

Career and Technical Education Board Report – December 2024

The mission of Career and Technical Education (CTE) is to empower our students to successfully transition into post-secondary and career opportunities to become positive, contributing members of society. CTE students in our district gain technical and high-level academic skills, thus equipping them to be lifelong learners.

CTE Goals:

- Explore career interests and plan for postsecondary and career opportunities through work-based learning experiences
- To increase the number and types of industry certification and training opportunities available for BISD students and CTE teachers
- To provide additional dual enrollment (college credit) opportunities for students in high school
- To encourage and support participation in Career and Technical Student Organizations (CTSO's) in all program areas such as FFA, SkillsUSA, HOSA, TAFE, and FCCLA where students participate in leadership and develop life-long skills such as interpersonal relationships, teamwork, setting and achieving goals as well as competing in contests where they apply what they have learned in their respective CTE courses in real-world scenarios

Brownwood ISD's CTE programs offer a sequence of courses that provide students with coherent and rigorous content. This content is aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions. CTE allows students to train for high-skill, high-wage, and high-demand careers. These programs also prepare students to be successful in a rapidly changing workforce and equip them to make informed decisions about future college and career pathways.

Brownwood ISD offers five endorsements:

- Business & Industry
- Public Service
- Arts & Humanities
- Multi-Disciplinary
- STEM (Science, Technology, Engineering, Mathematics)

BISD continues to foster the relationships that have been developed with our local institutions and industries. Some of these include Ranger College, TSTC, Hendrick Medical Center, Bruner Chevrolet, Big Country Ford, and various local pharmacies and nursing homes. These local stakeholders' input is invaluable when making decisions regarding local funding and program implementation and expansion.

Here are a few of the CTE programs/courses students have the opportunity to participate in:

FAA Drone Pilot Certification (STEM/Business & Industry)

This program of study partners with Ranger College where students may earn 3 elective hours of college credit.



This course is designed to prepare students to obtain their FAA Part 107 Remote Pilot Certificate, enabling them to operate drones commercially by teaching them the necessary knowledge and skills to pass the FAA drone pilot exam, including drone safety, regulations, flight operations, and mission planning, utilizing hands-on flight training using industry-standard drones.



Photography/Graphic Design (Business & Industry)

In the photography/graphic design program, Yearbook and Photo 2 students just completed yearbook portraits for the entire high school, including staff. The students run the scheduling and organization. The students photographed over 3000 images in 3 days. Currently, the students are performing blemish removal and fixing the glass's glare on the portraits with the help of Graphic Design 1 and Graphic Design 2 students. When they finish, the students will have provided professional services for 900+ students and staff!



Automotive Technology (Business & Industry)

In automotive technology, students gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. The focus of the introductory course is to teach safety, tool identification, proper tool use, and employability. In the advanced courses, BHS partners with Ranger College and is now designated as a P-TECH school. Pathways in Technology Early College High Schools (P-TECH) is a program that allows students least likely to attend college an opportunity to receive both a high school diploma and a credential and/or an associate degree. Through the P-TECH grant, the automotive program has been able to obtain a state-of-the-art Hunter alignment machine. Ranger College has also provided testing and diagnostic equipment for students to use and learn with.



Education and Training (Public Service)

The BHS Educational Interns have been busy this semester! They have partnered with Brownwood's chapter of Sleep in Heavenly Peace this year. Interns participated in a bed build held at Victory Life Church on Saturday, October 19 where they built 21 bed frames for children who are sleeping on the floor in Brown County. The beds are delivered to the houses as families present with a need for beds. Sometimes this is a foster care situation, sometimes it's a move to a new house. Whatever the reason, Sleep in Heavenly Peace's motto is "No child sleeps on the floor in our town," and the BHS Interns contributed their time and energy to serve children and families in Brown County.

The Fall Internship began on October 15, and interns were placed with a mentor teacher in BISD elementary classrooms all over the district to observe, collaborate, plan, and teach in real situations with actual students. Interns are currently serving in 12 classrooms over 3 different elementary campuses in BISD. They have participated in Halloween dress-ups, Homecoming, and Red Ribbon Week activities, helped teach small groups, pulled out students for more targeted instruction, taught read-alouds in literacy classes, helped teachers prepare for activities and lessons, coached students in PE classes, and so much more that comes with teaching and coaching students!

In our classroom, they have received instruction and training in Interactive Read Alouds, Guided Reading, Independent Reading, watched all teacher compliance videos, studied the Code of Ethics for Texas Educators, and created themed bulletin board displays in our classroom and hallway.



Welding (Business & Industry)

Introduction to welding introduces welding technology with an emphasis on basic welding laboratory principles and operating procedures. It also provides students with the knowledge, skills, and technologies required for employment in the welding industry. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success. BHS students are provided the opportunity to gain dual credit through Ranger College as well as the opportunity to receive AWS welder certification. This year Ranger College provided 3 process welders for the welding shop.



Culinary Arts (Business & Industry)

Culinary Arts emphasizes the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. Intro to Culinary Arts is designed for the beginner to learn basic food preparation skills while Culinary Arts and Advanced Culinary Arts focus on preparation techniques, recipe reading, and cooking methods. Students are introduced to regional and global foods. The culinary arts classes had some Halloween fun and were allowed to create their designs. They most recently helped serve the Thanksgiving meals at the elementary campuses.



Health Science (Public Service)

The Health Science pathway at Brownwood High School is growing this year. There are 25 students in the Certified Nursing Assistant Program, 21 Students in the Health Science Clinical Rotation, and 15 students in the Pharmacy Technician Program. Each of these students is a part of the clinical experience where they get to shadow community members. Some of the businesses that support our program are Brownwood Nursing and Rehab, Early Care Inc, Pecan Bayou Nursing Home, Docs Pharmacy in Brownwood and Early, Walgreens, Austin Avenue Pet Clinic, Kirkland Dentistry, Kings Physical Therapy, Boren Associates, Jacob's Family Pharmacy and Hendrick Medical Center. We expect to have a higher number of senior students obtaining certifications in the spring. We also partnered with the Big Country Area Health Education Center (AHEC) to have scrubs donated to our junior clinical students. On December 6 we will be attending the AHEC Junior Scholars program at Texas Tech University Health Science Center in Abilene.



Through Hendrick Medical Center, we partnered with the Texas A&M Rural Medicine Program to have medical students talk with our upperclassmen about medical school and what it is like to be a medical student. Medical student Amanda Figueroa came to the classroom and taught the students hands-on skills, including auscultation.



Our underclassmen programs are also growing, and many of them are participating in HOSA, our student organization. We have 99 members in HOSA this year. Recently, the HOSA officers organized a Halloween meeting, a blood drive, and a community service opportunity with Good Samaritan. HOSA is truly a student-led organization as the student officers lead this program to be a servant organization that strives to build leadership and health science knowledge within our student population. HOSA members will be participating in district online testing in December with the chance to advance to the Area competition that will be held in January.



Our students were also selected to partner with Woodland Heights Elementary for a hands-on body system day. These students went to the school and helped teach students about different body systems. This was a great opportunity for these students to mentor the elementary students within Brownwood ISD.

FFA (Business & Industry)

FFA stands for Future Farmers of America, an organization that helps students develop their leadership, personal growth, and career success through agricultural education.

FFA Mission

FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through agricultural education.

FFA Motto

The FFA motto gives members 12 short words to live by as they experience the opportunities of the organization:

Learning to Do, Doing to Learn, Earning to Live, Living to Serve.

District LDE (Leadership Development Events) 2024 Results

We are incredibly proud of our students for their work preparing for the Cross Timbers District Contests! We had a fantastic day! 3 teams qualified for the area contests which will be held on November 25th at Abilene Wylie HS.

Greenhand Skills: Reserve District Champions 🏆

Jaycee Morton, Braylee Reeves, Cooper Massey, Cyndea Wilson, and Maliyah Morgan

Greenhand Ag Advocacy- Reserve District Champions 🏆

Gabriella Castaneda, Aubrey Neel, Abby Brasher, Emily Garcia, Mya Buitron

Ag Issues: District Champions 🏆

Riley Morton, Paige Franqui, Cate Smith, Tynlea Wilson, Madison Moseley, Brinleigh Denos, Carli Coffee



Below are the current Endorsement/Certification(s) available through the BISD CTE program:

**Brownwood High School Endorsements
Course Levels**

Endorsement	Sequence/Pathway	Level 1	Level 2	Level 3	Level 4	Certifications
STEM (Science, Technology, Engineering & Math)	Science Option	Biology /Biology Pre AP	Chemistry/ Chemistry Pre AP	Physics/OnRamps Physics	Two additional science courses (e)(6)	
	Math Option	Algebra 1/Alg 1 Pre AP or Geometry/Pre AP Geometry	Geometry/Pre AP Geometry or Alg II/Pre AP Alg II	Alg II/ Alg OnRamps or PreCal/ PreCal OnRamps	Two additional mathematics courses for which Algebra II is a prerequisite	
	Programming and Software Development	Computer Science 1	Computer Science 2	Computer Science 3	Indep. Study in Evolving/Emerg. Technologies or Indep. Study In Tech Appl.	FAA Remote Pilot Certification or Networking+
Business & Industry	Networking Systems	Computer Science 1	Internetworking Technologies	Internetworking Technologies II	Indep. Study in Evolving/Emerg. Technologies or Indep. Study In Tech Appl.	
	Plant Science	Principles of Agriculture, Food, and Natural Resources	Floral Design	Greenhouse Operations and Production	Advanced Plant Soil Science	TSFA Knowledge Based Certification
	Animal Science	Principles of Agriculture, Food, and Natural Resources	Small Animal Management and Equine Science	Livestock Production	Advanced Animal Science	TCFA Technician
	Digital Communications	Audio Video Production I	Audio Video Production II	Practicum of Audio/Video	Career Prep	Adobe Certified Associate Premiere Pro
	Graphic Design & Interactive Media	Commercial Photography I	Commercial Photography II	Graphic Design and Illustration I	Graphic Design and Illustration II	Adobe Certified Associate in Photoshop
	Business Management	Business Information Management I	Business Information Management II	Business Management	Career Prep	Microsoft Office Specialist-Word Expert
	Accounting and Financial Services	Business Information Management I	Accounting I	Accounting II	Career Prep	
	Culinary Arts	Introduction to Culinary Arts	Culinary Arts	Advanced Culinary Arts	Food Science or Career Prep	Food Handler; ServSafe Managers
	Welding	Introduction to Welding	Welding 1	Welding 2	Career Prep	AWS D1.1 Certification AWS D9.1 Certification
	Architectural Drafting and Design	Principles of Architecture	Architectural Design I	Architectural Design II	Career Prep	
Automotive and Collision Repair (P-TECH)	Principles of Transportation Systems	Automotive Basics	Automotive Technology I: Maintenance and Light Repair	Automotive Technology 2: Automotive Service	OSHA 30 Certification; ASE Entry-Level Certification; Engine Repair (ER); Automatic Transmission/Transaxle (AT); Brakes (BR); Electronic/Electrical Systems (EE); Heating and A/C (AC); Manual Drive Train and Axles (MD); Mechanical and Electrical Components (ME)	
Public Service	Teaching and Training	Principles of Education and Training	Human Growth and Development	Instructional Practices	Practicum in Education and Training	CPR
	Diagnostic and Therapeutic Services	Principles of Health Science	Medical Terminology	Anatomy and Physiology	Pathophysiology	
		Principles of Health Science	Medical Terminology	Health Science Theory	Practicum in Health Science-CNA or Practicum in Health Science-Pharmacy Tech	Pharmacy Technician or Certified Nurse Aide/Assistance Certification; NCHSE ; CPR
Arts & Humanities	Fine Arts	Any first year fine art including Art, Band, Choir, or Theater	Fine Art Year 2	Fine Arts Year 3	Fine Arts Year 4	
	Foreign Language	Four levels of the same language; or two levels of the same language and two levels of a different language				
	Social Studies	5 Social Studies Classes				
Multidisciplinary Studies	Four advanced courses within one endorsement area or among endorsement areas but not in a coherent sequence.					
	Four credits in each of the four foundation subjects (Must include English IV, Chemistry, Physics)					
	Four credits in advanced placement or dual credit courses. The four credits in AP and/or DC must include courses in English, Math, Science, Social Studies, Economics, LOTE or Fine Arts					

It is the policy of Brownwood I.S.D. not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and section 504 of the Rehabilitation Act of 1973, as amended. Brownwood ISD does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. Brownwood I.S.D. will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocation programs. For information about your rights or grievance procedures, contact Brownwood ISD at (325) 643-5644.

Es política de Brownwood ISD no discriminar por motivos de raza, color, origen nacional, sexo, discapacidad o edad en sus prácticas laborales según lo exige el Título VI de la Ley de Derechos Civiles de 1964, según enmendada; Título IX de las Enmiendas Educativas de 1972; la Ley de Discriminación por Edad de 1975, según enmendada; y la sección 504 de la Ley de Rehabilitación de 1973, según enmendada. Brownwood ISD no discrimina por motivos de raza, color, origen nacional, sexo, discapacidad o edad en sus programas o actividades y brinda igualdad de acceso a los Boy Scouts y otros grupos juveniles designados. Para mas información sobre sus derechos o presentación de quejas, favor de contactar a Brownwood ISD al (325) 643-5644.

Please visit our CTE and P-TECH website for more information.

