



ANDERSON DISTRICTS 1 & 2 CAREER & TECHNOLOGY CENTER

Serving Belton-Honea Path, Palmetto, Powdersville and Wren High Schools
702 Belton Highway ♦ Williamston, SC 29697
www.andersonctc.org ♦ 864.847.4121

The following programs are offered at the Career and Technology Center. Students must complete the Center's registration form in addition to the high school registration form. According to Board Policy, courses with low enrollment may be canceled. If a program is canceled or too many students enroll in a class, students may be placed in one of their other choices. Bus transportation is provided for all students.

Programs	Clusters	Majors
Automotive Collision	Transportation, Distribution and Logistics	Automotive Collision
*Automotive Technology	Transportation, Distribution and Logistics	Automotive Technology
*Computer Services	Information Technology	Computer Services
Construction	Architecture and Construction	Construction
Cosmetology	Human Services	Cosmetology
Culinary Arts	Hospitality and Tourism	Culinary Arts, Hospitality Management
Digital Art Design	Arts, A/V Technology & Communications	Digital Design
Firefighting	Law, Public Safety, Corrections & Security	Firefighting
Graphic Communications	Arts, A/V Technology & Communications	Graphic Communications
Health Science	Health Science	Health Science
Law Enforcement	Law, Public Safety, Corrections & Security	Law Enforcement
Marketing	Marketing	Marketing Communications
*Mechatronics	Manufacturing	Mechatronics
Media Broadcasting	Arts, A/V Technology & Communications	Media Broadcasting
Nail Technology	Human Services	Nail Technology
Plant, Animal and Wildlife Sciences	Agricultural, Food and Natural Resources	Agriculture
*PLTW BioMedical Science	Science, Tech, Engineering & Mathematics	Biomedical Science
*PLTW Engineering	Science, Tech, Engineering & Mathematics	Engineering
Skin Care	Human Services	Esthetics
*Welding/Metal Working Technologies	Science, Tech, Engineering & Mathematics	Welding/Metal Working
*Honors/Dual Credit		

STATEMENT OF NONDISCRIMINATION: In accordance with federal law this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age or disability.

Courses Listed Alphabetically:

AUTOMOTIVE COLLISION

The Automotive Collision program provides hands-on training in a fully integrated, state-of-the-art facility. The program content includes training on modern equipment such as a state-of-the-art, downdraft, infrared cure system paint, DuPont computerized paint mixing system, and a Car-o-liner rack structural measurement and alignment system. The course also includes training in communication, leadership, human relations, employability skill and safe efficient work practices. This NATEF Certified program, prepares students for employment in the auto body and refinishing industry and for post-secondary education.

Courses:	Sophomore Class:	Auto Collision 1	1 unit	602087CW
	Junior Class:	Auto Collision 2	2 units	602187CD
	Senior Classes:	Auto Collision 3	2 units	602287CD
		Auto Collision 4	2 units	602387CD

AUTOMOTIVE TECHNOLOGY (Dual Credit)

The Automotive Technology program is a hands-on training facility with a state-of-the-art support lab, computer training lab and engine training lab. Students will use the main support lab to learn vehicle theory and operation in addition to repair techniques using equipment such as the Snap-on Diagnostic Scan Tool, Hunter Four-Wheel Alignment System, and much more. The students will also have the ability to work on several trainer vehicles as well as an opportunity for live repair work. The majority of the student's time will consist of practical hands-on application through the NATEF (National Automotive Technicians Education Foundation) curriculum. The course also includes training in communication, leadership, human relations, employability skill and safe efficient work practices. In addition, students will earn college credit from Tri-County Technical College their junior and senior year, graduating with an Automotive Engine Electrical Systems Certificate and an Automotive Braking Systems Certificate. **All students applying to this program their junior and senior year must meet the following Tri-County Technical College eligibility requirements: 2.8 GPA and a score of 37 or higher on the reading portion of the COMPASS exam.**

Courses:	Sophomore Class:	Auto Technology 1	1 unit	603087CW
	Junior Class:	Auto Technology 2	2 units	603187CD
	Senior Classes:	AUT 101 (Fall)	1 unit	636000EW
		AUT 132 (Fall)	1 unit	636300EW
		AUT 156 (Spring)	1 unit	832000EW
		AUT 231 (Spring)	1 unit	832100EW

COMPUTER SERVICES (Honors Credit)(Computer Science Credit)

Computer Services is designed as hands on program to train students in various aspects of the Information Technology field combining software, hardware, computer forensics and networking techniques. Students are introduced to Computer Forensics in the sophomore year. During the junior year, students will learn how to solve basic problems involving assembling, upgrading and troubleshooting personal computers. Students may be eligible for A+ Certification which is obtained by successfully completing exams in the areas of computer hardware and operating systems. Seniors gain skills in the area of computer networking. Students will also learn to develop applications using the Visual Basic programming language. Students may also seek industry certification such as CompTIA's Net+ Certification or Microsoft MCP Certifications. Job growth in the information Technology field is expected to be much faster than in other fields. **All students applying to this program must meet the following eligibility requirements: Algebra I or recommendation from their Math Teacher.**

Courses:	Sophomore Classes	Computer Forensics (non-honors)	1 unit	537400CW
	Junior Classes	Computer Service Technology	1 unit	532000HW
		Computer Service Technology	1 unit	532100HW
	Senior Classes	Computer Service Technology	1 unit	532200HW
		Computer Service Technology	1 unit	532300HW
		Computer Programming 1	1 unit	505000HW
	Computer Programming 2	1 unit	505100HW	

CONSTRUCTION

Construction courses are designed to prepare students for college and employment in the building construction industry. The program provides necessary skills to enter the home-building, general contracting, and related industries. Sophomore students are introduced to job site safety, tools of the trades, employability skills, and basic blueprint reading skills. Upper level students gain knowledge and skills in the areas of site layout and distance measuring, concrete handling, form building, and residential framing skills. In addition, students are introduced to basic residential electrical wiring and plumbing skills used in plumbing both residential and commercial applications. Emphasis is placed on application of classroom knowledge through a variety of "hands on" projects.

Sophomore Class:	Construction 1	1 unit	606000CW
Junior Class:	Construction 2	2 units	606100CD
Senior Classes:	Construction 3	2 units	606200CD
	Construction 4	2 units	606300CD

COSMETOLOGY

Cosmetology is designed to prepare students to qualify for the state board licensing examination upon completion of the program. Students receive training in the care of hair, skin, and nails. The course study includes scalp treatment, hair shaping, hair styling, setting, permanent waving, tinting, coloring, and chemical relaxers. Care of skin and nails includes manicures and pedicure, massages, facials, applying makeup and hair removal. Also included in the course of study is salon planning and management. **All students applying to this program must meet the following eligibility requirements: A submitted essay by the assigned deadline.**

Courses:	Sophomore Class:	Cosmetology 1	2 units	615087CD
	Junior Class:	Cosmetology 2	2 units	615187CD
	Senior Classes:	Cosmetology 3	2 units	615287CD
		Cosmetology 4	2 units	615387CD

CULINARY ARTS

Culinary Arts is a challenging course offering training in all aspects of food preparation and service. The introductory program covers kitchen orientation, safety and sanitation, as well as basic kitchen technique and food preparation. The junior and senior classes incorporate the ProStart curriculum. Students will become proficient in knife skills, food safety, kitchen essentials, recipe adjustment, purchasing, food costing, menu planning, preparation and service, basic nutrition, garnishing techniques, and cake decorating skills. Opportunities to compete in culinary and restaurant management competitions are also available. Students may also earn the ProStart Certificate of Achievement and/or national ServSafe certifications.

Courses:	Sophomore Class:	Intro Culinary Arts	1 unit	572287CW
	Junior Class:	Culinary Arts 1	2 units	572087CD
	Senior Classes:	Culinary Arts 2	2 units	572101CD
		Culinary Arts 3	2 units	572102CD

DIGITAL ART DESIGN (Computer Science Credit)

Digital Art Design teaches students to cross technical and visual boundaries using the elements of design and computer graphics. Using state-of-the art computers and software (such as Adobe's Creative Suite 5.5) and equipment, you will learn electronic imaging and multimedia. This cutting edge technology will assist in preparing for choices in marketing, advertising, and printing careers as well as post-secondary education.

Courses:	Sophomore Class:	Digital Art Design 1	1 unit	612087CW
	Junior Class:	Digital Art Design 2	2 units	612187CD
	Senior Classes:	Digital Art Design 3	2 units	612200CD
		Digital Art Design 4	2 units	612300CD

FIREFIGHTING

Firefighting is designed to give students the knowledge and understanding of the basic concepts of emergency and fire services. Students will learn about safety, career opportunities and pathways with the fire and EMS career fields; federal, state and local regulations/standards; technological skills, operation of emergency vehicles and much more. CPR, First Aid and First Responder Certifications are available. Students may also receive IFSAC Firefighter Certification I, IFSAC Firefighter Certification II, Auto Extrication, Rescuing the Rescuer, Hazardous Materials Awareness and Hazardous Materials Operations through the South Carolina Fire Academy.

Courses:	Sophomore Class:	Intro Firefighting	1 unit	650501CW
	Junior Class:	Firefighting 1	2 units	651200CD
	Senior Classes:	Firefighting2	2 units	651300CD
		First Responder	1 unit	651301CW
		Advanced Firefighting	1 unit	651302CW

GRAPHIC COMMUNICATIONS (Computer Science Credit)

Graphic Communications is designed to introduce students to the total printing production process from design and electronic imaging through press work and finishing/bindery operations. It prepares students for the broad range of employment opportunities available in the printing industry. A balance of classroom study and practical application assures the development of a solid theoretical background, good production skills and appropriate work attitudes. All design work is created on iMac computers using Adobe Creative Cloud. The major printing processes studied are Flexography, Screen Printing and Digital Printing. Additional areas studied include dye sublimation, embroidery, vinyl letter cutting and glass etching. Graduates of this program may pursue careers in graphic design, electronic imaging, quality assurance, platemaking, press assistant, bindery and finishing work, to name a few. Employment may be found in small printing shops, large printing plants or in the graphic arts departments of companies that publish materials in-house.

Courses:	Sophomore Class:	Graphic Communications 1	1 unit	620001CW
	Junior Class:	Graphic Communications 2	2 units	620100CD
	Senior Classes:	Graphic Communications 3	2 units	620200CD
		Graphic Communications 4	2 units	620300CD

HEALTH SCIENCE

Health Science provides student an innovative, integrated learning environment designed to provide students with the medical skills and training necessary to succeed in postsecondary healthcare career education and/or to successfully transition into the healthcare workforce. The program provides training in medical terminology, first aid, anatomy, physiology, and other subjects that are common in all health careers. During the senior year, students will participate in a clinical study which enables the student to intern in a health related field or complete the CNA Clinical Course. Health Science 3 includes a focus on all the human body systems and how they work (anatomy and physiology).

Courses:	Sophomore Class:	Intro to Health Science	1 unit	559900CW
	Junior Class:	Health Science 1	1 unit	555000CW
		Health Science 2	1 unit	555103CW
	Senior Classes:	Health Science 3	1 unit	555200CW
		CNA (Certified Nursing Assistant) Clinical	1 unit	555602CW
		Health Science Clinical	1 unit	556001CW

LAW ENFORCEMENT

Law Enforcement is designed for students who are interested in law enforcement as a career or in one of the many related fields to include juvenile justice, probation and parole, corrections, forensics, federal law enforcement and military police. The sophomore class will be introduced to several "hands on" practical skills such as handcuffing, baton tactics, finger printing and latent print development. Juniors will concentrate on patrol tactics, criminal law, court procedure and constitutional law. Seniors will concentrate on advanced patrol, criminal investigations, forensics and dispatching. The 911 dispatching course will offer a national certification upon successful completion of a course study and final examination. If space available, seniors may enroll in the First Responder course through the Firefighting program.

Courses:	Sophomore Class:	Intro Law Enforcement	1 unit	650587CW
	Junior Class:	Law Enforcement 1	2 units	651087CD
	Senior Classes:	Emergency Telecommunicator (ETC)	1 unit	651100CW
		Forensics	1 unit	651101CW
		Law Enforcement 2	2 units	651102CD

MARKETING (Computer Science Credit)

The Marketing program prepares students for college and high demand business and marketing careers. Students learn how to promote products, services, and ideas using various forms of digital advertising: television, radio, internet, social media, mobile, and more. They gain the skills and knowledge needed to start their own business. Sophomores explore the field of digital multimedia and develop technical skills through hands-on projects involving audio, video, graphics, animation, game design, and web development. Juniors explore traditional marketing and video marketing as they learn to develop compelling visual marketing messages in the form of Web-based videos, blogs, webcasts, print ads, press releases, and more. Seniors explore social media platforms such as Facebook, Twitter, YouTube, and Flickr as they create a social media plan for a business. Seniors also learn to design professional websites using HTML, Dreamweaver, and related software. Career opportunities in this field include Marketing Manager, Web Marketing Specialist, Social Media Manager, Public Relations Specialist, Community Manager, Media Buyer, and Entrepreneur.

Courses:	Sophomore Class:	Digital Multimedia	1 unit	503001CW
	Junior Classes:	Business Marketing	1 unit	542100CW
		Digital Media Marketing	1 unit	542200CW
	Senior Classes:	Entrepreneurship	1 unit	540000CW
		Social Media in Business	1 unit	503400CW
		Web Page Design & Development 1	1 unit	503100CW
		Web Page Design & Development 2	1 unit	503300CW

MECHATRONICS (Dual Credit)

This two-year program offers dual credit through Tri County Technical College. Mechatronics is a dynamic field that changes daily with the rapid improvements in technology and computer systems. If you like to work with highly automated equipment, computers, hydraulics and pneumatics, and if you like to see what things are made of and how they work using both your mind and your hands, you will enjoy this program. Mechatronics is a new interdisciplinary field involving mechanical systems, instrumentation, electronics, robotics, automation, computers and control systems. Systems are networked together to meet the demands of highly automated manufacturing processes. Mechatronics technicians are trained to master the skills necessary to install, maintain and repair this sophisticated equipment. Industry depends on well-trained electromechanical technicians to keep production machinery operating. Students learn skills to diagnose, repair, install, and service electrical, hydraulic, pneumatic, and electromechanical systems. Students may continue their education at TCTC after their senior year and receive an associate (two-year) degree in Mechatronics in one year. **All students applying to this program their junior and senior year must meet the following Tri-County Technical College eligibility requirements: 2.8 GPA and a score of 37 or higher on the reading portion of the COMPASS exam.**

Courses:	Sophomore Class:	EEM 117 AC/DC Circuits I	1 unit	611500EW
		IMT 131 Hydraulics and Pneumatics	1 unit	624500EW
	Junior Classes:	EEM 217 AC/DC Machine & Elec. Codes	1 unit	661600EW
		EEM 161 Industrial Instruments	1 unit	661500EW
	Senior Classes:	IDS 106 Employment Development Skills	1 unit	482000CW
		EEM 118 AC/DC Circuits II	1 unit	611800EW
		IMT 141 Electrical Control Devices	1 unit	827000EW
		QAT 101 Intro to Quality Assurance	1 unit	860200EW

MEDIA BROADCASTING (Computer Science Credit)

This program is a general introduction to students interested in pursuing a career in media broadcasting. In this course, you will learn the basic skills needed to work in radio, motion pictures, television, and other electronic communications media. Students will develop formal critiquing skills, study the history of film and television, the fundamentals of advertising, and take a "hands-on" approach to developing and demonstrating the skills needed in all aspects of film making. Examples of projects the students will be involved in are stop-motion animation, film criticism, advertisement production, music video production, web videos, and full length films. Productions in the CTC Radio Station "WBBP-The Pulse" and TV facilities offer an opportunity to experience the field of broadcasting. Class time will include discussion of current trends and issues in the field, with students developing an understanding of broadcast media. Whether it is information or entertainment, the wide appeal of the electronic media has created an increasing need for people skilled in the digital video/radio production arts.

Courses:	Sophomore Class:	Intro to Media Broadcasting	1 unit	612400CW
	Junior Class:	Media Broadcasting 2	2 units	612401CD
	Senior Classes:	Media Broadcasting 3	2 units	612500CD
		Media Broadcasting 4	2 units	612501CD

NAIL TECHNOLOGY (Currently Accepting Juniors & Seniors)

Nail Technology program is designed to prepare students to take the national certification exams for Nail Technologist. Nail Technology students receive training in the art and science of the care and beautification of nails. The course of study includes instruction in diseases and disorders, chemistry, biology, and anatomy and physiology of the arms, hands, and feet. Manicures, pedicures, tips, sculptures, and wraps are incorporated by means of theory and practical application on both mannequins and live models. Also included in the course of study is salon planning and management.

Courses: **Junior Class:**
 Senior Class:

PLANT, ANIMAL AND WILDLIFE SCIENCES

Plant, Animal and Wildlife Science is designed to prepare students for entry-level positions in the many aspects of plants, animal science, wildlife, forestry, and turf/lawn/golf course management. Graduates of the program may also pursue a college degree in a related area at a two- or four-year college. Typical learning activities include growing, establishing and maintaining nursery plants, greenhouse crops, and turf grass; managing ornamental horticulture enterprises; designing landscapes; and studying golf course management. Students will be introduced to small animal care which would be very beneficial for those planning a career in veterinary science. Students will learn about the conservation of natural resources related to plants and wildlife including biotechnology. Students will also assess environmental factors affecting forest establishment and growth. Participation in personal and community leadership and FFA activities is an integral part of this program.

Courses:	Sophomore Class:	Agriculture Science & Tech for WP	1 unit	562000CW
	Junior Classes:	Horticulture for the Workplace 1	2 units	565200CD
	Senior Classes:	Horticulture for the Workplace 2	2 units	565300CD
		Equipment Operation & Maintenance	1 unit	562100CW
		Introduction to Veterinary Medicine	1 unit	561300CW

PROJECT LEAD THE WAY: BIOMEDICAL SCIENCE (Honors Credit) (College Credit)

Biomedical Sciences program is a **Project Lead The Way** curriculum designed to provide rigorous and relevant curriculum that is project and problem based in order to engage and prepare high school students for the post-secondary education and training necessary for success in the wide variety of careers associated with the Biomedical Sciences. The **Principles of Biomedical Science** involves the study of human medicine, research processes and an introduction to bio-informatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia and infectious diseases. **Human Body Systems** class will engage the students in the study of basic human physiology. **Medical Interventions** Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. **Biomedical Innovation** class is a capstone course that gives student teams the opportunity to work with a mentor, identify a science research topic, conduct research, write a scientific paper, and defend team conclusions and recommendations to a panel of outside reviewers. Students may receive college credit each year by passing a national exam. **All students applying to this program must meet the following eligibility requirements: Algebra I or recommendation from their Math or Science Teacher.**

Courses:	Sophomore Class:	Principles of Biomedical Science	2 units	558000HD
	Junior Class:	Human Body Systems	2 units	558100HD
	Senior Classes:	Medical Intervention	1 unit	558200HW
		Biomedical Innovation	1 unit	558300HW

PROJECT LEAD THE WAY: ENGINEERING (Honors Credit) (Computer Science Credit) (College Credit)

The nationally recognized program, **Project Lead The Way**, has developed a sequence of courses which, when combined with college preparatory mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering and engineering technology prior to entering college. This is a program that will help students understand the field of engineering/engineering technology. Students use 3-D computer modeling software and explore various technology systems and manufacturing processes to learn how engineers and technicians use math, science and technology in an engineering problem solving process to benefit people. The program also includes concerns about social and political consequences of technological change. This program is highly recommended for those students planning to major in engineering. Students may receive college credit each year by passing a national exam. **All students applying to this program must meet the following eligibility requirements: Algebra I or recommendation from their Math or Science Teacher.**

Courses:	Freshman Class:	Introduction to Engineering	1 unit	605102HW
		Principles of Engineering	1 unit	605000HW
	Sophomore Classes:	Digital Electronics (one other elective)	1 unit	605200HW
	Junior/Senior Classes:	Aerospace Engineering	1 unit	605600HW
	(select 2)	Civil Engineering & Architecture	1 unit	605800HW
		Computer Integrated Manufacturing	1 unit	605300HW
		Computer Science Principles	1 unit	609600HW
		Environmental Sustainability	1 unit	637400HW
	Senior Class:	Engineering Design & Development	1 unit	605400HW
		(one other elective)		

SKIN CARE (Currently Accepting Juniors)

Skin Care program is designed to prepare students to take the national certification exams for an Esthetician. In the Skin Care classes, students may become certified as a licensed skin care specialist. They advise clients how to maintain smooth clean skin as well as select colors and types of makeup. Student receives instruction in makeup application techniques. They may perform such duties as applying chemical peels, cleansing client's skin with water, creams and/or lotions; providing facial massages, removing body and facial hair by applying wax, and learn about other skin care treatments.

WELDING/METAL WORKING TECHNOLOGIES (Dual Credit)

Welding/Metal Working Technology involves the study of the weld-ability of metals, the physical properties of the metals, and the testing of welded joints. Laboratory experiences are provided which bring the student in contact with the latest developments in welding techniques. The student will develop skills in shielded metal arc welding, also gas shielded arc processes T-I-G and M-I-G, oxyacetylene welding, heating, cutting, and brazing ferrous and non-ferrous metals. Equipment includes state-of-the-art welding machines, a 90-ton Iron Worker, and a Vertical Milling Machine and Lathe. The course also includes training in communication, leadership, human relations, employability skill and safe efficient work practices. In addition, students will earn college credit from Tri-County Technical College their senior year, graduating with an SMAW Structural Welding Certificate. **All students applying to this program their senior year must meet the following Tri-County Technical College eligibility requirements: 2.8 GPA and a score of 37 or higher on the reading portion of the COMPASS exam.**

Courses:	Sophomore Class:	Welding Technology 1	1 unit	634087CW
	Junior Class:	Welding Technology 2	2 units	634187CD
	Senior Classes:	WLD 111	1 unit	635100EW
		WLD 115	1 unit	636700EW