

Career and Technical Education Board Report – December 2023

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

Benefits of CTSO's include:

- Provides a hands-on approach to learning
- Refine career objectives through realistic experiences
- Promotes awareness of new career opportunities
- Develops skills and responsibilities for being a role model and mentor
- Cultivates social development and awareness
- Develops a sense of community, volunteerism, and leadership skills
- Develops an appreciation and understanding of cultural diversity
- Improves communication and decision-making skills
- Provides for personal development and opportunities for recognition

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 affords students the opportunity 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 such as TSTC, Ranger College, Kohler, and 3M. These local stakeholders' input is invaluable when making decisions regarding local funding and program implementation.

BITS (Brownwood Industry Trade Show)

BITS has been scheduled for Monday, February 26th, 2024. We plan this show for the Brownwood High School CTE Department students and instructors to showcase to local industries, community, parents, and students the many opportunities and certifications that are offered at Brownwood ISD – The District of Choice.

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

FAA Drone Pilot Certification

BHS is continuing to partner with Ranger College and the Brownwood MDD. Students will train hands-on with drones that will be theirs to keep when they pass the FAA certification. This program of study is also a dual credit course in which students can earn 3 elective hours of college credit from Ranger.

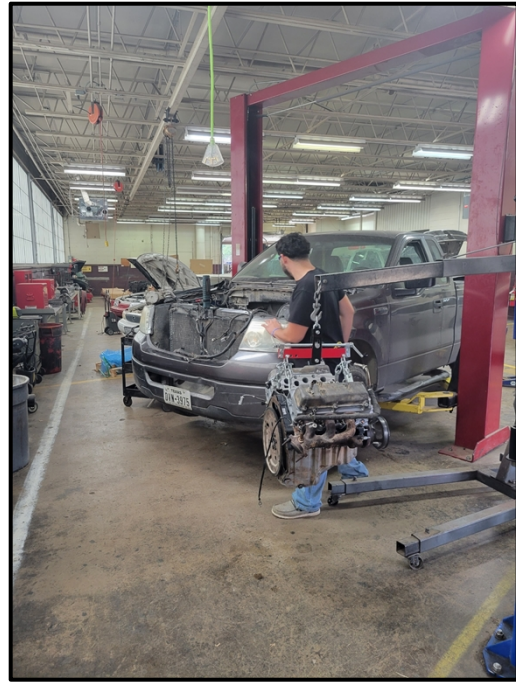
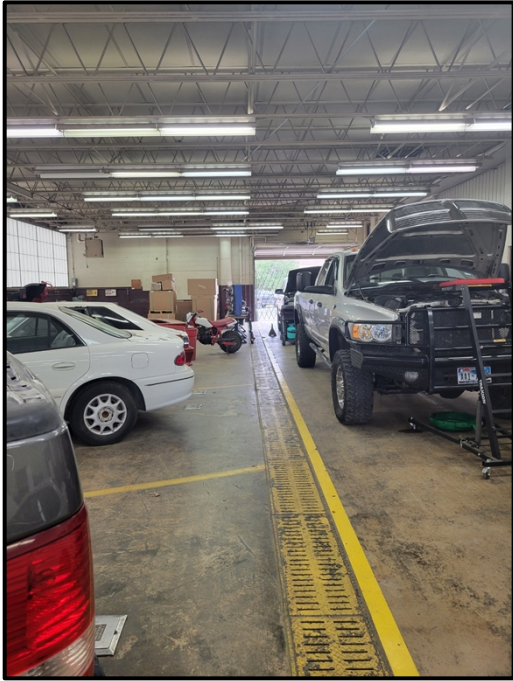


Photography/Graphic Design

In the photography/graphic design program, Yearbook, and Photo 2 students just completed yearbook portraits for the entire high school, including staff. The entire day is run by students. The students photographed 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 both Graphic Design 1 and Graphic Design 2 students. When all is finished they will have provided professional services for 900+ students and staff!

Automotive Technology

In automotive technology, students gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. The focus of this course is to teach safety, tool identification, proper tool use, and employability. The automotive program partners with Ranger College to provide students with the opportunity to earn dual credit. BHS is now designated as a P-TECH school and partners with Ranger College. 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.



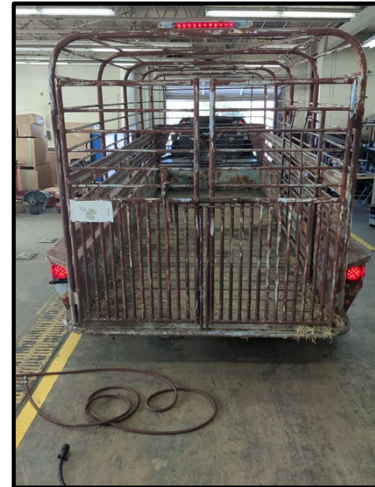
Education and Training

In the Junior and Senior courses of the Education pathway at BHS, students have the opportunity to intern in classrooms around the district in grades PK-8th grade. They observe their mentor teachers, and, under their guidance, work with students in small group settings, facilitating games and activities, reading with students, and working one-on-one with students needing extra help. Interning in this pathway gives students a chance to experience school activities from an educator's point of view, and allows them to work with students of different age levels. The hope is that students wishing to go into education post-secondary will have a better idea of what the profession entails and will be better prepared as they pursue Education as a career.



Welding

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.



Culinary Arts

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, dry and moist cooking methods, and are introduced to regional and global foods. The culinary arts classes recently prepared a Thanksgiving Feast as well as help serve the Thanksgiving meal in the elementary school cafeterias the week before Thanksgiving.



HOSA

The Health Occupation Students of America hosted a blood drive on November 16th. It was the best turn-out they have had to date. 67 individuals donated blood during this drive. HOSA recently assisted Good Samaritan Ministries by organizing a food drive at Brownwood High School, then helped to organize their food pantry before the busy holiday season. Currently, 42 students are attending clinical rotations in the community, shadowing various healthcare professionals. AHEC a regional organization from Abilene hosted a Junior Scholars program in Abilene, junior and senior students attended workshops related to respiratory health, Narcan administration, and Alzheimer's. The AHEC, (Area Health Education Center), donated scrubs to all clinical students at Brownwood High School this year.



FFA



Brownwood High School FFA students recently participated in their District competition.

Listed below are the results along with those advancing to the Area LDE competition:

- Public Relations Team** (4th place): Avi Kuhn, Blake Biasiulli, Kailey Allenbrand, Carli Coffee
- Ag Advocacy** (2nd-advancing to Area): Cooper Morgan, Allie Haynes, Hannah Deen, Sydney Stewart, Michael Stroope
- Senior Creed:** Carlee Coffee
- Senior Quiz Team** (2nd-advancing to Area): Cooper Morgan, Brinleigh Denos, Jade Ortega, Racey Pinkston, Cate Smith, Blake Biasiulli, Riley Morton
- Ag Issues Team** (1st place-advancing to Area): Riley Morton, Ella Locker, Hayden Deen, Gavin Brandstetter, Tynlea Wilson, Paige Franqui, Kaidence Giles
- Radio Broadcasting** (1st place-advancing to Area): Sydney Stewart, River Jones, Tynlea Wilson
- Greenhand Advocacy** (2nd place-advancing to Area): Shari Ray, Kenley Martin, Noah Coleman, Macalister Long, Emilee Evetts

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

Brownwood High School Endorsements 2023-2024
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	Fundamentals of Computer Science	Computer Science 2	Independent Study in Evolving/Emerging Technologies	Computer Science 3	FAA Remote Pilot Certification
Computer Science 1 Prereq: 8th Grade Algebra 1		Computer Science 2	Independent Study in Evolving/Emerging Technologies	Computer Science 3		
Business & Industry	Networking Systems	Computer Science 1 Prereq: 8th Grade Algebra 1	Internetworking Technologies	Internetworking Technologies II	Independent Study in Evolving/Emerging Technologies	Networking+
	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	OSHA 30 Certification
	Digital Communications	Principles of Art, Audio Video Tech & Communications	Audio Video Production I	Audio Video Production II	Practicum of Audio/Video	Adobe Certified Associate Premiere Pro
	Design & Multimedia Arts	Principles of Art, Audio Video Tech & Communications	Commercial Photography I	Commercial Photography II	Career Prep	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 Design	Principles of Architecture	Architectural Design I	Architectural Design II	Career Prep	OSHA 30 Construction Certification
	Automotive (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
	Healthcare Therapeutic	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
		Principles of Health Science	Medical Terminology	Health Science Theory-Health Science Clinical	Practicum in Health Science-CNA or Practicum in Health Science-Pharmacy Tech	
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					

Brownwood I.S.D. offers career and technology education programs in Agriculture Science, Technology Education, Family and Consumer Science, Health Science Technology, Marketing Education, Business Education, and Trade and Industrial Education. Admission to these programs is based on student interest, completion of recommended prerequisites courses, and available class space. 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 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) 643-6444.

Brownwood ISD ofrece programas vocacionales en ciencias agrícolas, educación tecnológica, ciencia de familia y el consumidor, tecnología de ciencias de salud, educación de mercadotecnia, educación empresarial, y educación de comercio industrial. Admisión a estos programas es basado en interés del estudiante, completión de los cursos recomendados como prerrequisito, y espacio en clase disponible. Es norma de Brownwood ISD no discriminar en la base de raza, color, origen nacional, sexo, discapacidad, o edad en sus practicas de empleo como requerido por el Titulo VI de la Ley de Derechos Civiles de 1964; el Titulo IX de las Enmiendas de educación de 1972; el Acta de Discriminación por Edad de 1975, y la Sección 504 del Acta de rehabilitación del 1973. Brownwood IS tomara pasos para asegurar que la falta de la habilidad de el uso de ingles no sea una barrera para admisión y participación en todos los programas educacionales y vocacionales. 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