

CTE

CAREER AND TECHNICAL EDUCATION

BROWNSVILLE ISD

PROGRAMS OF STUDY
2025-2026

AGRICULTURE, FOOD, AND NATURAL RESOURCES

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Animal Science	Principles of Agriculture, Food, and Natural Resources	Livestock Production	Veterinary Medical Applications	Practicum in Agriculture, Food, and Natural Resources IBC: Certified Veterinary Assistant , Level 1; Elanco Fundamentals of Animal Science Certification
Agricultural Technology and Mechanical Systems	Principles of Agriculture, Food, and Natural Resources	Agricultural Mechanics and Metal Technologies	Agricultural Structures Design & Fabrications or Agricultural Power Systems	Practicum in Agriculture, Food, and Natural Resources IBC: AWS D9.1 Sheet Metal Welding

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ARCHITECTURE AND CONSTRUCTION

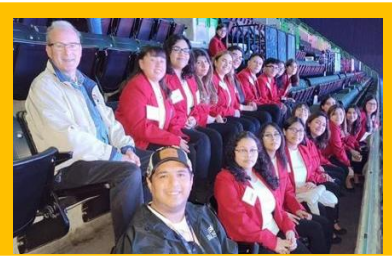
CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Architectural Drafting and Design	Principles of Architecture	Architectural Design I	Architectural Design II	Practicum in Architectural Design IBC: Autodesk Associate (Certified User) AutoCAD; Autodesk Associate (Certified User) Revit Architecture
Plumbing & Pipefitting	Principles of Construction or Introduction to Welding	Pipefitting Technology I and Pipefitting I Lab (co-requisites)	Pipefitting Technology II and Pipefitting Technology II Lab (co-requisites)	Practicum in Construction Technology IBC: NCCER Core; NCCER Pipefitting, Level I
Carpentry	Principles of Construction	Construction Technology I	Construction Technology II	Practicum in Construction Technology IBC: NCCER Core

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ARTS, AUDIO VISUAL TECHNOLOGY AND COMMUNICATIONS

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Digital Communications	Principles of Arts, A/V Technology & Communications	Audio/Video Production I	Audio/Video Production II	Practicum in Audio/Video Production IBC: Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign; Adobe Certified Professional in Visual Design Using Adobe Photoshop; Adobe Certified Professional in Digital Video Using Adobe Premiere Pro ; Adobe Certified Professional in Visual Effects and Motion Graphics Using Adobe After Effects
Graphic Design and Interactive Media	Principles of Arts, A/V Technology & Communications	Graphic Design and Illustration I	Graphic Design and Illustration II	Practicum in Graphic Design

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BUSINESS, MARKETING, AND FINANCE

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Business Management	Principles of Business, Marketing & Finance	Business Information Management I	Business Information Management II or Business Law or Virtual Business or Business Management	Practicum in Business Management IBC: Entrepreneurship and Small Business
Accounting and Financial Services	Principles of Business, Marketing & Finance	Business Information Management I	Accounting I	Accounting II OR Practicum in Business Management IBC: Volunteer Income Tax Assistance/Tax Counseling Certification: Basic

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BUSINESS PROFESSIONALS of AMERICA | Giving Purpose to Potential

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EDUCATION AND TRAINING

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Teaching and Training	Principles of Education and Training	Human Growth and Development	Instructional Practices	Practicum in Education and Training IBC: Educational Aide I

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The Hope for Tomorrow TAFE

TAFE
Texas Association of Future Educators

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HEALTH SCIENCE

CAREER AND TECHNICAL EDUCATION
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PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Diagnostics and Therapeutic Services Healthcare Diagnostics & Healthcare Therapeutic	Principles of Health Science	Medical Terminology	Health Science Theory/Health Science Clinical	Practicum in Health Science IBC: Certified Clinical Medical Assistant; Certified EKG Technician
Biomedical Science - Project Lead the Way (PLTW)	Principles of Biomedical Science (PLTW)	Human Body Systems (PLTW)	Medical Interventions (PLTW)	Biomedical Innovation (PLTW)

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HOSPITALITY AND TOURISM

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Culinary Arts	Principles of Hospitality and Tourism	Introduction to Culinary Arts	Culinary Arts	Advanced Culinary Arts or Practicum in Culinary Arts IBC: ServSafe Manager

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INFORMATION TECHNOLOGY

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Computer Science/Cybersecurity	Fundamentals of Computer Science	AP Computer Science Principles	AP Computer Science A-Math AP Computer Science A-LOTE	Cybersecurity Capstone or Practicum in Science, Technology, Engineering, and Mathematics IBC: Cybersecurity Fundamentals
Web Development	Principles of Information Technology	Digital Media	Computer Science I or Web Design	Web Game Development or Practicum In Information Technology IBC: Code HS Web Design Level I Certification
Cybersecurity – IT Solutions	Principles of Information Technology	Computer Maintenance	Networking	Practicum In Information Technology IBC: Computer Networking Fundamentals - Job Ready

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TECHNOLOGY STUDENT ASSOCIATION

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LAW AND PUBLIC SERVICE

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Law Enforcement	Principles of Law, Public Safety, Corrections, and Security	Law Enforcement I	Law Enforcement II	Practicum in Law, Public Safety, Corrections, and Security IBC: IAED Emergency Telecommunicator Non-Commissioned Security Officer Level II
Legal Studies	Principles of Law, Public Safety, Corrections, and Security	Business Law	Court Systems and Practices	Practicum in Law, Public Safety, Corrections, and Security

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TPSA

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MANUFACTURING

CAREER AND TECHNICAL EDUCATION
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PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Manufacturing Technology	Principles of Manufacturing	Precision Metal Manufacturing I	Precision Metal Manufacturing II	Practicum in Manufacturing IBC: AWS D9.1 Sheet Metal Welding
Welding	Introduction to Welding	Welding I	Welding II	Practicum in Manufacturing IBC: AWS D9.1 Sheet Metal Welding
Advanced Manufacturing - Porter PTECH Robotics and Automation Technology	Principles of Manufacturing	Programmable Logic Controller I	Programmable Logic Controller II	Practicum in Manufacturing or Manufacturing Engineering II or Robotics II IBC: C-101 Certified Industry 4.0 Associate – Basic Operations C-103 Certified Industry 4.0 Associate – Robot System Operations

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ENGINEERING

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Engineering Foundations - Project Lead The Way (PLTW Curriculum)	Engineering Design Process	Engineering Science	Digital Electronics	Engineering Design and Presentation or Practicum in Science, Technology, Engineering, and Mathematics IBC: Engineering Technology Foundations
Mechanical and Aerospace Engineering Project Lead The Way (PLTW Curriculum)	Engineering Design Process	Engineering Science	Aerospace Design	

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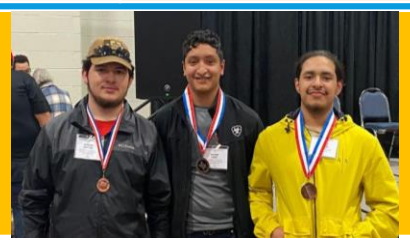
TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

PROGRAM OF STUDY	9TH	10TH	11TH	12TH
Automotive	Automotive Basics	Automotive Technology I: Maintenance and Light Repair	Automotive Technology II/Lab	Practicum in Transportation Systems IBC: ASE Entry Level Automobile Maintenance and Light Repair (MR); ASE Entry-Level Automobile Automatic Transmission/Transaxle (AT); ASE Entry-Level Automobile Brakes (BR); ASE Entry-Level Automobile Electronic/Electrical Systems (EE); ASE Entry-Level Automobile Engine Performance (EP); ASE Entry-Level Automobile Engine Repair (ER); ASE Entry-Level Automobile Heating and Air Conditioning (AC); ASE Entry-Level Automobile Manual Drive Train and Axles (MD); ASE Entry-Level Automobile Service Technology; ASE Entry-Level Automobile Suspension and Steering (SS)
Automotive - Collision Repair	Basic Collision Repair and Refinishing	Collision Repair	Paint and Refinishing	

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CTE CERTIFICATION CENTER

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

- The programs offered at the CTE Certification Center are listed below and are available to all BISD high school students.
- During "choice slip window", students are provided with detailed information and the opportunity to submit a "course request form".
- Students must meet respective program criteria to enroll in certification programs.
- Campus CPOs receive CTE Certification Center master schedule details for teacher and student scheduling at home campus.

2-Year Programs (11th - 12th grade)	1-Year Programs (12th grade)
Cosmetology	Pharmacy Technician
Barbering *	Patient Care Technician
Building Trades *	Emergency Medical Technician
Electrical Technology	Certified Personal Trainer
Pipefitting/Welding	

* Contact Campus CPO for more information

CTE CERTIFICATION CENTER
2 YEAR PROGRAMS

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

Program of Study	9th	10th	11th	12th
Cosmetology	CTE Course @ ECHS Campus	CTE Course @ ECHS Campus	Cosmetology I	Cosmetology II IBC: Cosmetology Operator License
Barbering	CTE Course @ ECHS Campus	CTE Course @ ECHS Campus	Barbering I	Barbering II IBC: Barber Operator License
Pipefitting/Welding	CTE Course @ ECHS Campus	CTE Course @ ECHS Campus	Introduction to Welding and Welding I	Welding II IBC: AWS D9.1 Sheet Metal Welding
Building Trades	CTE Course @ ECHS Campus	CTE Course @ ECHS Campus	Principles of Construction and Mill & Cabinetmaking Technology	Practicum in Construction IBC: NCCER Core
Electrical Technology	CTE Course @ ECHS Campus	CTE Course @ ECHS Campus	Electrical Technology I and Electrical Technology II	Practicum in Construction Technology IBC: NCCER Core NCCER Electrical Level 1 NCCER Elctrical Level 2

CTE CERTIFICATION CENTER
1 YEAR PROGRAMS

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BROWNSVILLE ISD

Program of Study	9th	10th	11th	12th
Diagnostic & Therapeutic Services	Principles of Health Science @ ECHS Campus	Medical Terminology @ ECHS Campus	Health Science Theory/Health Science Clinical @ ECHS Campus	Practicum in Health Science at CTE Center IBC based on enrolled program: *Emergency Medical Technician - Basic or *Phlebotomy Technician or *Patient Care Technician or *Pharmacy Technician
Exercise Science, Wellness, and Restoration	Principles of Health Science @ ECHS Campus	Medical Terminology @ ECHS Campus	Health Science Theory/Health Science Clinical @ ECHS Campus	Practicum in Health Science at CTE Center IBC: Certified Personal Trainer







CTE PROGRAMS @ HIGH SCHOOLS

CAREER AND TECHNICAL EDUCATION
BROWNSVILLE ISD

Career Cluster	Hanna	Lopez	Pace	Porter	Rivera	Veterans
Agriculture, Food & Natural Resources		*				
Architecture & Construction	*	*	*		*	*
Arts, A/V Technology & Communications		*	*	*		*
Business Marketing & Finance	*	*	*	*	*	*
Education & Training	*	*	*	*	*	
Health Science	*	*	*	*	*	*
Hospitality & Tourism	*				*	
Information Technology	*		*	*	*	*
Law and Public Service	*	*	*	*	*	*
Manufacturing	*			*		*
Science, Technology, Engineering and Mathematics (STEM)	*	*	*	*	*	*
Transportation, Distribution and Logistics	*			*		