

CTE Programs of Study

Business & Industry Endorsement

Completes three (3) or more courses for four (4) or more credits with at least one (1) Level 3 or 4 course and earn an Industry Based Certification.



BUSINESS & INDUSTRY ENDORSEMENT						
CAREER CLUSTER	PROGRAM OF STUDY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	INDUSTRY BASED CERTIFICATIONS
Agriculture, Food & Natural Resources	Agriculture Business, Leadership & Communications	7000 Principles of Agriculture, Food, and Natural Resources (1 cr.) 7208 College and Career Readiness—Professional Communications (.5 cr.)	7015 Professional Standards and Communication in Agribusiness (1 cr.) 7379 Entrepreneurship (1 cr.)	7496 Independent Study Mentorship (1 cr.)	7090 Practicum in Agriculture, Food and Natural Resources (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	
	Animal Science	7000 Principles of Agriculture, Food, and Natural Resources (1 cr.)	7010 Small Animal Management (.5 cr.) 7379 Entrepreneurship (1 cr.)	7018 Livestock Production (1 cr.) 7020 Veterinary Science (1 cr.)	7021 Advanced Animal Science (1 cr.) 7090 Practicum in Agriculture, Food, and Natural Resources (2 cr.) 7096 Practicum in Veterinary Science (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Certified Veterinary Assistant, Level 1 Elanco Fundamentals of Animal Science Elanco Veterinary Medical Applications
	Agricultural Technology & Mechanical Systems	7000 Principles of Agriculture, Food, and Natural Resources (1 cr.)	7070 Agricultural Mechanics and Metal Technologies (1 cr.)	7072/L Agricultural Structures Design and Fabrications/Lab (1 or 2 cr.)	7090 Practicum in Agriculture, Food, and Natural Resources (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	AWS D9.1 Sheet Metal
	Environmental & Natural Resources	7000 Principles of Agriculture, Food, and Natural Resources (1 cr.)	7017 Wildlife, Fisheries, and Ecology Management (1 cr.)	7496 Independent Study Mentorship (1 cr.)	7090 Practicum in Agriculture, Food, and Natural Resources (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	
	Food Science & Technology	---	7000 Principles of Agriculture, Food, and Natural Resources (1 cr.)	7620 Food Science (1 cr.)	7090 Practicum in Agriculture, Food, and Natural Resources (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	
	Plant Science	7000 Principles of Agriculture, Food, and Natural Resources (1 cr.)	7379 Entrepreneurship (1 cr.)	7030 Floral Design (1 cr.) 7033 Horticulture Science (1 cr.)	7090 Practicum in Agriculture, Food, and Natural Resources (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Texas State Florists' Association Knowledge Based Floral Certification Texas State Florists' Association Level 1 Floral Certification
Architecture & Construction	Carpentry	7145 Principles of Construction (1 cr.)	7146 Construction Technology-Design and Carpentry (2 cr.) 7379 Entrepreneurship (1 cr.)	7147 Construction Technology- Architecture and Electrical (2 cr.)	7148 Practicum in Construction Technology (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	NCCER Core NCCER Carpentry Level I
Arts, A/V Technology & Communication	Graphic Design & Interactive Media	7201 Digital Media (1 cr.)	7241 Graphic Design and Illustration I (1 cr.) 7231 Animation I (1 cr.) 7228 Commercial Photography (1 cr.) 7240 Fashion Design I (1 cr.) 7930 Game Programming and Design (1 cr.) 7379 Entrepreneurship (1 cr.)	7243 Graphic Design and Illustration II (1 cr.) 7233 Animation II (1 cr.) 7245 Fashion Design II (1 cr.)	7397/L Career Preparation I (2 or 3 cr.)	Content Creation & Marketing using Adobe Express
	Digital Communications	7208 College and Career Readiness—Professional Communications (.5 cr.)	7225 Audio/Video Production I (1 cr.) 7379 Entrepreneurship (1 cr.)	7226 Audio/Video Production II/Lab (2 cr.) 7229 Audio/Video Production II/Lab (1 cr.)	7227/L Practicum in Audio/Video Production/Extended (2 or 3 cr.) 7397/L Career Preparation I (2 or 3 cr.)	

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Business, Marketing & Finance	Accounting & Financial Services	7300 Principles of Business, Marketing and Finance (1 cr.)	7321 Foundations of Business Communication and Technologies (1 cr.) 7341 Accounting I (1 cr.) 7344 Financial Mathematics (1 cr.) 7379 Entrepreneurship (1 cr.)	7342 Accounting II (1 cr.)	7331 Practicum in Small Business Management I (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Accounting Foundations Intuit QuickBooks Certified User
	Business Management	7300 Principles of Business, Marketing and Finance (1 cr.)	7321 Foundations of Business Communication and Technologies (1 cr.) 7379 Entrepreneurship (1 cr.)	7331 Practicum in Small Business Management I (2 cr.)	7332 Practicum in Small Business Management II (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Entrepreneurship & Small Business General Management
	Entrepreneurship	7300 Principles of Business, Marketing and Finance (1 cr.)	7321 Foundations of Business Communication and Technologies (1 cr.) 7379 Entrepreneurship (1 cr.)	7331 Practicum in Small Business Management I (2 cr.)	7332 Practicum in Small Business Management II (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Entrepreneurship & Small Business
	Marketing & Sales	7300 Principles of Business, Marketing and Finance (1 cr.) 7201 Digital Media (1 cr.)	7350 Sports and Entertainment Marketing (.5 cr.) 7379 Entrepreneurship (1 cr.)	7375 Social Media Marketing (.5 cr.)	7397/L Career Preparation I (2 or 3 cr.)	Content Creation & Marketing using Adobe Express
	Retail Management	---	7300 Principles of Business, Marketing and Finance (1 cr.)	7331 Practicum in Small Business Management I (2 cr.)	7332 Practicum in Small Business Management II (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Entrepreneurship & Small Business
Engineering	Engineering Foundations	7904 Principles of Applied Engineering (1 cr.) (STREAM SCI) 7900 Engineering Design Process (1 cr.)	7975 Robotics I (1 cr.) 7921 Aerospace Design (1 cr.)	7911 Digital Electronics (1 cr.) 7920 Architectural and Civil Engineering (1 cr.) 7910 Engineering Science (1 cr.)	7940 Engineering Design and Problem Solving (1 cr.) 7976 Practicum in Robotics (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Engineering Technology Foundations
	Mechanical & Aerospace Engineering	7904 Principles of Applied Engineering (1 cr.) (STREAM SCI) 7900 Engineering Design Process (1 cr.)	7921 Aerospace Design (1 cr.)	7910 Engineering Science (1 cr.)	7940 Engineering Design and Problem Solving (1 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Engineering Technology Foundations
	Electrical Engineering	7904 Principles of Applied Engineering (1 cr.) (STREAM SCI) 7900 Engineering Design Process (1 cr.)	7975 Robotics I (1 cr.)	7911 Digital Electronics (1 cr.) 7910 Engineering Science (1 cr.)	7940 Engineering Design and Problem Solving (1 cr.) 7976 Practicum in Robotics (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Engineering Technology Foundations
Hospitality & Tourism	Culinary Arts	7608 Introduction to Culinary Arts (1 cr.)	7621 Culinary Arts (2 cr.) 7379 Entrepreneurship (1 cr.)	7622 Advanced Culinary Arts (2 cr.)	7620 Food Science (1 cr.) 7690 Practicum in Culinary Arts (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Food Protection Manager Certification

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Human Services	Cosmetology & Personal Care Services	---	7763 Introduction to Cosmetology (concurrent enrollment in 7763L Cosmetology I) (1 cr.) 7379 Entrepreneurship (1 cr.)	7763L Cosmetology I (concurrent enrollment in 7763 Introduction to Cosmetology) (2 cr.)	7765 Cosmetology II (3 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Cosmetology Operator License
Information Technology	Information Technology Support & Services	7931 Fundamentals of Computer Science (1 cr.)	7410 Computer Maintenance (1 cr.) 7379 Entrepreneurship (1 cr.)	7420 Computer Technician (2 cr.)	7431 Practicum in Computer Technician (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	CompTIA Tech+ CompTIA A+ CompTIA Network+
	Cybersecurity	7931 Fundamentals of Computer Science (1 cr.) 7937 Foundations of Cybersecurity (1 cr.)	7410 Computer Maintenance (1 cr.) 7932P AP Computer Science Principles (1 cr.)	7933P AP Computer Science A (1 cr.) 7935H Independent Study I: Computer Science (1 cr.)	7431 Practicum in Computer Technician (2 cr.) 7936H Independent Study II: Computer Science (1 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	CompTIA Tech+ CompTIA A+ CompTIA Network+ CompTIA Security+ Certified Entry-Level JavaScript Programmer Cybersecurity Fundamentals
	Networking Systems	7931 Fundamentals of Computer Science (1 cr.)	7410 Computer Maintenance (1 cr.) 7932P AP Computer Science Principles (1 cr.) 7379 Entrepreneurship (1 cr.)	---	7431 Practicum in Computer Technician (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	CompTIA Tech+ CompTIA A+ CompTIA Network+
	Programming & Software Development	7931 Fundamentals of Computer Science (1 cr.)	7930 Game Programming and Design (1 cr.) 7932P AP Computer Science Principles (1 cr.) 7379 Entrepreneurship (1 cr.)	7933P AP Computer Science A (1 cr.) 7935H Independent Study I: Computer Science (1 cr.)	7936H Independent Study II: Computer Science (1 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Certified Entry-Level JavaScript Programmer Certified Entry-Level Python Programmer (PCEP) Java SE Java Certified Foundations Associate
Manufacturing	Manufacturing Technology	7904 Principles of Applied Engineering (1 cr.) (STREAM SCI)	7159 Principles of Manufacturing (1 cr.) 7379 Entrepreneurship (1 cr.)	7161 Precision Metal Manufacturing I (2 cr.)	7162 Precision Metal Manufacturing II (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	NCCER Core
	Welding	7169 Introduction to Welding (concurrent enrollment in 7170 Welding I) (1 cr.)	7170 Welding I (concurrent enrollment in 7169 Introduction to Welding) (2 cr.) 7379 Entrepreneurship (1 cr.)	---	7171 Welding II (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	AWS D1.1 Structural Steel AWS D9.1 Sheet Metal AWS Certified Welder
Transportation, Distribution & Logistics	Automotive & Collision Repair	---	7379 Entrepreneurship (1 cr.)	7811 Automotive Technology I (2 cr.)	7812 Automotive Technology II (2 cr.) 7890 Practicum in Transportation Systems (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Various ASE Entry-Level Automobile Certifications

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Public Services Endorsement

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PUBLIC SERVICES ENDORSEMENT						
CAREER CLUSTER	PROGRAM OF STUDY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	INDUSTRY BASED CERTIFICATIONS
Education & Training	Early Learning	7709 Principles of Education and Training (1 cr.)	7713 Child Development (1 cr.)	7721 Child Guidance I (2 cr.)	7723 Child Guidance II (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Pre-Professional Certification in Early Childhood Educational Aide I
	Teaching & Training	7709 Principles of Education and Training (1 cr.)	7713 Child Development (1 cr.)	7711 Teacher Education Training I (2 cr.)	7712 Teacher Education Training II (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Educational Aide I
Health Science	Exercise Science, Wellness, & Restoration	7580 Principles of Allied Health (1 cr.) (STREAM VLI) 7501 Principles of Health Science (1 cr.)	7511 Medical Terminology (1 cr.) 7750 Interpersonal Studies (.5 cr.) 7500 Lifetime Nutrition and Wellness (.5 cr.) 7379 Entrepreneurship (1 cr.)	7550/H Anatomy and Physiology (1 cr.)	7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	
	Diagnostic & Therapeutic Services	7580 Principles of Allied Health (1 cr.) (STREAM VLI) 7501 Principles of Health Science (1 cr.)	7511 Medical Terminology (1 cr.)	7507 Patient Care Technician (1 cr.) 7550/H Anatomy and Physiology (1 cr.)	7530 Pathophysiology (1 cr.) 7504 Pharmacy Technician (2 cr.) 7560 Dentistry Practicum in Health Science (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Patient Care Technician Pharmacy Technician Registered Dental Assistant
	Biomedical Science	7501 Principles of Health Science (1 cr.) 7570 Principles of Biomedical Science (1 cr.)	7511 Medical Terminology (1 cr.) 7571 Human Body Systems (1 cr.) 7964 Biotechnology I (1 cr.)	7572 Medical Interventions (1 cr.) 7965 Biotechnology II (1 cr.) 7550/H Anatomy and Physiology (1 cr.)	7530 Pathophysiology (1 cr.) 7990 Practicum in Biotechnology (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	
	Nursing Science	7501 Principles of Health Science (1 cr.)	7511 Medical Terminology (1 cr.)	7507 Patient Care Technician (1 cr.) 7550/H Anatomy and Physiology (1 cr.)	7530 Pathophysiology (1 cr.) 7508 Certified Nursing Assistant-Practicum in Nursing (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Patient Care Technician Certified Nursing Assistant
	Health & Wellness	7340 Dollars and Sense (.5 cr.)	7750 Interpersonal Studies (.5 cr.) 7500 Lifetime Nutrition and Wellness (.5 cr.) 7713 Child Development (1 cr.) 7379 Entrepreneurship (1 cr.)	7620 Food Science (1 cr.)	7397/L Career Preparation I (2 or 3 cr.)	
Human Services						



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Science, Technology, Engineering & Math Endorsement

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SCIENCE, TECHNOLOGY, ENGINEERING & MATH ENDORSEMENT						
CAREER CLUSTER	PROGRAM OF STUDY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	INDUSTRY BASED CERTIFICATIONS
Engineering	Engineering Foundations	7904 Principles of Applied Engineering (1 cr.) (STREAM SCI) 7900 Engineering Design Process (1 cr.)	7975 Robotics I (1 cr.) 7921 Aerospace Design (1 cr.)	7911 Digital Electronics (1 cr.) 7920 Architectural and Civil Engineering (1 cr.) 7910 Engineering Science (1 cr.)	7940 Engineering Design and Problem Solving (1 cr.) 7976 Practicum in Robotics (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Engineering Technology Foundations
	Mechanical & Aerospace Engineering	7904 Principles of Applied Engineering (1 cr.) (STREAM SCI) 7900 Engineering Design Process (1 cr.)	7921 Aerospace Design (1 cr.)	7910 Engineering Science (1 cr.)	7940 Engineering Design and Problem Solving (1 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Engineering Technology Foundations
	Electrical Engineering	7904 Principles of Applied Engineering (1 cr.) (STREAM SCI) 7900 Engineering Design Process (1 cr.)	7975 Robotics I (1 cr.)	7911 Digital Electronics (1 cr.) 7910 Engineering Science (1 cr.)	7940 Engineering Design and Problem Solving (1 cr.) 7976 Practicum in Robotics (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Engineering Technology Foundations
Health Science	Biomedical Science	7501 Principles of Health Science (1 cr.) 7570 Principles of Biomedical Science (1 cr.)	7511 Medical Terminology (1 cr.) 7571 Human Body Systems (1 cr.) 7964 Biotechnology I (1 cr.)	7572 Medical Interventions (1 cr.) 7965 Biotechnology II (1 cr.) 7550/H Anatomy and Physiology (1 cr.)	7530 Pathophysiology (1 cr.) 7990 Practicum in Biotechnology (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	
	Nursing Science	7501 Principles of Health Science (1 cr.)	7511 Medical Terminology (1 cr.)	7507 Patient Care Technician (1 cr.) 7550/H Anatomy and Physiology (1 cr.)	7530 Pathophysiology (1 cr.) 7508 Certified Nursing Assistant-Practicum in Nursing (2 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Patient Care Technician Certified Nursing Assistant
Information Technology	Cybersecurity	7931 Fundamentals of Computer Science (1 cr.) 7937 Foundations of Cybersecurity (1 cr.)	7410 Computer Maintenance (1 cr.) 7932P AP Computer Science Principles (1 cr.)	7933P AP Computer Science A (1 cr.) 7935H Independent Study I: Computer Science (1 cr.)	7431 Practicum in Computer Technician (2 cr.) 7936H Independent Study II: Computer Science (1 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	CompTIA Tech+ CompTIA A+ CompTIA Network+ CompTIA Security+ Certified Entry-Level Java Script Programmer Cybersecurity Fundamentals
	Networking Systems	7931 Fundamentals of Computer Science (1 cr.)	7410 Computer Maintenance (1 cr.) 7932P AP Computer Science Principles (1 cr.) 7379 Entrepreneurship (1 cr.)	----	7431 Practicum in Computer Technician (2 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	CompTIA Tech+ CompTIA A+ CompTIA Network+
	Programming & Software Development	7931 Fundamentals of Computer Science (1 cr.)	7930 Game Programming and Design (1 cr.) 7932P AP Computer Science Principles (1 cr.) 7379 Entrepreneurship (1 cr.)	7933P AP Computer Science A (1 cr.) 7935H Independent Study I: Computer Science (1 cr.)	7936H Independent Study II: Computer Science (1 cr.) 7496 Independent Study Mentorship (1 cr.) 7397/L Career Preparation I (2 or 3 cr.)	Certified Entry-Level Java Script Programmer Certified Entry-Level Python Programmer (PCEP) Java SE Java Certified Foundations Associate