Boerne ISD CTE Programs of Study With IBC

Pathway	Level 1	Level 2	Level 3	Level 4	Industry Based Certifications
Agricultural Technology and Mechanical Systems	Principles of AFNR	Ag. Mechanics & Metal Tech. or Ag. Structures Design & Fabrication	Ag. Equipment Design & Fabrication	Practicum in AFNR (2)	AWS SENSE Welding AWS D1.1 Structural Steel AWS D9.1 Sheet Metal
Animal Science 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 NHJTCA Equine Management & Evaluation
Plant Science 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)	TSFA Floral Benz Floral Level 1
Graphic Design & Multimedia 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
Digital Communications 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 & Photoshop
Accounting & Finance Business, Marketing, & Finance	Principles of Business, Marketing, & Finance	Accounting I Financial Math	Accounting II	Practicum in Entrepreneurship (2)	Accounting Foundations
Entrepreneurship Business, Marketing, & Finance	Principles of Business, Marketing, & Finance	Entrepreneurship I	Entrepreneurship II- Incubator	Practicum in Entrepreneurship (2)	Entrepreneurship & Small Business
Real Estate 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
Automotive Transportation	Principles of Transportation	Auto Basics (1)	Auto Tech I (2)	Practicum in Transportation Systems (2)	ASE Entry Level Certifications
Architectural Design Architecture & Construction	Principles of Architecture	Architectural Design I	Architectural Design II (2)	Practicum in Architectural Design (2)	LEED Green Associate

Business & Industry

	Pathway	Level 1	Level 2	Level 3	Level 4	Industry Based Certifications
STEM /Business & Industry	**Culinary Arts** 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
	Engineering Foundations 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 Autodesk CAD
	Cybersecurity Information Technology ***PTECH**	Fundamentals of Comp. Sci. ****CompTIA A+**	Computer Science I ****CompTIA Network+** Computer Maintenance* **** CompTIA Linus+**	AP Computer Science A Networking* Digital Forensics DC PTECH* ****Cisco CCNA 200-301**	Practicum in STEM (2)	CompTIA A+ CompTIA ITF+
	Programming & Software Development Information Technology ***Esports**	Fundamentals of Comp. Sci.	Computer Science I ****CompTIA Network+** Game Programing & Design*	AP Computer Science A	Practicum in STEM (2)	CompTIA A+ or Unity*
Public Services	**Healthcare Diagnostic and Therapeutic Services** 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 EKG
	Teaching & Training Education & Training	Principles of Human Services	Child Development	Instructional Practices (2)	Practicum in Education (2)	Educational Aide I
	Early Learning Education & Training	Principles of Human Services	Child Development	Child Guidance (2)	Practicum in Early Learning (2)	Child Development Associate
	Family & Community Services Human Services	Principles of Human Services	Child Development	Family & Community Services	Practicum in Human Services (2)	Community Health Worker
	JROTC 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