











# Boerne ISD CTE Programs of Study With IBC



Business & Industry


Pathway	Level 1	Level 2	Level 3	Level 4	Industry Based Certifications
<b>Agricultural Technology and Mechanical Systems</b> 	Principles of AFNR	Ag. Mechanics & Metal Tech. or Ag. Structures Design & Fabrication	Ag. Equipment Design & Fabrication	Practicum in AFNR (2)	AWS SENSE Welding (T2) AWS D1.1 Structural Steel (T2) AWS D9.1 Sheet Metal (T2)
<b>Animal Science</b> Ag, Food, & Natural Resources 	Principles of AFNR	Small Animal Management (.5) & Equine Science (.5)	Livestock Production	Practicum in AFNR (2) OR Advanced Animal Science (1)	ELANCO Fundamentals of Animal Science (T2) Certified Vet Assistant (T3)
<b>Plant Science</b> Ag, Food, & Natural Resources 	Principles of AFNR	Floral Design	Horticulture Science and/or Advanced Floral Design	Practicum in AFNR (2) OR Advanced Floral Design (1)	BASF Floral (T2) Benz Floral Level 1 (T3)
<b>Graphic Design &amp; Multimedia</b> Arts, A/V Tech, & Comm. 	Principles of AAVTC	Graphic Design & Illustration I	Graphic Design & Illustration II	Practicum in Graphic Design & Illustration (2)	Adobe Certified Professional Illustrator, Photoshop, or InDesign (T2)
<b>Digital Communications</b> Arts, A/V Tech, & Comm. 	Principles of AAVTC	Audio Video Production I	Audio Video Production II	Practicum in AV Production (2)	Adobe Certified Professional Premiere Pro or Photoshop (T2)
<b>Accounting &amp; Finance</b> Business, Marketing, & Finance 	Principles of Business, Marketing, & Finance	Accounting I or Financial Math	Accounting II	Practicum in Entrepreneurship (2)	Accounting Foundations (T2)
<b>Entrepreneurship</b> Business, Marketing, & Finance 	Principles of Business, Marketing, & Finance	Entrepreneurship I	Entrepreneurship II- Incubator	Practicum in Entrepreneurship (2)	Entrepreneurship & Small Business (T2)
<b>Real Estate</b> Business, Marketing, & Finance 	Principles of Business, Marketing, & Finance	Financial Math and/or Professional Communications (.5) or Entrepreneurship I	Fundamentals of Real Estate (2)	Practicum in Entrepreneurship (2)	Real Estate Sales Agent License (T1)
<b>Automotive</b> Transportation 	Principles of Transportation	Auto Basics (1)	Auto Tech I (2)	Practicum in Transportation Systems (2)	ASE Entry Level Certifications (T2)
<b>Architectural Design</b> Architecture & Construction 	Principles of Architecture	Architectural Design I	Architectural Design II (2)	Practicum in Architectural Design (2)	LEED Green Associate (T1)

STEM /Business & Industry

Pathway	Level 1	Level 2	Level 3	Level 4	Industry Based Certifications
<b>Culinary Arts</b> Hospitality & Tourism 	Intro to Culinary Arts	Culinary Arts (2)	Advanced Culinary Arts (2)	Practicum in Culinary Arts (2) OR Food Science (1)	Food Manager Certification (T2)
<b>Engineering Foundations</b> Engineering 	Engineering Design Process	Introduction to Computer Aided Design & Drafting or Engineering Science	Engineering Science or Engineering Design Presentation	Practicum in Engineering (2) OR Engineering Design Problem (1)	Autodesk Fusion 360 or Autodesk CAD (T2)
<b>Cybersecurity</b> Information Technology *PTECH 	Fundamentals of Comp. Sci.	Computer Science I *CompTIA Network+  Computer Maintenance*	AP Computer Science A  Networking* Digital Forensics DC PTECH*	Practicum in STEM (2)	CompTIA Network + (T1) CompTIA Security+ (T1)
<b>Programming &amp; Software Development</b> Information Technology *Esports 	Fundamentals of Comp. Sci.	Computer Science I *CompTIA Network+ or *Game Programming & Design	AP Computer Science A	Practicum in STEM (2)	CompTIA A+ (T1) or *Certified User: Programmer Unity (T2)
<b>Healthcare Diagnostic and Therapeutic Services</b> Health Science *PTECH 	Principles of Health Science	Medical Terminology	Health Science Theory and Anatomy and Physiology	Practicum in Health Science (2)	Certified Clinical Medical Assistant (T2) Certified EKG Tech (T2)
<b>Teaching &amp; Training</b> Education & Training 	Principles of Human Services	Child Development	Instructional Practices (2)	Practicum in Education (2)	Educational Aide I (T2)
<b>Early Learning</b> Education & Training 	Principles of Human Services	Child Development	Child Guidance (2)	Practicum in Early Learning (2)	Child Development Associate (T2)
<b>Family &amp; Community Services</b> Human Services 	Principles of Human Services	Child Development	Family & Community Services	Practicum in Human Services (2)	Community Health Worker (T2)

Public Services

Military Program

<b>JROTC</b> Air Force 	JROTC I Aerospace I Aviation History Leadership I Military Traditions & Foundations of Citizenship	JROTC II Aerospace II Science Of Flight Leadership II Communication Awareness	JROTC III Aerospace III Space Exploration Leadership III Life Skills & Career Opportunities	JROTC IV Aerospace IV World Cultures Leadership IV Fundamentals of Management	JROTC Leadership & Employability Skills *ASVAB
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