

AN EARLY COLLEGE DISTRICT

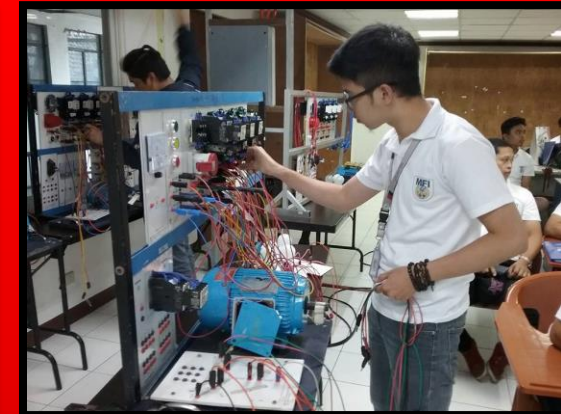
BROWNSVILLE

INDEPENDENT SCHOOL DISTRICT

Career & Technical Education

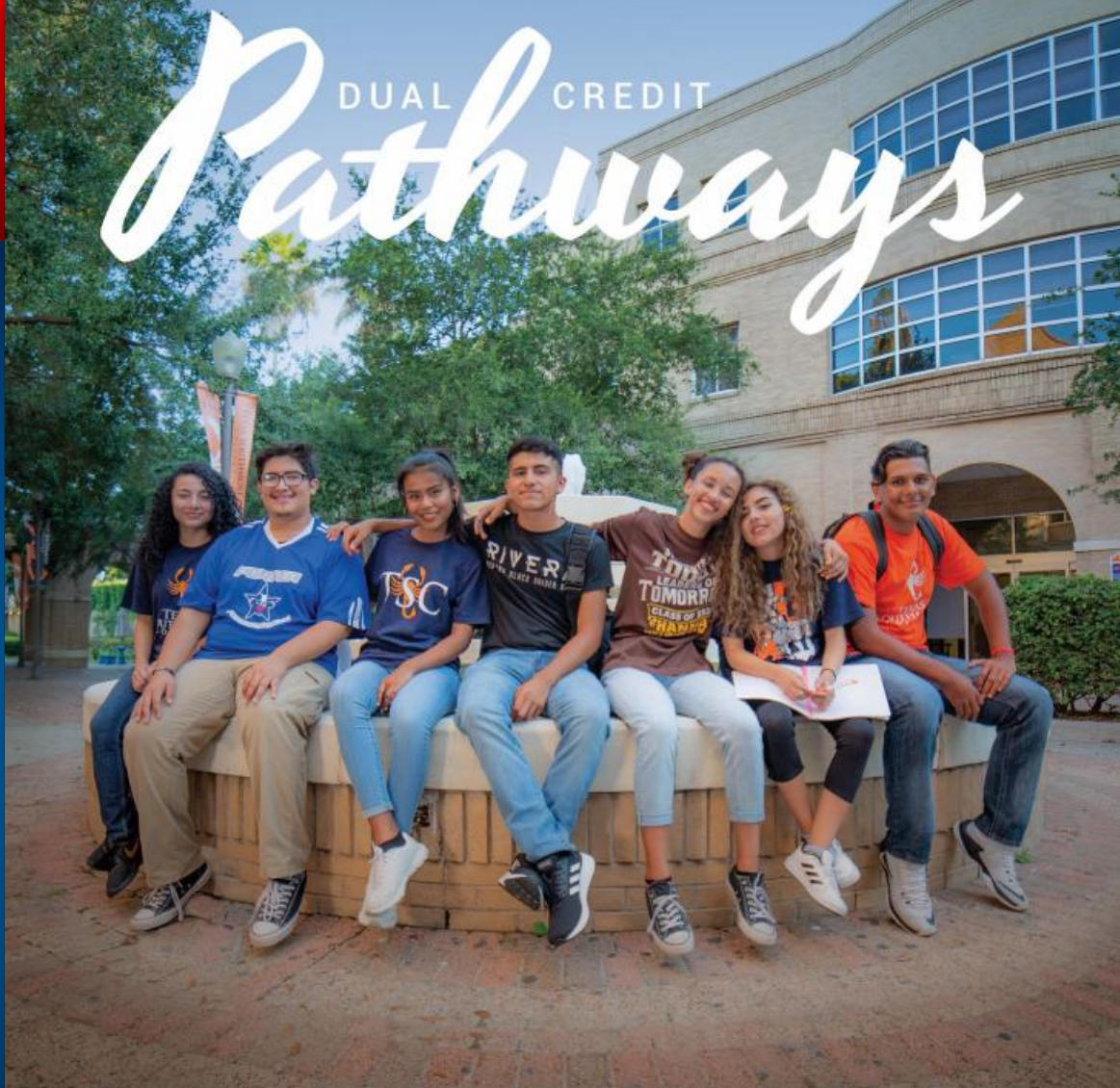
Dual Enrollment Programs in Partnership with Texas Southmost College

2019-2020





DUAL CREDIT Pathways



YOUR GUIDE TO DUAL CREDIT
COLLEGE COURSES IN HIGH SCHOOL



AN EARLY COLLEGE DISTRICT
BROWNSVILLE
INDEPENDENT SCHOOL DISTRICT



TSC Dual Enrollment Partnership



- Auto Collision/Autobody Repair
- Auto Technology
- Construction Technology
- Electrical Technology
- HVAC





ACADEMY OF LIFELONG LEARNING




INTRODUCTION TO
WELDING
PROGRAM @ TSC

OVER THE NEXT 5 YEARS, MORE THAN
500 WELDERS
WILL BE NEEDED IN
BROWNSVILLE, TX

ENTRY-LEVEL WELDERS
EARN ON AVERAGE
\$18 PER HOUR OR
\$36,720 ANNUALLY

- 160-hour, 14-week program
- Prepared for AWS credentials
- Receive OSHA 10 Certification
- Receive a TSC Certificate of Completion

<p>COURSE INFORMATION:</p> <p>Course Number: WLDG 1021 Location: Veteran's Memorial ECHS Date: Sept 9, 2019 – Dec 18, 2019 Days: Mon, Tues, Thurs Time: 5:30 P.M. – 9:30 P.M. Available Student Slots: 16</p>	<p>REGISTER TODAY:</p> <p>workforcetraining@tsc.edu (956) 295-3724</p> <p>SCHOLARSHIPS & FINANCIAL ASSISTANCE AVAILABLE TO THOSE WHO QUALIFY</p>
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AN EARLY COLLEGE DISTRICT



BROWNSVILLE

INDEPENDENT SCHOOL DISTRICT



Career & Technical Education
2019-2020
Programs of Study



**Agriculture,
Food &
Natural
Resources**

Partnerships

- **Brownsville Vet Hospital**
- **Boca Chica Animal Hospital**
- **Spay & Neuter Clinic**
- **Companion Animal Hospital**
- **Pet Smart**
- **BARCC**
- **The Weekend Vet**

AGRICULTURE MECHANICS

Principles of Agriculture, Food, & Nat Res.
 Agriculture Mechanics & Metal Technologies
 Agriculture Power Systems
 Practicum in Agriculture, Food, & Nat. Res.*

ANIMAL SYSTEMS

Principles of Agriculture, Food, & Nat Res.
 Livestock Production
 Veterinary Medical Applications or Advanced Animal Science
 Practicum in Agriculture, Food, & Nat. Res.*

PLANT SYSTEMS

Principles of Agriculture, Food, & Nat Res.
 Horticulture Science or Greenhouse Operations & Production
 Floral Design
 Practicum in Agriculture, Food, & Nat. Res.*





Architecture & Construction

Partnerships

- SpawGlass
- Brownsville PUB
- Built In Design
- Corona Engineering
- Port of Brownsville
- HCD Design
- Origo Works
- Montemayor Engineering
- Seneca Holdings
- CPM Interiors
- Lucas Design
- Youth Build
- Gomez-Mendez Architects
- M2 Solutions

ARCHITECTURE

- Principles of Architecture
- Architectural Design I
- Architectural Design II *
- Practicum in Architecture *

CONSTRUCTION

- Principles of Construction or Prin. of Business
- Construction Technology I *
- Construction Technology II *
- Practicum in Construction Technology *

HVAC (HEATING, VENTILATION, & AC)

- Principles of Construction or Prin. of Business
- Construction Technology I * or BIM I
- HVAC Refrigeration Technology II*
- Practicum in Construction Technology *



AUTODESK





Arts, A/V Technology & Communications

Partnerships

- The Brownsville Herald
- The Bargain Book
- Sunrise Mall
- KBSD
- KVEO
- Specialty Advertisers
- SBGTV
- CBS 4 News
- Cinemark
- Luke Fruia
- Tipton Ford
- Tipotex Chevy
- Charlie Clark Nissan
- Island Carousels
- KRGV

AUDIO VIDEO

Principles of Audio Video Production

Audio Video Production I

Audio Video Production II *

Practicum in Audio Video Production*

GRAPHIC DESIGN

Principles of Audio Video Production

Graphic Design and Illustration I

Graphic Design and Illustration II *

Practicum in Graphic Design*





Business Management & Administration

Partnerships

- IBC Bank
- Community Development Corporation of Brownsville
- Workforce Cameron
- Congressman Filemon Vela
- Falcon Bank
- Lone Star National Bank
- Benavidez Insurance
- City of Brownsville
- Texas Regional Bank
- Frost Bank
- Chase Bank
- Curiman Brokers
- First Community Bank
- BBVA Compass

BUSINESS INFORMATION MANAGEMENT

Principles of Business, Marketing & Finance

Business Information Management I (BIM I)

Business Information Management II (BIM II)

Accounting I or Prac in Business or Prac in Distribution

BUSINESS MANAGEMENT & ADMINISTRATION

Principles of Business, Marketing & Finance

Money Matters or BIM I

Business Management or Business Law

Practicum in Business Management* or Prac in Distribution





Education & Training

Partnerships

- TSC
- Gladys Porter Zoo
- UTRGV
- TSTC
- Children’s Museum of Brownsville
- Ortiz Elementary
- Manzano Middle School
- Aiken Elementary
- Stell Middle School
- Garden Park Elementary
- Vermillion Elementary
- KBB
- IMAS
- Cinemark

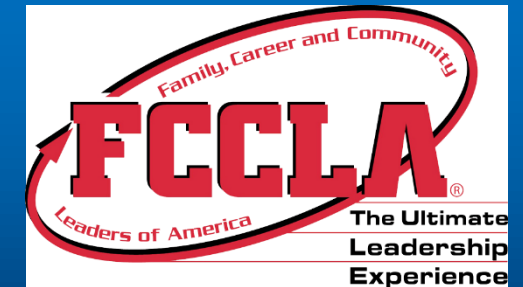
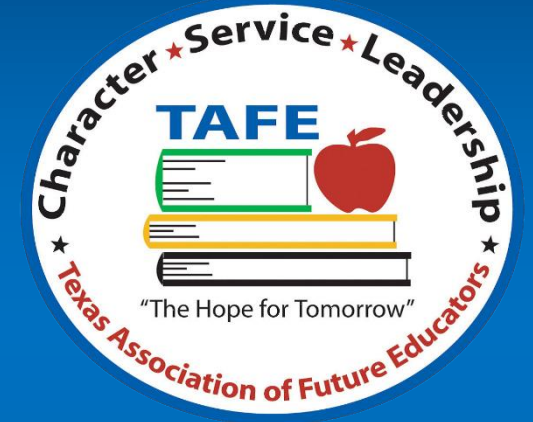
EDUCATION

Principles of Education

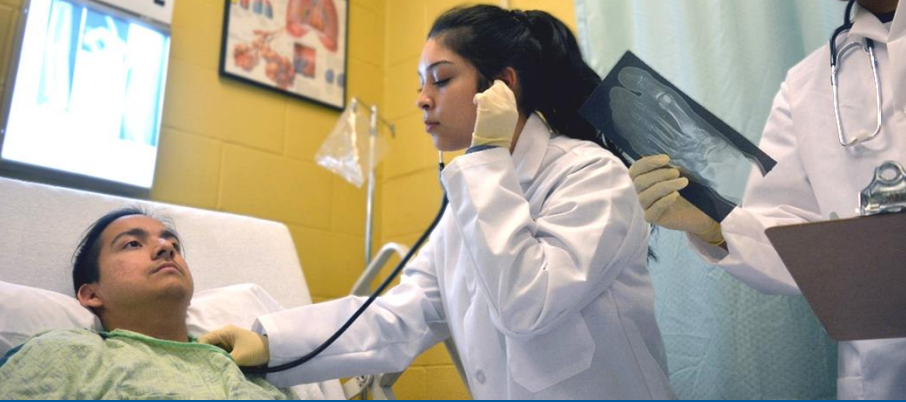
Human Growth & Development

Instructional Practices in Ed. & Training *

Practicum in Education & Training *



CPR + AED + FIRST AID



2018-2019 Enrollment: 5,104



Health Science

Partnerships

- Valley Regional Medical Hospital
- Valley Baptist Medical Center
- Walgreens
- Autrey's Pharmacy
- CVS
- Walmart
- All Valley Drug Screens
- Spanish Meadows
- The Renaissance Hospital
- Mercy Kids Rehabilitation
- Brownsville Fire Department
- South Padre Island Fire Department
- Tropical Texas Behavioral Center
- Brownsville Nursing Rehabilitation Center

HEALTH SCIENCE OR MEDICAL PROFESSIONS

- Principles of Health Science
- Medical Terminology
- Health Science Theory* / Clinical
- Practicum in Health Science I * or World Health or Pathophysiology
- Anatomy & Physiology 4th Science recommended

BIOMEDICAL SCIENCE

- PLTW Principles of Biomedical Science
- PLTW Human Body Systems
- PLTW Medical Interventions
- PLTW Biomedical Innovations
- Anatomy & Physiology 4th Science recommended



CPR + AED + FIRST AID



Hospitality
& Tourism

Partnerships

- Whataburger
- Denny's
- Luby's Cafeteria
- Rancho Viejo Catering
- Chick-Fil-A
- ACF-Made Meals 2 Go
- Gourmet Central
- Valley Baptist Harlingen (FNS)
- Antonio's Mexican Cuisine
- Pepe's
- SeaPak

CULINARY ARTS

Principles of Hospitality & Tourism

Introduction to Culinary Arts

Culinary Arts

Advanced Culinary Arts* or

Practicum in Culinary Arts*





Information Technology

Partnerships

- UTRGV-IT Department
- UTRGV-Computer Science
- Valley Regional Medical Center
- IBC Bank
- Brownsville PUB

COMPUTER MAINTENANCE

- Principles of Information Technology
- Computer Maintenance
- Networking *
- Computer Technician Practicum *

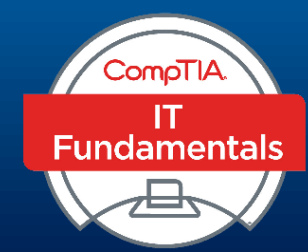
CYBERSECURITY

- PLTW Computer Programming I
- PLTW Web Technologies
- PLTW Computer Programming II
- PLTW Cybersecurity

DIGITAL & INTERACTIVE MEDIA

- Principles of Information Technology
- Digital Media
- Web Technologies

Practicum in Information Tech* or Video Game Design or Networking





Law,
Public Safety,
Corrections
& Security

Partnerships

- **BISD Police Department**
- **Brownsville Police Department**
- **Border Patrol**
- **ICE**
- **US Customs & Border Protection**
- **US Marshalls**
- **Royston Rayzor Law Firm**
- **Cameron County & District Attorney's Office**

CORRECTIONAL SERVICES

Principles of Law, Public Safety, Corrections & Sec.
 Law Enforcement I
 Correctional Services or Disaster Response
 Practicum in Law* or Disaster Response
 Forensic Science 4th Science recommended

LAW STUDIES

Principles of Law, Public Safety, Corrections & Sec.
 Law Enforcement I
 Courts System & Practices
 Practicum in Law* or Criminal Investigations
 Forensic Science 4th Science recommended

SECURITY SERVICES

Principles of Law, Public Safety, Corrections & Sec.
 Law Enforcement I
 Disaster Response
 Federal Law Enforcement & Protective Services
 Forensic Science 4th Science recommended



CPR + AED + FIRST AID





Manufacturing

Partnerships

- CK Technologies
- TRICO
- Saint-Gobain Abrasives
- Cardone
- Jamestown Plastics
- Praxair Dist. Inc.

WELDING

Introduction to Welding

Welding I

Welding II*

Practicum in Manufacturing*

MANUFACTURING

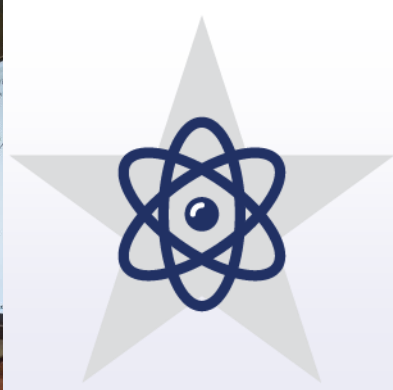
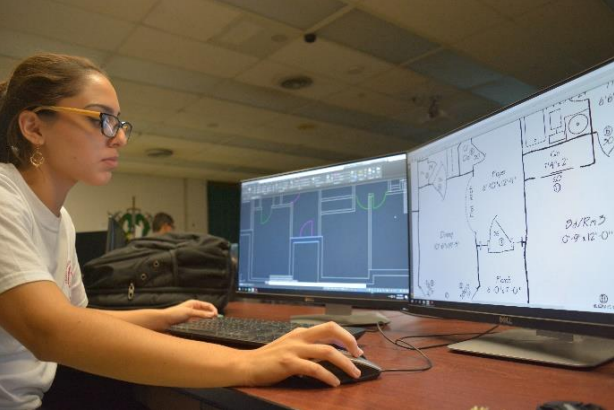
Principles of Manufacturing

Precision Metal Manufacturing I

Precision Metal Manufacturing II*

Practicum in Manufacturing*





Science,
Technology,
Engineering &
Mathematics

Partnerships

- Texas Department of Transportation
- Brownsville PUB
- City of Brownsville
- UTRGV
- CK Technologies
- Saint-Gobain Abrasives
- TRICO
- SeaPak
- SpaceX
- Orive Land Surveying
- Gonzalez Engineering
- Vasquez Engineering

PLTW ENGINEERING

PLTW Introduction to Engineering Design

PLTW Engineering Science

PLTW Civil Eng. or PLTW Digital Electronics

PLTW Engineering Design & Development or Practicum in STEM

Engineering Math ^{4th} Math recommended

PLTW AEROSPACE ENGINEERING

PLTW Introduction to Engineering Design

PLTW Engineering Science

PLTW Aerospace Eng. or PLTW Digital Elec.

PLTW Engineering Design & Development

Engineering Math ^{4th} Math recommended



TECHNOLOGY STUDENT ASSOCIATION



AUTODESK



Transportation,
Distribution
& Logistics

Partnerships

- Advance Auto Parts
- Tipton Ford
- Charlie Clark Nissan
- Luke Fruia RGV
- Tipotex Chevrolet
- Payne Motors
- Cardenas Motors
- ASE

AUTOMOTIVE COLLISION

Basics Collision Repair and Refinishing

Collision Repair I *

Painting & Refinishing *

Practicum in Transportation Systems*

AUTOMOTIVE TECHNOLOGY

Automotive Technology Basics

Auto Tech I: Maintenance & Light Repair*

Auto Technology II: Automotive Service*

Practicum in Transportation Systems *



Pathways in Technology

Early College High

P>TECH

School

Porter Early College High School



Manufacturing

MECHATRONICS

Principles of Manufacturing

Manufacturing Engineering Technology I

Manufacturing Engineering Technology II

Practicum in Manufacturing*

The AWS logo is centered within a white diamond shape that has a thick grey border. The letters 'AWS' are in a bold, dark blue, sans-serif font.

P-TECH 9-14 School Model is a pioneering education reform initiative created by IBM, to prepare young people with the academic, technical and professional skills required for 21st Century Jobs and ongoing education. P-TECH represents the best of what public-private partnerships can look like, with students taking high school and college coursework simultaneously and engaging in industry-guided workforce development.

Pathways in Technology

Early College High

P>TECH

School

Hanna Early College High School



Health Science / Biomedical Technology

P-TECH 9-14 School Model is a pioneering education reform initiative created by IBM, to prepare young people with the academic, technical and professional skills required for 21st Century Jobs and ongoing education. P-TECH represents the best of what public-private partnerships can look like, with students taking high school and college coursework simultaneously and engaging in industry-guided workforce development.

HEALTH SERVICE TECHNOLOGY

Principles of Health Science

Medical Terminology

Health Science Theory*/Clinical

Practicum in Health Science I * or World Health or Pathophysiology

Anatomy & Physiology 4th Science recommended



CTE Certification Center

**Drone Pilot
Entrepreneurship**

(Sophomores/Juniors)
Request forms on campus



Business Management & Administration
BUSINESS PROFESSIONALS OF SUCCESS

DRONE ENTREPRENEURSHIP
CTE Course
CTE Course
CTE Course
Practicum in Business*

Pipefitting & Welding

(Sophomores/Juniors)
Request forms on campus



Manufacturing
SkillsUSA Champions of Work
AWS

PIPEFITTING
Principles of Construction or Prin. of Business
Construction Tech. I* or Business Info. Mgmt. I
Practicum in Manufacturing Ext. -1st time**
Practicum in Manufacturing Ext.-2nd time**

Building Trades

(Sophomores/Juniors)
Request forms on campus




Architecture & Construction
SkillsUSA Champions of Work

BUILDING TRADES
Principles of Construction or Prin. of Business
Construction Technology I* or BIM I
Practicum in Construction Ext-1st time**
Practicum in Construction Ext-2nd time**

Robotics

(Sophomores/Juniors)
Request forms on campus



Science, Technology, Engineering & Mathematics
TSA
SkillsUSA Champions of Work

ROBOTICS
CTE COURSE
CTE COURSE
Robotics I*
Robotics II*

2 period courses*
3 period courses**

Electrical

(Sophomores/Juniors)
Request forms on campus

ELECTRICAL
Principles of Construction or Prin. of Business
Construction Technology I *or BIM I
Electrical Tech I and Electrical Tech II*
Practicum in Construction Management Ext**

Distribution & Logistics

(Sophomores/Juniors)
Request forms on campus



Transportation, Distribution & Logistics
AUTHORIZED FORKLIFT DRIVER

INTERNATIONAL BUSINESS & COMMERCE
Principles of Distribution and Logistics
Global Business
Management of Transportation Systems
Distribution & Logistics and Practicum*

2 period courses*
3 period courses**

CTE Certification Center

Medical

- 1. Students must pass a background check
- 2. Students must pass a drug test
- 3. Students will need a State ID/Driver's License
- 4. Students (Juniors) that apply must have a Social Security Number
- 5. Students must have Updated Vaccines
- 6. Student must attend orientation with parent/guardian



HEALTH SCIENCE

Principles of Health Science
 Medical Terminology
 Health Science Theory*/Clinical Practicum in Health Science I *
 Anatomy & Physiology 4th Science recommended



2 period courses*
 3 period courses**

**EMT, Pharmacy Technician,
 Patient Care Technician,
 Medical Administrative Assistant
 & Medical Billing & Coding**

Cosmetology

- 1. Students (Sophomores) must submit Cosmetology Request form
- 2. Student must have good attendance
- 3. Student must have good discipline
- 4. Student must earn 1,000 hours of practice in order to test for state exams



HUMAN SERVICES

Principles of Business, Marketing & Finance
 Business Information Management I
 Cosmetology I **
 Cosmetology II **



Fire Academy

- 1. Students must pass a background check
- 2. Students must pass a drug test
- 3. Students will need a State ID/Driver's License
- 4. Students (Sophomores) that apply must have a Social Security Number



FIREFIGHTER

Principles of Health Science
 Medical Terminology
 Firefighter I and EMT Basics**
 Firefighter II **
 Forensic Science 4th Science recommended



2 period courses*
 3 period courses**



CTE Certification Center

193 Confirmed Hires using Certifications Achieved through Career & Technical Education (Reported 2018-2019)

551 College, Career, and Military Readiness Certifications (2018-2019)

Pharmacists, Firefighters, Pharmacy Technicians, Emergency Medical Technicians, Cosmetologists (Cosmetologist Instructors), Security Officers, Emergency Dispatch, Construction Laborers, Retail Management, Culinary Staff, among other professions



Forklift



Cosmetology



Firefighter/EMT



Patient Care Technician



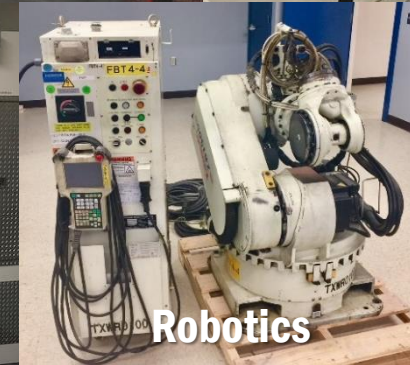
Pipefitting



Pharmacy Technician



Emergency Medical Technician



Robotics



Building Trades



STAMP

Science, Technology and Medical Professions

- College Credits
- Cohort Teaming
- Rigorous Coursework
- Experiential Opportunities
- Industry Tours
- Job Shadowing
- Internships
- College & University Tours



Apply at www.bisd.us/stampspace



Career & Technical Education

Future Expansions and Upgrades



- **Hospitality & Tourism**
- **5th Grade & Middle School**
- **Pre-Law Program of Study**
- **Training Labs for Different Certifications & Staff Development**
- **Continuous Collaboration with Community Partners**
- **Increase number of Work-Based Learning Opportunities**



Career & Technical Education

Future Expansions and Upgrades



-Continued

- **Radiology Technologist**
- **Plumbing Technology**
- **Dental Hygienist**
- **Dental Technician**
- **Wireless Systems Installer Technician**
- **Real Estate Sales Agent License**
- **Certified Personal Trainer**
- **Certified Insurance Specialist**
- **Landscape Irrigation Technician License**