

CTE Programs of Study

Business & Industry Endorsement



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 & Communication	7000 Principles of Agriculture, Food, and Natural Resources 7208 College and Career Readiness—Professional Communications	7015 Professional Standards in Agribusiness 7379 Entrepreneurship	7496 Independent Study Mentorship	7090 Practicum in Agriculture, Food and Natural Resources	
	Animal Science	7000 Principles of Agriculture, Food, and Natural Resources	7010 Small Animal Management 7379 Entrepreneurship	7018 Livestock Production 7020 Veterinary Medical Applications	7021 Advanced Animal Science 7090 Practicum in Agriculture, Food, and Natural Resources 7096 Practicum in Veterinary Medicine 7496 Independent Study Mentorship	Certified Veterinary Assistant, Level 1
	Agricultural Technology & Mechanical Systems	7000 Principles of Agriculture, Food, and Natural Resources	7070 Agricultural Mechanics and Metal Technologies	7072/L Agricultural Structures Design and Fabrications/Lab	7090 Practicum in Agriculture, Food, and Natural Resources 7496 Independent Study Mentorship	AWS D9.1 Sheet Metal
	Environmental & Natural Resources	7000 Principles of Agriculture, Food, and Natural Resources	7017 Wildlife, Fisheries, and Ecology Management	7496 Independent Study Mentorship	7090 Practicum in Agriculture, Food, and Natural Resources	
	Food Science & Technology	----	7000 Principles of Agriculture, Food, and Natural Resources	7620 Food Science	7090 Practicum in Agriculture, Food, and Natural Resources 7496 Independent Study Mentorship	
	Plant Science	7000 Principles of Agriculture, Food, and Natural Resources	7379 Entrepreneurship	7030 Floral Design 7033 Horticulture Science	7090 Practicum in Agriculture, Food, and Natural Resources 7496 Independent Study Mentorship	Texas State Florists' Association Knowledge Based Floral Certification Texas State Florists' Association Level 1 Floral Certification
Architecture & Construction	Carpentry	7145 Principles of Construction	7146 Construction Technology-Design and Carpentry 7379 Entrepreneurship	7147 Construction Technology-Architecture and Electrical	7148 Practicum in Construction Technology	NCCER Carpentry Level I NCCER Core

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Arts, A/V Technology & Communication	Graphic Design & Interactive Media	7201 Digital Media	7241 Graphic Design and Illustration I 7231 Animation I 7228 Commercial Photography 7240 Fashion Design I 7930 Game Programming and Design 7379 Entrepreneurship	----	7243 Graphic Design and Illustration II 7233 Animation II 7245 Fashion Design II	
	Digital Communications	7208 College and Career Readiness—Professional Communications	7225 Audio/Video Production I 7379 Entrepreneurship	7226 Audio/Video Production II/Lab	7227/L Practicum in Audio/Video Production/Extended	
Business, Marketing & Finance	Accounting & Financial Services	7300 Principles of Business, Marketing and Finance	7321 Business Information Management 7341 Accounting I 7379 Entrepreneurship	7342 Accounting II	7331 Practicum in Small Business Management I	
	Business Management	7300 Principles of Business, Marketing and Finance	7321 Business Information Management 7379 Entrepreneurship	7343 Statistics and Business Decision Making	7331 Practicum in Small Business Management I	
	Entrepreneurship	7300 Principles of Business, Marketing and Finance	7321 Business Information Management 7379 Entrepreneurship	7343 Statistics and Business Decision Making	7331 Practicum in Small Business Management I 7496 Independent Study Mentorship	
	Marketing & Sales	7300 Principles of Business, Marketing and Finance 7201 Digital Media	7350 Sports and Entertainment Marketing 7379 Entrepreneurship	7375 Social Media Marketing	7343 Statistics and Business Decision Making	
	Retail Management	----	7300 Principles of Business, Marketing and Finance	7331 Practicum in Small Business Management I	7332 Practicum in Small Business Management II	
Engineering	Engineering Foundations	7900 Introduction to Engineering Design (PLTW)	7975 Robotics I	7921 Aerospace Engineering (PLTW) 7911 Digital Electronics 7920 Civil Engineering and Architecture (PLTW) 7910 Engineering Science	7940 Engineering Design and Development 7976 Practicum in Robotics 7496 Independent Study Mentorship	
	Mechanical and Aerospace Engineering	----	7900 Introduction to Engineering Design (PLTW)	7921 Aerospace Engineering (PLTW) 7910 Engineering Science	7940 Engineering Design and Development 7496 Independent Study Mentorship	

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Engineering Cont'd	Electrical Engineering	7900 Introduction to Engineering Design (PLTW)	7975 Robotics I	7911 Digital Electronics 7910 Engineering Science	7940 Engineering Design and Development 7976 Practicum in Robotics 7496 Independent Study Mentorship	
Hospitality & Tourism	Culinary Arts	7608 Introduction to Culinary Arts	7621 Culinary Arts 7379 Entrepreneurship	7622 Advanced Culinary Arts	7620 Food Science 7690 Practicum in Culinary Arts	Food Protection Manager Certification
Human Services	Cosmetology and Personal Care Services	----	7763 Introduction to Cosmetology (concurrent enrollment in 7763L Cosmetology I) 7379 Entrepreneurship	7763L Cosmetology I (concurrent enrollment in 7763 Introduction to Cosmetology)	7765 Cosmetology II	Cosmetology Operator License
Information Technology	Information Technology Support and Services	7931 Fundamentals of Computer Science	7410 Computer Maintenance 7379 Entrepreneurship	7420 Computer Technician	7431 Practicum in Computer Technician 7496 Independent Study Mentorship	CompTIA Tech+ CompTIA A+
	Cybersecurity	7931 Fundamentals of Computer Science	7410 Computer Maintenance 7932P AP Computer Science Principles	7933P AP Computer Science A	7934H Cybersecurity 7431 Practicum in Computer Technician 7935H Independent Study: Computer Science 7496 Independent Study Mentorship	CompTIA Tech+ CompTIA A+ CodeHS Cybersecurity Level I
	Networking Systems	7931 Fundamentals of Computer Science	7410 Computer Maintenance 7932P AP Computer Science Principles 7379 Entrepreneurship	7496 Independent Study Mentorship	7431 Practicum in Computer Technician	CompTIA Tech+ CompTIA A+
	Programming and Software Development	7931 Fundamentals of Computer Science	7930 Game Programming & Design 7932P AP Computer Science Principles 7379 Entrepreneurship	7933P AP Computer Science A	7496 Independent Study Mentorship	
Manufacturing	Manufacturing Technology	----	7159 Principles of Manufacturing	7161 Precision Metal Manufacturing I	7162 Precision Metal Manufacturing II	NCCER Core
	Welding	7169 Introduction to Welding (concurrent enrollment in 7170 Welding I)	7170 Welding I (concurrent enrollment in 7169 Introduction to Welding) 7379 Entrepreneurship	----	7171 Welding II	AWS D1.1 Structural Steel AWS D9.1 Sheet Metal
Transportation, Distribution & Logistics	Automotive and Collision Repair	----	7379 Entrepreneurship	7811 Automotive Technology I	7812 Automotive Technology II 7890 Practicum in Transportation Systems	Various ASE Entry-Level Automobile Certifications

CTE Programs of Study

Public Services Endorsement



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	7713 Child Development	7721 Child Guidance I	7723 Child Guidance II 7496 Independent Study Mentorship	Pre-Professional Certification in Early Childhood Educational Aide I
	Teaching and Training	7709 Principles of Education and Training	7713 Child Development	7711 Teacher Education Training I	7712 Teacher Education Training II 7496 Independent Study Mentorship	Educational Aide I
Health Science	Exercise Science, Wellness, and Restoration	7501 Principles of Health Science	7511 Medical Terminology 7750 Interpersonal Studies 7500 Lifetime Nutrition and Wellness 7379 Entrepreneurship	7550/H Anatomy and Physiology	7496 Independent Study Mentorship	
	Diagnostic and Therapeutic Services	7501 Principles of Health Science	7511 Medical Terminology	7507 Patient Care Technician 7550/H Anatomy and Physiology	7530 Pathophysiology 7504 Pharmacy Technician 7560 Dentistry Practicum in Health Science	Patient Care Technician Pharmacy Technician Registered Dental Assistant
	Biomedical Science	7501 Principles of Health Science 7570 Principles of Biomedical Science (PLTW)	7511 Medical Terminology 7571 Human Body Systems (PLTW) 7964 Biotechnology I	7572 Medical Interventions (PLTW) 7965 Biotechnology II 7550/H Anatomy and Physiology	7530 Pathophysiology 7573 Biomedical Innovation (PLTW) 7990 Practicum in Biotechnology 7496 Independent Study Mentorship	
	Nursing Science	7501 Principles of Health Science	7511 Medical Terminology	7507 Patient Care Technician 7550/H Anatomy and Physiology	7530 Pathophysiology 7508 Certified Nursing Assistant-Practicum in Nursing	Patient Care Technician Certified Nursing Assistant
Human Services	Health and Wellness	7340 Dollars and Sense	7750 Interpersonal Studies 7500 Lifetime Nutrition and Wellness 7713 Child Development 7379 Entrepreneurship	----	7620 Food Science	

CTE Programs of Study

Science, Technology, Engineering & Math Endorsement



SCIENCE, TECHNOLOGY, ENGINEERING & MATH ENDORSEMENT

CAREER CLUSTER	PROGRAM OF STUDY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	INDUSTRY BASED CERTIFICATIONS
Engineering	Engineering Foundations	7900 Introduction to Engineering Design (PLTW)	7975 Robotics I	7921 Aerospace Engineering (PLTW) 7911 Digital Electronics 7920 Civil Engineering and Architecture (PLTW) 7910 Engineering Science	7940 Engineering Design and Development 7976 Practicum in Robotics 7496 Independent Study Mentorship	
	Mechanical and Aerospace Engineering	----	7900 Introduction to Engineering Design (PLTW)	7921 Aerospace Engineering (PLTW) 7910 Engineering Science	7940 Engineering Design and Development 7496 Independent Study Mentorship	
	Electrical Engineering	7900 Introduction to Engineering Design (PLTW)	7975 Robotics I	7911 Digital Electronics 7910 Engineering Science	7940 Engineering Design and Development 7976 Practicum in Robotics 7496 Independent Study Mentorship	
Health Science	Biomedical Science	7501 Principles of Health Science 7570 Principles of Biomedical Science (PLTW)	7511 Medical Terminology 7571 Human Body Systems (PLTW) 7964 Biotechnology I	7572 Medical Interventions (PLTW) 7965 Biotechnology II 7550/H Anatomy and Physiology	7530 Pathophysiology 7573 Biomedical Innovation (PLTW) 7990 Practicum in Biotechnology 7496 Independent Study Mentorship	
	Nursing Science	7501 Principles of Health Science	7511 Medical Terminology	7507 Patient Care Technician 7550/H Anatomy and Physiology	7530 Pathophysiology 7508 Certified Nursing Assistant-Practicum in Nursing	Patient Care Technician Certified Nursing Assistant
Information Technology	Cybersecurity	7931 Fundamentals of Computer Science	7410 Computer Maintenance 7932P AP Computer Science Principles	7933P AP Computer Science A	7934H Cybersecurity 7431 Practicum in Computer Technician 7935H Independent Study: Computer Science 7496 Independent Study Mentorship	CompTIA Tech+ CompTIA A+ CodeHS Cybersecurity Level I
	Networking Systems	7931 Fundamentals of Computer Science	7410 Computer Maintenance 7932P AP Computer Science Principles 7379 Entrepreneurship	7496 Independent Study Mentorship	7431 Practicum in Computer Technician	CompTIA Tech+ CompTIA A+
	Programming and Software Development	7931 Fundamentals of Computer Science	7930 Game Programming & Design 7932P AP Computer Science Principles 7379 Entrepreneurship	7933P AP Computer Science A	7496 Independent Study Mentorship	