Programs of Study

Career & Technical Education

The BISD Career & Technical Education (CTE) Department offers programs of study derived from **13** Career Clusters, which are recognized at the state and national levels. CTE programs prepare students to be college and career-ready by providing core academic skills, employability skills and technical, job-specific skills. CTE courses combine rigorous academics with relevant career education. When schools integrate academic and technical education, students can see the "usefulness" of what they are learning. This system also facilitates a seamless transition from secondary to postsecondary opportunities. This initiative uses the 16 federally defined Career Clusters of the States' Career Clusters initiative (www.txcte.org) as the foundation for restructuring how schools arrange their instructional programs.

The 14 career clusters are aligned with the following House Bill 5 Graduation Endorsements:

Endorsement	STEM	Business & Industry	Public Services	Multidisciplinary Studies
Career Clusters	• Engineering	• Agriculture, Food & Natural Resources • Architecture & Construction • Arts, A/V Technology & Communications • Business, Marketing & Finance • Hospitality & Tourism • Information Technology • Manufacturing • Transportation, Distribution & Logistics	• Education & Training • Health Science • Human Services • Law and Public Service	• 4 Advanced courses* that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in coherent sequence

Students may earn a Multidisciplinary Studies Endorsement in CTE by taking the 2nd- 4th CTE courses in respective programs of study as these courses qualify as Advanced CTE courses.

Endorsement/Program of Study Declaration of Intent
Students are required to declare an Endorsement and Program of Study (POS) in writing. Declaration of Intent forms are available at respective high schools. The signature of the student and the parent is required in order to participate in a CTE program. Students must make a commitment to stay in the program for a minimum of one school year. Students who wish to change their Program of Study are required to consult with their academic counselor and present the reason for the change. The approval and signature of the student, parent, and academic counselor will be required.
NOTE: Changes to a program of study may affect completion of respective graduation endorsement.

Industry-Based Certifications
BISD students have the opportunity to earn industry-based certifications (IBCs) that meet TEA College, Career, and Military Readiness (CCMR) Accountability standards. Some IBCs are offered at the home campus while others are offered at the CTE Certification Center. IBC offerings are subject to campus availability, staffing credentials, and specific program requirements. For a complete list of industry certifications and corresponding graduation cord offered by the BISD CTE Department, please refer to **www.bisd.us/cte**. Students must meet respective industry certification criteria. This includes state and national requirements set forth by certifying entities.

Project Lead the Way

BISD campuses offer Project Lead the Way (PLTW) curriculum in the following areas: engineering, biomedical science and computer science.   PLTW empowers students to develop and apply in-demand, transportable skills by exploring real-world challenges.

Experiential Learning

Experiential learning includes activities such as guest speakers, job shadowing, industry panelist presentations, industry field trips, college/university visits, practicum/internship site assignments, and paid career preparation opportunities. CTE students have the opportunity to participate in experiential learning activities as part of their program of study curriculum.

Graduation Cords

Students have the opportunity to earn a CTE graduation cord upon successful completion of a program of study. Please refer to **www.bisd.us/cte** for specific requirements.

Scheduling Guidelines

Listed below are scheduling guidelines for CTE courses offered at both home campuses and the CTE Certification Center. Campus Career Placement Officers (CPOs) are the point of contact for all CTE scheduling questions.

- **Course prerequisites and recommended prerequisites** – Listed in this BISD Course Listing Guide (CLG) are recommended prerequisites and TEA required prerequisites, which are identified by an asterisk (*). A program of study follows a coherent sequence of courses in order to meet all objectives, knowledge, and skills in respective coursework.

- **Program of Study** – Please refer to campus CPO for CTE endorsements and program of study availability, course sequence, substitutions, and course numbers.

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

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

- **Career Preparation Courses**- A Career Preparation class section (period) requires one coordination period with a maximum of two coordination periods per teacher. Each class section must have a minimum of 15 students and maximum of 25 students.

  Teachers assigned to the Career Prep course are required to do the following
  - o Develop training plans for each student enrolled in career prep course;
  - o Conduct site visits a minimum of once per six weeks per student; and
  - o Maintain communication with current and future employers.
- **Course Numbers** – Listed below are guidelines for CTE course numbers.
  - o *U- numbers* – course numbers for students who enter high school in the 2019-2020 school year and THEREAFTER
  - o *PLW* – course numbers for all cohorts scheduled into Project Lead the Way courses
  - o *SPL* – course numbers for all STAMP & SPACE students scheduled into Project Lead the Way courses

- **§74.1003. Industry-Based Certifications for Public School Accountability**
  Beginning in the 2022-2023 school year, certifications recognized for the purpose of public school accountability shall meet the following criteria.
  - (1) Certification. A certification is defined as a validation or license that indicates an individual possesses certain industry-specific skills and that meets two or more of the following criteria:
    - (A.) the certification is related to the performance requirements of a career or occupation, measured against a set of industry-accepted standards, and not dependent upon a particular curriculum or program;
    - (B.) the certification is earned by successfully completing an assessment that demonstrates an individual's proficiency of the prescribed standards; or
    - (C.) the certification is a time-limited credential that must be maintained through ongoing professional training and/or testing requirements.
  - (2) Industry recognized and valued.
    - (A.) A certification is industry recognized and valued if the certification is:
      - (i.) referred to the Texas Education Agency (TEA):
        - (I.) by the Texas Workforce Commission (TWC) as part of the inventory of industry-recognized credentials approved by the industry-based certification advisory council authorized by Texas Labor Code, §312.002; or
        - (II.) directly using a process identified and implemented by TEA and published on the TEA website if the certification is not referred to TEA by TWC under subclause (I) of this clause; and
      - (ii.) determined to be valued by a representative sample of employers, as demonstrated in at least one of the following ways:
        - (I.) inclusion of the certification in job postings as required or highly recommended;
        - (II.) use of the certification as a factor in selecting candidates for an interview or for hire; or
        - (III.) offer of higher pay for individuals who possess the certification.

    - (B.) If a determination of value under subparagraph (A)(ii) of this paragraph is not made prior to referral under subparagraph (A)(i)(I) of this paragraph, TEA may use a third-party organization with expertise in gathering information from employers related to the value of industry-based certifications to directly contact groups of employers and report to TEA regarding whether the standards under subparagraph (A)(ii) of this paragraph have been met.
  - (3) Attainable by a high school student. All eligibility requirements such as age and experience can be met and the certification awarded before or within the summer after a student's high school graduation.

(4) Portable. The certification can:
- (A.) be transferred seamlessly to postsecondary work through acceptance for credit or hours in core program courses at an institution of higher education;
- (B.) be counted toward hours in an aligned apprenticeship program;
- (C.) be part of a prescribed coherent sequence of industry-recognized credentials to show progressive skills development; or
- (D.) support employment in more than one region of the state.

(5) Certifying entity. The assessment of the knowledge and skills required to obtain the certification is provided by or determined by an independent, third-party certifying entity using predetermined standards for knowledge, skills, and competencies.

(6) Capstone or end-of-program. A certification assessment is taken at the culmination of a single high school course or multiple related courses within a secondary program of study. There must be at least 50% overlap between the certification assessment standards and:
- (A.) the essential knowledge and skills for a secondary course aligned to the career cluster associated with the certification assessment; or
- (B.) the applicable essential knowledge and skills for a set of courses within a program of study in a secondary career and technical education program

CTE Endorsements, Programs of Study, and aligned IBCs are listed in the next sections. For accountability purposes, please refer to information shown in table at the end of this page. In order for an IBC to count towards accountability, it must be aligned with respective program of study.

Students may enroll in more than 1 program of study. If schedule permits and there is availability, students are also encouraged to enroll in an elective CTE class (ex: first course in program of study sequence or stand-alone CTE course).

Concentrator	A student served by an LEA who has completed **2 or more courses for at least 2 credits** in a single program of study.
Completer	A student served by an LEA who has completed **3 or more courses for 4 or more credits** including an advanced course (level 3 or level 4) within an approved program of study.

Note: Information is subject to change before the 2024-2025 school year pending TEA CTE Program of Study Refresh updates https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/program-of-study-refresh-public-comment, and IHE Program of Study Alignment charts.

Career Cluster	Engineering		IBC PEIMS ID#	CTE Industry-Based Certification(s)
Program of Study	Engineering Foundations (PLTW)		939 941 942 989	Autodesk Associate (Certified User) AutoCAD Autodesk Associate (Certified User) Inventor for Mechanical Design Autodesk Associate (Certified User) Revit Architecture Engineering Technology Foundations
Supplemental Requirement Group	ST-EN			

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
PLW101(2)	Introduction to Engineering Design (PLTW)	N1303742	9-12	0.5	None
PLW111(2)	Engineering Science (PLTW)	13037500	10-12	0.5	Introduction to Engineering Design (PLTW) & Algebra I, and 1 of the following science courses: Biology, Chemistry, Integrated Physics (IPC) or Physics*
PLW121(2)	Digital Electronics (PLTW) or	13037500	11-12	0.5	Engineering Science (PLTW)
PLW141(2)	Civil Engineering & Architecture (PLTW)	N1303747	11-12	0.5	Engineering Science (PLTW)
PLW131(2)	Engineering Design and Development (PLTW) or	N1303749	11-12	0.5	Engineering Science (PLTW) and 2 additional PLTW Engineering Courses
U00161(2)	Practicum in Science, Technology, Engineering, and Mathematics	13037400	12	1	2 POS courses & Algebra & Geometry*

Career Cluster	Engineering		IBC PEIMS ID#	CTE Industry-Based Certification
Program of Study	Mechanical and Aerospace Engineering (PLTW)		939 941 942 989	Autodesk Associate (Certified User) AutoCAD Autodesk Associate (Certified User) Inventor for Mechanical Design Autodesk Associate (Certified User) Revit Architecture Engineering Technology Foundations
Supplemental Requirement Group	ST-AE			

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
PLW101(2)	Introduction to Engineering Design (PLTW)	N1303742	9-12	0.5	None
PLW111(2)	Engineering Science (PLTW)	13037500	10-12	0.5	Introduction to Engineering Design (PLTW) & Algebra I, and 1 of the following science courses: Biology, Chemistry, Integrated Physics (IPC) or Physics*
PLW161(2)	Aerospace Engineering (PLTW)	N1303745	11-12	0.5	Engineering Science (PLTW)
PLW131(2)	Engineering Design and Development (PLTW) or	N1303749	11-12	0.5	Engineering Science (PLTW) and 2 additional PLTW Engineering Courses

| U00161(2) | Practicum in Science, Technology, Engineering, and Mathematics | 13037400 | 12 | 1 | 2 POS courses & Algebra & Geometry* |

Career Cluster	Agriculture, Food & Natural Resources		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Animal Science		420	Certified Veterinary Assistant, Level 1	
Supplemental Requirement Group	BI-AS		986	Elanco Fundamentals of Animal Science Certification	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
AG0401(2) AG0U01(2)	Principles of Agriculture, Food, and Natural Resources	13000200	9-12	0.5	None
AG1721(2) UG1721(2)	Livestock Production	13000300	10-12	0.5	Principles of Agriculture, Food, and Natural Resources
0T0421(2) UG0421(2)	Veterinary Medical Applications	13000600	11-12	0.5	Livestock Production*
AG0501(2) UG0501(2)	Practicum in Agriculture, Food, and Natural Resources	13002500	11-12	1	Minimum of 2 POS courses
AG0431(2) UG0431(2)	Advanced Animal Science	13000700	11-12	0.5	Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production*
UG0451(2)	Practicum in Agriculture, Food, and Natural Resources	13002515	12	1.5	Vet Med program students

Career Cluster	Agriculture, Food & Natural Resources		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Agricultural Technology and Mechanical systems		340	AWS D1.1 Structural Steel	
Supplemental Requirement Group	BI-AM		350	AWS D9.1 Sheet Metal Welding	
Course Number	**Course Name**	**PEIMS Number**	**Grade Level**	**Per Unit Credit**	**BISD Recommended Prerequisites TEA-Required Prerequisites***
AG0401(2) AG0U01(2)	Principles of Agriculture, Food, and Natural Resources	13000200	9-12	0.5	None
0T0471(2) UG0471(2)	Agricultural Mechanics and Metal Technologies	13002200	10-12	0.5	Principles of Agriculture, Food, and Natural Resources
New Number	Agricultural Structures Design & Fabrications	13002300	11-12	0.5	Agricultural Mechanics and Metal Technologies
0T0491(2) UG0491(2)	Agricultural Power Systems	13002400	11-12	1	Agricultural Mechanics and Metal Technologies
AG0501(2) UG0501(2)	Practicum in Agriculture, Food, and Natural Resources	13002500	12	1	Minimum of 2 POS courses
Career Cluster	Architecture & Construction		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Architectural Drafting and Design		939	Autodesk Associate (Certified User) AutoCAD	
Supplemental Requirement Group	BI-AD		942	Autodesk Associate (Certified User) Revit Architecture	
Course Number	**Course Name**	**PEIMS Number**	**Grade Level**	**Per Unit Credit**	**BISD Recommended Prerequisites TEA-Required Prerequisites***
300521(2) U00521(2)	Principles of Architecture	13004210	9-12	0.5	None
300551(2) U95321(2)	Architectural Design I	13004600	10-12	0.5	Principles of Architecture Algebra I and English I*

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites / TEA-Required Prerequisites*
300561(2) U95331(2)	Architectural Design II	13004700	11-12	1	Architectural Design I and Geometry*
300571(2) 30U571(2)	Practicum in Architectural Design	13004800	12	1	Architectural Design II*
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Architecture & Construction		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Plumbing & Pipefitting		630 720	NCCER Core NCCER Pipefitting, Level I	
Supplemental Requirement Group					

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites / TEA-Required Prerequisites*
300531(2) U00531(2)	Principles of Construction or	13004220	9-12	0.5	None
301481(2) U01481(2)	Introduction to Welding	13032250	9-12	0.5	None
U01701(2) U01731(2)	Pipefitting Technology I and Pipefitting I Lab (co-requisites)	N1300425 N1300427	10-12	0.5 0.5	Principles of Construction or Introduction to Welding and Algebra I*
U01741(2) U01751(2)	Pipefitting Technology II and Pipefitting Technology II Lab (co-requisites)	N1300426 N1300428	11-12	0.5 0.5	Pipefitting Technology I
300061(2) U00061(2)	Practicum in Construction Technology	13005250	12	1	Pipefitting Technology II

Career Cluster	Architecture & Construction		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Carpentry				
Supplemental Requirement Group	BI-CT		630	NCCER Core	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites / TEA-Required Prerequisites*

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites
300531(2) U00531(2)	Principles of Construction	13004220	9-12	0.5	None
0T0621(2) U00621(2)	Construction Technology I	13005100	10-12	1	Principles of Construction
300591(2 U00591(2)	Construction Technology II	13005200	11-12	1	Construction Technology I*
300061(2) U00061(2)	Practicum in Construction Technology	13005250	12	1	Construction Technology II*
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Arts, A/V Technology & Communications		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Digital Communications		16	Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign	
Supplemental Requirement Group	BI-AV		17	Adobe Certified Professional in Visual Design Using Adobe Photoshop	
			18	Adobe Certified Professional in Digital Video Using Adobe Premiere Pro	
			10	Adobe Certified Professional in Visual Effects and Motion Graphics Using Adobe After Effects	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
300691(2) U00691(2)	Principles of Arts, A/V Technology & Communications	13008200	9-12	0.5	None
U00741(2) 300741(2)	Audio/Video Production I	13008500	10-12	0.5	Principles of Arts, A/V Technology & Communications
U00771(2) 300771(2)	Audio/Video Production II	13008610	10-12	1	Audio/Video Production I*
U00781(2) 300781(2)	Practicum in Audio/Video Production	13008700	11-12	1	Audio/Video Production II*
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Arts, A/V Technology & Communications		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Graphic Design and Interactive Media		15	Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator	
Supplemental Requirement Group	BI-GD		17	Adobe Certified Professional in Visual Design Using Adobe Photoshop	
			18	Adobe Certified Professional in Digital Video Using Adobe Premiere Pro	
Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
300691(2) U00691(2)	Principles of Arts, A/V Technology & Communications	13008200	9-12	0.5	None
300791(2) U00791(2)	Graphic Design and Illustration I	13008810	10-12	1/2	Principles of Arts, A/V Technology & Communications
302791(2) U02791(2)	Graphic Design and Illustration II	13008910	11-12	1	Graphic Design and Illustration I*
300811(2) U00811(2)	Practicum in Graphic Design or	13009000	12	1	Graphic Design and Illustration II*
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses
Career Cluster	Business, Marketing and Finance		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Business Management		512 560 570	Entrepreneurship and Small Business Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019) Microsoft Office Specialist: Microsoft Word Expert (Word and Word 2019)	
Supplemental Requirement Group	BI-BM				
Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
0T0821(2) U00821(2)	Principles of Business, Marketing & Fin.	13011200	9-12	0.5	None
0T0831(2) U00831(2)	Business Information Management I or	13011400	9-12	0.5	None

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
0T0761(2) U00761(2)	Business Law	13011700	11-12	0.5	Principles of Business, Marketing & Fin.
300883 U00883	Virtual Business	13012000	11-12	0.5	None
0T0751(2) U00751(2)	Business Information Management II or	13011500	11-12	0.5	Business Information Management I*
0T0891(2) U00891(2)	Business Management or	13012100	11-12	0.5	Minimum of 2 POS Courses
300871(2) U00871(2)	Practicum in Business Management	13012200	12	1	Minimum of 2 POS Courses
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Business, Marketing and Finance		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Accounting & Financial Services		1047	Volunteer Income Tax Assistance/Tax Counseling Certification: Basic	
Supplemental Requirement Group	BI-BN		810	Intuit Quickbooks Certified User	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
0T0821(2) U00821(2)	Principles of Business, Marketing & Fin.	13011200	9-12	0.5	None
300011(2) U00011(2)	Money Matters or	13016200	10-12	0.5	None
0T0831(2) U00831(2)	Business Information Management I	13011400	9-12	0.5	None
0T0951(2) U00951(2)	Accounting I	13016600	11-12	0.5	Minimum of 2 POS Courses
0T0961(2) U00961(2)	Accounting II or	13016700	12	0.5	Accounting I*
300871(2) U00871(2)	Practicum in Business Management or	13012200	12	1	Minimum of 2 POS Courses

301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster Hospitality & Tourism			**IBC PEIMS ID#**	**CTE Industry-Based Certification**	
Program of Study	Culinary Arts		811	ServSafe Manager	
Supplemental Requirement Group	BI-HT				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
301161(2) U01161(2)	Principles of Hospitality and Tourism	13022200	9-12	0.5	None
301211(2) U01211(2)	Introduction to Culinary Arts	13022550	9-12	0.5	Principles of Hospitality and Tourism
0T1191(2) U01191(2)	Culinary Arts	N1302268	11-12	1	Introduction to Culinary Arts
301221(2) U01221(2)	Advanced Culinary Arts or	13022650	12	1	Culinary Arts*
301201(2) U01201(2)	Practicum in Culinary Arts	13022700	12	1	Culinary Arts*
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Information Technology		**IBC PEIMS ID#**	**CTE Industry-Based Certification**	
Program of Study	Computer Science/Cybersecurity		979	Cybersecurity Fundamentals	
Supplemental Requirement Group	ST-CS				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
PLW261(2)	Fundamentals of Computer Science	3580140	9-12	0.5	None

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites / TEA-Required Prerequisites*
PLW271(2)	AP Computer Science Principles	A3580300	10-12	0.5	Fundamentals of Computer Science
PLW301(2)	AP Computer Science A - MATH AP Computer Science A - LOTE	A3580110** A3580120**	11-12	0.5 0.5	AP Computer Science Principles
PLW291(2)	Cybersecurity Capstone	3580855	12	1	AP Computer Science A
U00161(2)	Practicum in Science, Technology, Engineering, and Mathematics	13037400	12	1	2 POS courses & Algebra & Geometry*

**These two SERVICE-IDs are for a single course and must be reported together with the same pass/fail result.

Career Cluster	Information Technology				PACE PTECH
Program of Study	Cybersecurity		IBC PEIMS ID#		CTE Industry-Based Certification
Supplemental Requirement Group			979		Cybersecurity Fundamentals

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites / TEA-Required Prerequisites*
UTE262(2)	Principles of Information Technology	13027200	9-12	0.5	None
UTE271(2)	Computer Maintenance	13027300	10-12	0.5	Principles of Information Technology*
UTE211(2)	Networking Lab	13027410	11-12	1	Computer Maintenance
UTE281(2)	Practicum in Information Technology	13028000	12	1	2 POS Courses
	Practicum in Information Technology (Extended)	13028005	12	1.5	2 POS Courses

Career Cluster	Information Technology		IBC PEIMS ID#		CTE Industry-Based Certification
Program of Study	Web Development		1068		CodeHS Web Design Level I Certification
Supplemental Requirement Group	BI-DI				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites / TEA-Required Prerequisites*

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
0T1261(2) U01261(2)	Principles of Information Technology	13027200	9-12	0.5	None
U01281(2)	Foundations of User Experience (UX)	N1302809	10-12	0.5	Principles of Information Technology
39U061(2)	Computer Science I *or*	03580200	10-12	0.5	Principles of Information Technology
495501(2) U95501(2)	Web Design	03580820	11-12	0.5	Minimum of 2 POS Courses
U95511(2)	Web Game Development *or*	03580830	11-12	0.5	Minimum of 2 POS Courses
U95521(2)	Advanced User Experience Design *or*	N1302814	11-12	0.5	Minimum of 2 POS Courses
302261(2) U02261(2)	Practicum In Information Technology or	13028000	12	1	Minimum of 2 POS Courses
302271(2) U02271(2)	Practicum in Information Technology	13028005	12	1.5	Minimum of 2 POS Courses
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Information Technology		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Cybersecurity – IT Solutions		~~481~~	~~CompTIA IT Fundamentals+~~	
Supplemental Requirement Group	BI-CM		977	Computer Repair Technology – Job Ready	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
0T1261(2) U01261(2)	Principles of Information Technology	13027200	9-12	0.5	None
0T1271(2) U01271(2)	Computer Maintenance	13027300	10-12	0.5	Principles of Information Technology*
U02211(2)	Networking	13027410	11-12	1	Computer Maintenance
302261(2) U02261(2)	Practicum In Information Technology or	13028000	12	1	Minimum of 2 POS Courses

301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Manufacturing		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Manufacturing Technology				
Supplemental Requirement Group	BI-MN				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
0T1401(2) U01401(2)	Principles of Manufacturing	13032200	9-12	0.5	None
0T1431(2) U01431(2)	Precision Metal Manufacturing I	13032500	10-12	1	Principles of Manufacturing
0T1441(2) U01441(2)	Precision Metal Manufacturing II	13032600	11-12	1	Precision Metal Manufacturing I*
301451(2) U01451(2)	Practicum in Manufacturing or	13033000	12	1	Precision Metal Manufacturing II
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Manufacturing		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Welding		340	AWS D1.1 Structural Steel	
Supplemental Requirement Group	BI-WD		350	AWS D9.1 Sheet Metal Welding	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
301481(2) U01481(2)	Introduction to Welding	13032250	9-12	0.5	None
301411(2) U01411(2)	Welding I	13032300	10-12	1	Introduction to Welding

302051(2) U01421(2)	Welding II	13032400	11-12	1	Welding I*
301451(2) U01451(2)	Practicum in Manufacturing or	13033000	12	1	Welding II
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Manufacturing		VETERANS PTECH		
Program of Study	Welding		IBC PEIMS ID#	CTE Industry-Based Certification	
Supplemental Requirement Group	BI-WD		340 350	AWS D1.1 Structural Steel AWS D9.1 Sheet Metal Welding	
Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
PTU481(2)	Introduction to Welding	13032250	9-12	0.5	None
PTU411(2)	Welding I	13032300	10-12	1	Introduction to Welding
PTU511(2)	Welding II	13032400	11-12	1	Welding I*
PTU521(2)	Practicum in Manufacturing or	13033000	12	1	Welding II
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Manufacturing			PORTER PTECH	
Program of Study	Advanced Manufacturing		IBC PEIMS ID#	CTE Industry-Based Certification	
Supplemental Requirement Group	BI-ME				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
PTE401(2) U01401(2)	Principles of Manufacturing	13032200	9-12	0.5	None
DE5431(2)	Programmable Logic Controller I	N1303689	10-12	0.5	Principles of Manufacturing
DE5461(2)	Programmable Logic Controller II	N1303690	11-12	0.5	Programmable Logic Controller I
PTU521(2)	Practicum in Manufacturing or	13033000	12	1	Programmable Logic Controller II
DE1411(2)	Manufacturing Engineering II	13032900	12	0.5	Programmable Logic Controller II
DE5421(2)	Robotics II	13037050	12	0.5	Programmable Logic Controller II
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Transportation, Distribution & Logistics		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Automotive		191 121 141 151 161 171 182 201 131 261	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)	
Supplemental Requirement Group	BI-AT				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
301541(2) U01541(2)	Automotive Basics	13039550	9-12	0.5	None
301581(2) U01581(2)	Automotive Technology I: Maintenance and Light Repair	13039600	10-12	1	Automotive Basics
0T1591(2) U01591(2)	Automotive Technology II/Lab	13039700	11-12	1	Automotive Technology I: Maintenance and Light Repair
301681(2) U01681(2)	Practicum in Transportation Systems	13040450	12	1	Automotive Technology II/Lab
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Transportation, Distribution & Logistics		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Collision Repair		211 221 231	ASE Entry-Level Collision Mechanical and Electrical Components (ME) ASE Entry-Level Collision Non-Structural Analysis and Damage Repair (SR) ASE Entry-Level Collision Painting and Refinishing (PR)	
Supplemental Requirement Group	BI-CR				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
301691(2) U01691(2)	Basic Collision Repair and Refinishing	13039750	9-12	0.5	None
301601(2) U01601(2)	Collision Repair	13039800	10-12	1	Basic Collision Repair and Refinishing
301611(2) U01611(2)	Paint and Refinishing	13039900	11-12	1	Collision Repair
301681(2) U01681(2)	Practicum in Transportation Systems	13040450	12	1	Paint and Refinishing
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster	Education & Training		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Teaching & Training		511	Educational Aide I	
Supplemental Requirement Group	PS-ET				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
300901(2) U00901(2)	Principles of Education and Training	13014200	9-12	0.5	None
300911(2) U00911(2)	Human Growth and Development	13014300	10-12	0.5	Principles of Education and Training
300921(2) U00921(2)	Instructional Practices	13014400	11-12	1	Human Growth and Development 1 credit from Education and Training Career Cluster*
300931(2) U00931(2)	Practicum in Education and Training	13014500	12	1	Instructional Practices*
U00971(2)	Practicum in Education and Training (2nd time taken)	13014510	12	1	Practicum in Education and Training
301791(2) U01791(2)	Career Preparation I	12701305	12	1.5	Minimum of 2 POS Courses

Career Cluster Health Science			IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Diagnostics and Therapeutic Services		470	Certified Clinical Medical Assistant	
Supplemental Requirement Group	PS-HL		380	Certified EKG Technician	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
0T1101(2) U01101(2)	Principles of Health Science	13020200	9-12	0.5	None
0T7341(2) U47341(2)	Medical Terminology	13020300	10-12	0.5	Principles of Health Science
0T7351(2) U47351(2)	Health Science Theory/Health Science Clinical	13020410	11-12	1	Medical Terminology and Biology*
301131(2) U01131(2)	Practicum in Health Science	13020500	12	1	Health Science Theory and Biology*
0T1151(2)	Anatomy and Physiology**	13020600	11-12	0.5	Biology and a second science credit*

Recommended as 4th science and/or 3rd course in program of study course sequence if student is coming in to high school with credit(s) in respective program of study.					
Career Cluster Health Science			**IBC PEIMS ID#**	**CTE Industry-Based Certification**	
Program of Study	Biomedical Science (Project Lead the Way-PLTW)		952	Biotechnician Assistant Credentialing Exam (BACE)	
Supplemental Requirement Group PS-BM					
Course Number	**Course Name**	**PEIMS Number**	**Grade Level**	**Per Unit Credit**	**BISD Recommended Prerequisites TEA-Required Prerequisites***
PLW171(2)	Principles of Biomedical Science (PLTW)	N1302092	9	0.5	None
PLW191(2)	Human Body Systems (PLTW)	N1302093	10	0.5	Principles of Biomedical Science (PLTW)
PLW201(2)	Medical Interventions (PLTW)	N1302094	11	0.5	Human Body Systems (PLTW)
PLW211(2)	Biomedical Innovation (PLTW)	N1302095	12	0.5	Medical Interventions (PLTW)
Career Cluster Health Science			**HANNA PTECH**		
Program of Study	Diagnostic and Therapeutic Services		**IBC PEIMS ID#**	**CTE Industry-Based Certification**	
Supplemental Requirement Group PS-HL			470	Certified Clinical Medical Assistant	
Course Number	**Course Name**	**PEIMS Number**	**Grade Level**	**Per Unit Credit**	**BISD Recommended Prerequisites TEA-Required Prerequisites***
0T1101(2) UTE101(2)	Principles of Health Science	13020200	9-12	0.5	None
0T7341(2) UTE341(2)	Medical Terminology	13020300	10-12	0.5	Principles of Health Science
0T7351(2) UTE351(2)	Health Science Theory/Health Science Clinical	13020410	11-12	1	Medical Terminology and Biology*

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites / TEA-Required Prerequisites*
301131(2) UTE131(2)	Practicum in Health Science	13020500	12	1	Health Science Theory and Biology*
0T1151(2)	Anatomy and Physiology**	13020600	11-12	0.5	Biology and a second science credit*

**Recommended as 4th science and/or 3rd course in program of study course sequence if student is coming in to high school with credit(s) in respective program of study.*

Career Cluster	Law and Public Service		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Law Enforcement		833 761	IAED Emergency Telecommunicator Non-Commissioned Security Officer Level II	
Supplemental Requirement Group	PS-CS				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
301321(2) U01321(2)	Principles of Law, Public Safety, Corrections, and Security	13029200	9-12	0.5	None
0T1331(2) UT1331(2)	Law Enforcement I	13029300	10-12	0.5	Principles of Law, Public Safety, Corrections, and Security
0T1341(2) UT1341(2)	Law Enforcement II	13029400	11-12	0.5	Law Enforcement I
301391(2) LW1391(2) U01391(2)	Practicum in Law, Public Safety, Corrections, and Security	13030100	12	1.0	Minimum of 2 POS Courses
301351(2)	Forensic Science (Recommended as a 4th Science)	13029500	11-12	0.5	Biology and Chemistry*
302061(2) U02061(2)	Federal Law Enforcement and Protective Services	13029800	12	0.5	Minimum of 2 POS Courses

Career Cluster	Law and Public Service		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Legal Studies				
Supplemental Requirement Group	PS-LS				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*

CTE CENTER CERTIFICATION PROGRAMS

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.

Listed below are **2-Year CTE Certification Programs** - Students should submit a request form during 10th grade (choice slip window). Student must be enrolled during 11th & 12th grade to complete program requirements for the following programs: Barbering, Cosmetology, Building Trades, Electrical Technology, Welding and Automation Engineering.

Career Cluster	Human Services		IBC PEIMS ID#	CTE Industry-Based Certification		
Program of Study	Cosmetology					
Supplemental Requirement Group	PS-HM		510	Cosmetology Operator License		

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
	CTE Course @ ECHS Campus		9		
	CTE Course @ ECHS Campus		10		
U00211(2)	Introduction to Cosmetology **and**	13025100	11	0.5	Enrolment in Certification Program
U10221(2)	Cosmetology I	13025200	11	1	Enrolment in Certification Program
300241(2) U00241(2)	Cosmetology II	13025310	12	1.5	Enrolment in Certification Program

Career Cluster	Human Services		IBC PEIMS ID#	CTE Industry-Based Certification		
Program of Study	Barbering					
Supplemental Requirement Group	PS-BB		361	Barber Operator License		

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
	CTE Course @ ECHS Campus		9	0.5	
	CTE Course @ ECHS Campus		10	0.5	
400031(2) U00031(2)	Barbering I	N1302534	11	1.5	Enrolment in Certification Program
U00181(2)	Barbering II	N1302535	12	1.5	Enrolment in Certification Program

Career Cluster	Manufacturing		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Pipefitting/Welding		340 350	AWS D1.1 Structural Steel AWS D9.1 Sheet Metal Welding	
Supplemental Requirement Group	BI-PF				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
	CTE Course @ ECHS Campus		9	0.5	
	CTE Course @ ECHS Campus		10	0.5	
301481(2) U01481(2)	Introduction to Welding and	13032250	11	0.5	Enrolment in Certification Program
301411(2) U01411(2)	Welding I	13032300	11	1	Enrolment in Certification Program
U01521(2)	Welding II	13032410	12	1.5	Enrolment in Certification Program

Career Cluster	Architecture & Construction		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Building Trades		630	NCCER Core	
Supplemental Requirement Group	BI-BT				

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
	CTE Course @ ECHS Campus		9	0.5	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
	CTE Course @ ECHS Campus		10	0.5	
300531(2) U00531(2)	Principles of Construction **and**	13004220	11	0.5	None
300671(2) U00671(2)	Mill & Cabinetmaking Technology	13005300	11	1	None
300071(2) U00071(2)	Practicum in Construction Technology (1st Time Taken)	13005255	12	1.5	Mill & Cabinetmaking Technology*
300081(2) U00081(2)	Practicum in Construction Technology 2nd Time Taken)	13005265	12	1.5	Mill & Cabinetmaking Technology*

Career Cluster	Architecture & Construction		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Electrical Technology		630	NCCER Core	
Supplemental Requirement Group	BI-ET		640 641	NCCER Electrical Level I NCCER Electrical Level II	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
	CTE Course @ ECHS Campus		9	0.5	
	CTE Course @ ECHS Campus		10	0.5	
U00111(2)	Electrical Technology I and	13005600	11	0.5	
U00121(2)	Electrical Technology II	13005700	12	0.5	
U00071(2)	Practicum in Construction Technology	13005255			

Career Cluster	Health Science		IBC PEIMS ID#	CTE Industry-Based Certification	
Program of Study	Diagnostic and Therapeutic Services		530 786	Emergency Medical Technician - Basic Phlebotomy Technician	
Supplemental Requirement Group	PS-HT		790 800	Patient Care Technician Pharmacy Technician	

Course Number	Course Name	PEIMS Number	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA-Required Prerequisites*
0T1101(2) UTE101(2)	Principles of Health Science	13020200	9-12	0.5	None
0T7341(2) UTE341(2)	Medical Terminology	13020300	10-12	0.5	Principles of Health Science
0T7351(2) UTE351(2)	Health Science Theory/Health Science Clinical	13020410	11-12	1	Medical Terminology and Biology*
U02321(2)	Practicum in Health Science	13020505	12	1.5	Health Science Theory and Biology*
U01141(2)	Practicum in Health Science (2nd Time Taken)	13020515	12	1.5	Health Science Theory and Biology*

CTE Courses

CTE courses listed below are offered to all high school students. These courses may be taken in addition to respective endorsement/program of study course sequence or as stand-alone electives. In addition, if scheduling permits, students have the opportunity to enroll in the first course of a respective program of study as a stand-alone elective.

Course Number	Course Name	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA Required Prerequisites*
300823 U00823	Professional Communications	9-12	1/2	None
LSK313	Professional Communications Alternate	9-12	1/2	ARDC approval (Local Credit)
SFL793	Professional Communications Alternate (SFL)	9-12	1/2	ARDC approval (Local Credit)
300883 U00883	Virtual Business	11-12	1/2	None
0T0831(2) U00831(2)	Business Information Management I	9-12	1/2	None
0T0751(2) U00751(2)	Business Information Management II	10-12	1/2	Business Information Management I*
0T0913 UT0913	Banking & Financial Services	9-12	1/2	None
300033 U00033	Touch System Data Entry	9-12	1/2	None
300041(2) U00041(2)	Robotics I	9-12	1/2	None
300051(2) U00051(2)	Robotics II	10-12	1/2	Robotics I
PEIMS N1304670	Introduction to Unmanned Aerial Vehicles (UAV)	10-12	1/2	None
PEIMS N1304672	Introduction to Aerospace and Aviation	10-12	½	None

Work-Based Learning CTE COURSES

The CTE Career Preparation Courses listed below are offered to all CTE students. Career Preparation provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. The Career Prep Course may be selected as the final course in respective sequence for CTE endorsement/program of study.

Course Number	Course Name	Grade Level	Per Unit Credit	BISD Recommended Prerequisites TEA Required Prerequisites*
301791(2) U01791(2)	Career Prep I	12	1.5	Minimum of 2 POS courses
VAC761(2)	Career Preparations I Alternate	11-12	1.5	ARDC approval (Local Credit)
302711(2) U02711(2)	Career Prep II	12	1.5	Minimum of 2 POS courses
VAC791(2)	Career Preparations II Alternate	11-12	1.5	ARDC approval (Local Credit)

STAMP & SPACE College Preparatory Academies are offered at all 6 high schools (Hanna, Lopez, Pace, Porter, Rivera, and Veterans).

Entrance Requirements include:

- Student's entrance requirement is to complete and pass 8th grade Algebra.
- Students must be in the 8th grade and be promoted to the 9thgrade.
- Students must submit an application packet and be accepted.
- Students must meet expectations on the required mandated state assessments for promotion.
  More information may be found on the STAMP website @ www.bisd.us/stampspace

Recommended Core Course Sequence

Grade	English	Math	Science	Social Studies
9th	English I Honors	Geometry Honors	Biology Honors	World History Honors/AP World Geography Honors or Human Geography AP
10th	English II Honors	Algebra II Honors/Dual	Chemistry Honors	World History Honors/AP World Geography Honors or Human Geography AP
11th	English III AP/ Dual	Pre-Calculus Honors/Dual	Physics Honors or Environmental Science AP	U.S. History AP
12th	English IV AP/ Dual	Calculus AB AP/Dual Statistics AP/Dual	Physics AP/Dual Chemistry AP/Dual Biology AP/Dual	Govt./Economics AP/Dual

STAMP & SPACE

STAMP Requirements (9th – 12th Grade):
- The STAMP curriculum consists of all advanced classes; therefore, all core area classes must be taken Honors/AP or Dual.
- STAMP students must follow the sequence of courses listed in the Course Listing Guide.
- Every school year, STAMP students must meet the eligibility criteria for the Honors Program.
- STAMP students cannot make up classes through credit recovery, STARS, summer school, or any type of modules.
- STAMP students must be placed in the STAMP cohort.
- Any STAMP student, who is failing a class at the end of the year, will be removed from the STAMP academy.
- A STAMP student is able to furlough for a semester if the course is not being offered and with the approval of the STAMP Administrator.