

Career and Technical Education – Programs of Study – At a Glance 2024-25

Program of Study	Level 1	Level 2	Level 3	Level 4	Certifications
Agriculture Food & Natural Resources					
Animal Science	Principles of Agriculture, Food & Natural Resources		Livestock Production	Advanced Animal Science; Veterinary Medical; Practicum in Agricultural, Food, & Natural Resources	Elanco Veterinary Medical Applications Elanco Fundamentals of Animal Science
Agricultural Technology & Mechanical Systems	Principles of Agriculture, Food & Natural Resources	Agricultural Mechanics & Metal Technologies	Agricultural Structures Design & Fabrications; Agricultural Power Systems	Practicum in Agricultural, Food, & Natural Resources	AWS Sense Level I: Entry Welder AWS D1.1 Structural Steel
Environmental and Natural Resources	Principles of Agriculture, Food & Natural Resources	Wildlife, Fisheries, and Ecology Management		Practicum in Agricultural, Food, & Natural Resources	
Plant Science	Principles of Agriculture, Food & Natural Resources	<i>Landscape Design and Management (CMS)</i>	Floral Design; Horticulture Science	Practicum in Agricultural, Food, & Natural Resources; Advanced Plant and Soil Science; Advanced Floral Design	Texas State Level 1 & 2 Floral Certification
Arts, A/V Technology & Communications					
Digital Communications	Principles of Arts, A/V Technology & Communications Professional Communications	Audio/Video Production I	Audio/Video Production II	Practicum of A/V Production; Career Preparation I	
Graphic Design & Interactive Media	Principles of Arts, A/V Technology & Communications Video Game Design	Graphic Design & Illustration I; Digital Design & Media Production	Graphic Design & Illustration II	Practicum of Graphic Design & Illustration; Career Preparation I	Adobe Certified Professional in Graphic Design and Illustrator
Business Management					
Business Management	Principles of Business, Marketing & Finance; Business Information Management I	Business Information Management II		Career Preparation I	Microsoft Office Expert Word and Excel
Accounting & Financial Services	Principles of Business, Marketing & Finance; Business Information Management I	Accounting I; Financial Mathematics	Accounting II	Career Preparation I	Microsoft Office Expert: Excel
Education & Training					
Teaching & Training	Principles of Education & Training; Principles of Human Services	Child Development	Instructional Practices	Practicum in Education & Training Career Preparation I	
Early Learning	Principles of Education & Training; Principles of Human Services	Child Development		Career Preparation I	
Human Services					
Family & Community Services	Principles of Human Services; Professional Communications; <i>Dollars and Sense (MS)</i>	Lifetime Nutrition & Wellness; Child Development; Interpersonal Studies	Family and Community Services	Career Preparation I	
Health & Wellness	Principles of Human Services; <i>Dollars and Sense (CMS)</i>	Lifetime Nutrition & Wellness; Child Development; Interpersonal Studies	Family and Community Services	Career Preparation I	
Cosmetology & Personal Care Services	Principles of Cosmetology	Introduction to Cosmetology; Esthetics; Nail Care, Enhancements, and Spa Services	Cosmetology I/Lab	Cosmetology II/Lab	Cosmetology Operator License (<i>post-graduation</i>) Cosmetology Certificate from Del Mar College
Health Science					
Diagnostics and Therapeutic Services	Principles of Health Science	Medical Terminology	Health Science Theory/Clinical; Anatomy & Physiology; EKG/Phlebotomy; Medical Microbiology	Pharmacology; Practicum /Certified Medical Assistant, Patient Care	Clinical Medical Assistant Certified EKG Tech Certified Nurse Aide Certified EKG Tech Patient Care Technician Pharmacy Technician Phlebotomy Technician
Exercise Science, Wellness, and Restoration	Principles of Health Science	Interpersonal Studies; Lifetime Nutrition & Wellness; Medical Terminology	Anatomy & Physiology; EKG/Phlebotomy; Health Science Theory/Clinical	Certified Medial Assistant/Patient Care Career Preparation I	TBA
Law and Public Service					
Law Enforcement	Principles of Law, Public Safety, Corrections, & Security	Law Enforcement I	Law Enforcement II	Practicum in Law, Public Safety, Corrections, & Security; Forensic Science	
Fire Science	Principles of Law, Public Safety, Corrections, & Security		Firefighter 1; Emergency Medical Tech;	Firefighter 2	Basic Firefighter – Level II Certificate from Del Mar

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			Anatomy & Physiology		
Legal Studies	Principles of Law, Public Safety, Corrections, & Security	Court Systems and Practices; Foundations of Court Reporting	Advanced Legal Systems & Professions;	Realtime Court Reporting; Forensic Science; Career Preparation I	Information Reporting/ Scoping Certificate from Del Mar College
Science, Technology, Engineering & Mathematics					
Programming & Software Development		Computer Science I; AP Computer Science Principles	Computer Science II; AP Computer Science A MATH/ LOTE	Computer Science III	C++ Certified Associate Programmer Certified Entry Level Python Programmer Oracle Certified Associate Java SE 8 Programmer
Engineering Foundations	Introduction to Engineering Design (PLTW)	CAD I (AutoCAD/Revit)	Engineering Science (PLTW); CAD II (Inventor/SolidWorks)	Engineering Design & Problem Solving;	Autodesk AutoCAD Certification Autodesk Inventor Certification Autodesk Revit Architecture
Energy					
Refining & Chemical Processes		Intro to Process Technology; Intro to Instrumentation and Electrical; CTC Instrumentation I	Petrochemical Safety, Health, and Environment; Advanced Instrument and Electrical	Applied Math for Industry	NCCER Instrumentation Level I; Process Tech-Industrial Instrumentation Installer Level 1 Certificate from Del Mar
Oil & Gas Exploration & Production	Process Technology I	Process Technology II		Career Preparation I; Applied Mathematics for Industry	
Architecture and Construction					
HVAC & Sheet Metal	<i>Principles of Construction (CMS)</i>	Heating, Ventilation Air Conditioning and Refrigeration I	Heating, Ventilation Air Conditioning and Refrigeration II	Heating, Ventilation Air Conditioning and Refrigeration III; Career Preparation I	Air Conditioning Applied Technology Level 1 Certificate from Del Mar
Plumbing & Pipefitting	<i>Principles of Construction (CMS);</i> Introduction to Welding	CTC Pipefitting Technology I	CTC Pipefitting Technology II	Career Preparation I	NCCER Pipefitting Level I
Electrical	<i>Principles of Construction (CMS)</i>	Electrical Technology I	Electrical Technology II	Career Preparation I	NCCER Electrical Level I & II
Manufacturing Technology		Non-Destructive Testing I	Non-Destructive Testing II	Career Preparation I	Level I or II Certification Millwright and Machining Level I & II Certification Non-Destructive Testing
Manufacturing					
Welding	Introduction to Welding	Welding I	Welding II/Lab; Welding III	Career Preparation I	NCCER Core; NCCER Welding Level I; Welding Applied Tech – Intermediate Welding Certificate from Del Mar
Transportation, Distribution and Logistics					
Automotive and Collision Repair		Automotive Basics	Automotive Technology I	Automotive Technology II/Lab; Career Preparation I	Level I Certification Automotive

Courses are not grade-level specific. See course catalog for prerequisites.