video production practices, as well as the use of advanced equipment.

Advanced Animation (5351)

Grades: 10-12

Prerequisite: Completion of Media Technology I. Students are allowed to take Advanced Animation before Media II. Students must have an 80 or above (or Director approval) to move to the next course chosen. (An average of 80 or above in Geometry is strongly recommended.)

Approximate Fees: \$15 Swofford fee

Students will be able to master the fundamentals of 3D animation and design. Instruction uses Autodesk's Maya, an industry-leading animation program which is used in television, film and video game animation. Students design and create object and character models, animate them and produce a finished short for their final project. Taught in the spring, this class also covers college/career-ready basics including resume writing, college applications, and financial aid.

Certifications

Adobe Premiere Pro



CAREER OPPORTUNITIES

Camera Operator

Feature Animator

Medical Animator

Scriptwriter

Small Business Owner

Social Media Content Creator

Video Editor

Videographer

Web Developer



NETWORKING

Every industry needs network administrators and support technicians. If you like solving problems and would like to work as a “network mechanic,” Networking will be the course for you. Furthermore, any Networking course will count as a Computer Science unit for the South Carolina High School Diploma.

110901

Networking Fundamentals I (5310)

Grades: 10-12

Prerequisite: None

Approximate Fees: \$15 Swofford fee

Networking Fundamentals provides students with classroom, laboratory, and hands-on experience in current and emerging networking technologies. Instruction is based on industry domains including network architecture; network operations; network security; network troubleshooting; industry standards, practices, and network theory; and workplace readiness and leadership skills. In addition, instruction and training are provided for the proper care, maintenance, and use of networking software, tools, and equipment. Particular emphasis is given to the use of critical thinking skills and problem-solving techniques.

Advanced Networking II (5311)

Grades: 11-12

Prerequisite: Completion of Networking I with a minimum of an 80 average and/or Director recommendation

Approximate Fees: \$15 Swofford fee

Advanced Networking II builds upon Networking Fundamentals I while also covering Cisco CCNA Switching, Routing and Wireless Essentials. The Cisco CCNA SR&W course is a gateway to entry-level networking jobs and IT careers. In this course, students will develop a working knowledge of routing, switching, network applications, protocols, and services.

Cyber Security Fundamentals (5370)

Grades: 11-12

Prerequisites: Completion of Networking II with a minimum of an 80 average and/or Director recommendation

Approximate Fees: \$15 Swofford fee

Cyber Security Fundamentals introduces the core concepts and terminology of cyber security and information assurance. The course examines how the concept of security integrates into the importance of user involvement, security training, ethics, trust, and best practices management. Cisco IT Essentials is covered as well. Cisco ITE covers fundamental computer and career skills for entry-level IT jobs. The IT Essentials curriculum includes hands-on labs that provide practical experience. Virtual tools help students hone their troubleshooting skills and practice what they learn.

Certifications

CompTIA Net+
Digital Literacy



CAREER OPPORTUNITIES

Desktop Support
Technician

Help Desk Technician

Information
Technology Specialist

Network Administrator

Network Engineer/
Analyst



WELDING TECHNOLOGY

In Welding Technology, students will receive instruction in cutting metal and reading blueprints, while learning a variety of welding techniques. Creativity and artistry are also fostered and encouraged in Welding Technology.

480508

Welding Technology I (6340)

Grades: 10-12

Prerequisite: Minimum grade of 70 in Algebra I or minimum 70 average in Foundations/Intermediate Algebra

Approximate Fees: \$15 Swofford fee. Students must also furnish their own welding hoods and gloves.

Students will Gas Metal Arc weld (MIG) and cut using the oxyfuel process. MIG welding is using a continuous consumable wire electrode in the welding process. Students will apply a MIG weld with the semiautomatic machine. This process is used in the fabrication industry. Oxyacetylene welding (OAW) process is used for general maintenance, auto body shops, and making small repairs. Students will employ the oxyacetylene process to join commercial metals and alloys. Instruction also includes using the oxyacetylene flame for cutting metal, case hardening, annealing, and in any practical situation that involves joining metal parts. Students receive training in blueprint reading and the meaning of lines, views, dimensions, structural shapes, and metal fabrication.

Welding Technology II - Shielded Metal Arc Welding (SMAW) (6341)

Grades: 11-12

Prerequisite: Completion of Welding I. It is not necessary for Welding courses to be taken in sequential order; however, a student must have an 80 or above (or Director approval) to move to the next course chosen.

Approximate Fees: \$15 Swofford fee. Students must also furnish their own welding hoods and gloves.

In the SMAW course, students will identify the different steels and metals along with their respective properties. Emphasis is placed upon the procedures to use in order to avoid or minimize difficulties in performing a successful weld on alloy steels and non-ferrous metals.

Welding Technology III - Gas Tungsten Arc Welding (TIG)

Grades: 10-12

Prerequisite: Completion of Welding I. It is not necessary for Welding courses to be taken in sequential order; however, a student must have an 80 or above (or Director approval) to move to the next course chosen.

Approximate Fees: \$15 Swofford fee. Students must also furnish their own welding hoods and gloves.

Students will weld metals by heating them between a non-consumable tungsten electrode in all four positions – flat, horizontal, vertical, and overhead. Students learn to work with three types of metals including carbon, stainless steel, and aluminum. These are used in industry for precision welding.

Certifications

OSHA 10



CAREER OPPORTUNITIES

Certified Welding Inspector (CWI)

Fabricator

Retail Sales

Welder

Welding Engineer

Welder/Fitter

Welding Foreman



PROTECTIVE SERVICES

If you have a desire to help people and serve the public, there are few careers as rewarding as being a firefighter or law enforcement officer. Protective Services consists of two programs that may be taken separately, or students may choose enroll in both. In the Fire Fighter and Law Enforcement programs, students will benefit from many hands-on activities and off-campus field trips, while learning the basic skills necessary for each career area. Physical training is an important component of both programs.

430203

Fire Fighter I (6514)

Grades: 10*-12

Prerequisite: *Student must turn 16 years of age by October 1 of the current school year. (This does not apply to Law Enforcement Services.)

Approximate Fees: \$15 Swofford fee + \$40 for uniforms

This course provides the student with the fundamentals of firefighting and is designed to combine with Fire Fighter II to provide the student the opportunity to achieve the certification of Firefighter I and Firefighter II through International Fire Service Accreditation Congress (IFSAAC). The course covers fire ground skills including fire behavior, fire extinguishers, personal protective equipment, SCBA (self-contained breathing apparatus), ladders, fire hoses, fire streams, search and rescue, and interior fire attack.

NOTE: Students must take Fire Fighter I and Fire Fighter II in consecutive semesters (fall and spring). This does not apply to Law Enforcement Services.

Fire Fighter II (6515)

Grades: 10-12

Prerequisite: Completion of Fire Fighter I with a minimum of an 80 average or Director recommendation.

Approximate Fees: \$15 Swofford fee + \$25 for additional uniform requirements

This course provides the student with the opportunity to achieve the certification of Firefighter I and Firefighter II as recognized by the International Fire Service Accreditation Congress (IFSAAC) and the State of South Carolina. The course covers building construction, ropes and knots, forcible entry, ventilation, water supply, salvage, overhaul, communications, fire prevention, public fire education, and community risk reduction.

Other Certifications to be earned:

- First Aid/CPR/AED
- HAZMAT Awareness/Operations
- Auto Extrication
- Fundamentals of Firefighting
- Firefighter I & Firefighter II



CAREER OPPORTUNITIES

Crime Scene Investigator

Firefighter

Police Officer

Public Safety Officer



PROTECTIVE SERVICES

Law Enforcement Services I (6510)

430107

Grades: 10-12

Prerequisite: None.

However: Strong writing and communication skills are necessary. Law enforcement personnel must write reports that are admitted as evidence into courts of law.

Approximate Fees: \$15 Swofford fee + \$40 for uniforms

This course is designed for students interested in law enforcement as a career and focuses on current and standard police procedures. The students will study the history of the criminal justice system, professional ethics in law enforcement, the duties and responsibilities of law enforcement, and incident report writing.

Law Enforcement Services II (6511)

Grades: 10-12

Prerequisite: Completion of Law Enforcement Services I with a minimum of an 80 average and/or Director recommendation.

Approximate Fees: \$15 Swofford fee + \$40 for additional uniform requirements

This course will allow students to prepare for a future career in the field of law enforcement. Students will participate in search and arrest techniques, traffic stops, investigative procedures, courtroom procedures, and evidence collection and preservation.

Certifications to be earned:

- First Aid/CPR/AED



CAREER OPPORTUNITIES

Crime Scene Investigator

Firefighter

Police Officer

Public Safety Officer



WORK-BASED LEARNING

Rising seniors who have **completed** a Swofford program may request one or two semesters of Work-based Learning (“Co-op”) when they register for classes for their senior year. All prerequisites (below) must be met. (**Note to high school counselors: please contact Swofford for approval when a rising senior requests these Work-based Learning courses.)

Grade: 12

Prerequisites:

- Completion of the Swofford program
- Swofford instructor recommendation
- Worksite must already be set up and approved by Swofford
- Passing high school classes
- Acceptable discipline record and attendance

Fees: \$15 Swofford fee

Courses:

Workbased Auto Collision (6790)

Workbased Auto Technology (6790)

Workbased Carpentry (6690)

Workbased CulinaryArts (5190)

Workbased Electricity (6690)

Workbased Engineering Drafting & Design (5290)

Workbased Graphic Communications (5290)

Workbased Horticulture (5690)

Workbased Machine Technology (6490)

Workbased Media (5290)

Workbased Networking (5390)

Workbased Welding (6490)

SPARTANBURG MASTER SKILL CENTER



The following courses are offered to Spartanburg County students at the new Spartanburg County Master Skill Center, which opened in August 2020 in Spartanburg, SC. Transportation will be provided. Eligible students may register for these courses during the registration process at your high school. Speak to your school counselor or contact Mr. Rothell at Swofford Career Center if you have questions.

Barber/Master Hair Care 1 & 2 (6158/6160)

Grades: 11-12

8 units/4 consecutive semesters

Only rising 11th graders may begin this two-year program.

In order to continue the program as Seniors, students must have a minimum 70 average in Barber/Master Hair Care 1 and have earned 500 clock hours.

In accordance with State licensing requirements, students must provide a copy of their Social Security card and State-issued photo ID prior to beginning the program.

Barber/Master Hair Care program prepares individuals to shave and trim facial/neck hair and beards, cut and dress hair, fit hairpieces, give facial and scalp massages, apply cosmetic treatments, and to prepare for licensure as professional barbers at various levels. Instruction includes facial shaving, beard and mustache shaping and trimming, shampooing, hair cutting, hair styles and styling art, facial treatments and massage, chemical applications, hair and scalp anatomy and physiology, hairpiece and toupee fitting, equipment operation, health and safety, customer service, and shop business practices.

HVAC Technology 1 & 2 (6003/6004)

Grades: 10, 11, 12

In order to advance to Level 2, students must have a minimum 75 average in HVAC Technology 1.

This program provides students with the basic knowledge of air conditioning systems, heating systems, and basic refrigeration. Basic electricity, electronics, refrigerant recovery, automobile a/c systems and pneumatic controls are studied. Students who successfully complete the required competencies will have the opportunity to participate in cooperative work experiences. Level 2 is a continuation of Level 1 with Work-Based Learning opportunities.

Plumbing 1 & 2 (6280/6281)

Grades: 10, 11, 12

In order to advance to Level 2, students must have a minimum 75 average in Plumbing 1.

Plumbers install, repair, and maintain pipes, fixtures, and other plumbing equipment used for water distribution and waste water disposal in residential, commercial, and industrial buildings. They are employed in maintenance departments of factories, plants, and similar establishments, by plumbing contractors, or they may be self-employed. Level 2 is a continuation of Level 1 with Work-Based Learning opportunities.

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