

DeSoto High School
Programs of Study 2023-2024

BUSINESS AND INDUSTRY ENDORSEMENT
Agriculture, Food, and Natural Resources Program of Study

Animal Science Pathway

This program of study focuses on the science, research, and business of animals and other living organisms. It teaches students how to apply biology and life science to real-world life processes of animals and wildlife which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16055	Principles of Ag, Food, and Natural Resources	1	13000200	
Level 2	16015	Small Animal Management (One Semester)	0.5	13000400	
Level 2	16000	Equine Science (One Semester)	0.5	13000500	
Level 3	16013	Livestock Production	1	13000300	
Level 3	16020	Veterinary Medical Applications (Prerequisites: Equine Science, Small Animal Management, or Livestock Production)	1	13000600	
Level 4	16010	Advanced Animal Science* (Prerequisites: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production)	1	13000700	Science
Level 4	16060	Practicum in Ag, Food, & Natural Resources (Double Block)	2	13002500	

Applied Agricultural Engineering Pathway

This program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing agricultural products.

Level 1	16055	Principles of Ag, Food, and Natural Resources	1	13000200	
Level 2	16120	Agricultural Mechanics and Metal Technologies/Lab (Double Block) Formerly Intro to Welding	2	13002210	
Level 3	16121	Agricultural Structures Design and Fabrication/Lab (Double Block) Formerly Welding I	2	13002310	
Level 4	16122	Agricultural Equipment Design and Fabrication/Lab (Double Block) Formerly Welding II	2	13002360	

BUSINESS AND INDUSTRY ENDORSEMENT
Arts, Audio/Video Technology, and Communication Program of Study

Digital Communications Pathway

This program of study explores the occupations and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. This program of study may also include exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16150	Principles of Arts, A/V Tech & Communications	1	13008200	
Level 2	16155	Audio/Video Production I	1	13008500	
Level 2	16171	Digital Audio Technology I	1	13009950	
Level 3	16685	Audio/Video Production II/Lab (Double Block) (Prerequisite: Audio/Video Production I)	2	13008610	
Level 3	16172	Digital Audio Technology II (Prerequisite: Digital Audio Technology I)	1	13009960	
Level 4	16690	Practicum in A/V Production (Double Block)	2	13008700	

Design & MultiMedia Arts Pathway

This program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into designing clothing and accessories, and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials.

Level 1	16150	Principles of Arts, A/V Tech & Communications	1	13008200	
Level 2	16665	Graphic Design & Illustration	1	13008800	
Level 2	16200	Fashion Design	1	13009300	
Level 2	16675	Animation I	1	13008300	
Level 3	16667	Graphic Design & Illustration II/Lab (Double Block) (Prerequisite: Graphic Design & Illustration I)	2	13008910	
Level 3	16205	Fashion Design II/Lab (Double Block) (Prerequisite: Fashion Design I)	2	13009410	
Level 3	16680	Animation II/Lab (Double Block) (Prerequisite: Animation I)	2	13008410	
Level 4	16670	Practicum in Graphic Design & Illustration (Double Block)	2	13009000	
Level 4	16681	Practicum in Animation (Double Block)	2	13008450	
Level 4	16335	Career Preparation I (Double Block)	2	12701300	

BUSINESS AND INDUSTRY ENDORSEMENT

Architecture and Construction Program of Study

Electrical Pathway (P-TECH)

This program of study explores the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. This program of study may also include exploration into installing and repairing telecommunications cable including fiber optics.

Level	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16893	Principles of Construction	1	13004220	
Level 2	16638	Electrical Technology I	1	13005600	
Level 3	16639	Electrical Technology II (Double Block) (Prerequisite: Electrical Technology I)	2	13005700	
Level 4	16894	Practicum in Construction Technology (Double Block)	2	13005250	

BUSINESS AND INDUSTRY ENDORSEMENT

Business, Marketing, and Finance Program of Study

Business Management Pathway (P-TECH)

This program of study teaches CTE concentrators how to plan, direct, and coordinate the administrative services and operations of an organization. Students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use of materials and human resources.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16255	Principles of Business, Marketing & Finance	1	13011200	
Level 2	16260	Business Information Management I	1	13011400	
Level 2	16270	Business Law	1	13011700	
Level 3	16275	Business Management	1	13012100	
Level 3	16265	Business Information Management II (Prerequisite: Business Information Management)	1	13011500	
Level 4	16295	Practicum in Business Management (Double Block)	2	13012200	

Marketing and Sales Pathway

This program of study teaches CTE concentrators how to collect information to determine potential sales of a product or service and/or create a marketing campaign to market or distribute goods and services. Students will learn the skills necessary to understand and apply data on customer demographics, preferences, needs, and buying habits.

Level	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16255	Principles of Business, Marketing & Finance	1	13011200	
Level 2	19101	Marketing	1	N1303424	
Level 3	16811	Social Media Marketing (One Semester)	0.5	13034650	
Level 3	16795	Advertising (One Semester)	0.5	13034200	
Level 4	16781	Practicum in Marketing (Double Block)	2	13034800	

BUSINESS AND INDUSTRY ENDORSEMENT

Hospitality and Tourism Program of Study

Culinary Arts Pathway

This program of study introduces students to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16505	Intro to Culinary Arts	1	13022550	
Level 2	16510	Culinary Arts (Double Block)	2	13022600	
Level 3	16517	Advanced Culinary Arts (Double Block) (Prerequisite: Culinary Arts)	2	13022650	
Level 4	16515	Practicum in Culinary Arts (Double Block) (Prerequisite: Advanced Culinary Arts)	2	13022700	

BUSINESS AND INDUSTRY ENDORSEMENT

Information Technology Program of Study

Information Technology Support and Services Pathway

This pathway explores the occupations and educational opportunities associated with administering, testing, and implementing computer databases and applying knowledge of database management systems. It may also include analyzing user requirements and problems to automate or improve existing systems and review computer system capabilities.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16640	Principles of Information Technology	1	13027200	
Level 2	16661	Computer Maintenance	1	13027300	
Level 3	16662	Computer Technician Practicum (Double Block)	2	13027500	
Level 4	16658	Practicum in Information Technology (Double Block) (Prerequisite: Minimum of two information technology courses)	2	13028000	

BUSINESS AND INDUSTRY ENDORSEMENT

Transportation, Distribution, and Logistics

Automotive Pathway (P-TECH)

This pathway teaches students how to repair and refinish automobiles and service various types of vehicles. Students may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16298	Principles of Transportation Systems	1	13039250	
Level 2	16866	Automotive Technology I (Dual Credit) (Double Block)	2	13039600	
Level 3	16869	Automotive Technology II (Dual Credit) (Double Block) (Prerequisite: Automotive Technology I Dual Credit)	2	13039700	
Level 4	16867	Pract in Transportation Systems (Dual Credit) (Double Block)	2	13040450	

Automotive Pathway (General Studies)

This program of study teaches students how to repair and refinish automobiles and service various types of vehicles. Students may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.

Level 1	16298	Principles of Transportation Systems	1	13039250	
Level 2	16861	Automotive Basics	1	13039550	
Level 3	16868	Automotive Technology I (Double Block)	2	13039600	
Level 4	16870	Automotive Technology II (Double Block) (Prerequisite: Automotive Technology I)	2	13039700	

STEM ENDORSEMENT

STEM Program of Study

Programming and Software Development Pathway

This pathway explores the occupations and education opportunities associated with researching, designing, developing, and testing operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This pathway may also include exploration into creating, modifying, and testing the codes, forms, and script that allow computer applications to run.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16645	Computer Science I (Prerequisite: Algebra I)	1	13027600	
Level 2	16650	AP Computer Science Principles	1	A3580300	
Level 3	16663	AP Computer Science A	1	A3580100	
Level 4	16658	Practicum in Information Technology (Double Block) (Prerequisite: Minimum of two information technology courses)	2	13028000	

Cyber Security Pathway

The Cybersecurity pathway includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16645	Computer Science I (Prerequisite: Algebra I)	1	13027600	
Level 2	16650	AP Computer Science Principles	1	A3580300	
Level 3	16663	AP Computer Science A	1	A3580100	
Level 4	19100	Cybersecurity Capstone	1	3580855	

Engineering Pathway

This pathway focuses on the design, development, and use of engines, machines, and structures. Students will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.

Level 1	16887	Principles of Applied Engineering	1	13036200	
Level 2	16885	Engineering Design & Presentation (Prerequisite: Algebra I)	1	13036500	
Level 3	16892	Engineering Design & Problem Solving* (Prerequisite: Algebra I and Geometry)	1	13037300	Science
Level 4	16692	Practicum in STEM (Double Block)	2	13037400	

PUBLIC SERVICES ENDORSEMENT

Education and Training Program of Study

Teaching and Training Pathway

This pathway prepares students for careers related to teaching, instruction, and creation of instructional and enrichment materials. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.

Level 1	16350	Principles of Education and Training	1	13014200	
Level 2	16380	Human Growth & Development	1	13014300	
Level 2	16585	Child Development	1	13024700	
Level 3	16356	Instructional Practices (Double Block) (Prerequisite: One credit from Teaching and Training Pathway)	2	13014400	
Level 4	16360	Practicum in Education & Training (Double Block) (Prerequisite: Instructional Practices)	2	13014500	

PUBLIC SERVICES ENDORSEMENT

Human Services Program of Study

Family and Community Services Pathway

This pathway introduces students to knowledge and skills related to social services, including child and human development and consumer sciences. Students may learn about or practice managing social and community services or teaching family and consumer sciences. Students may follow career paths in social work or therapy for children, families, or school communities.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16565	Principles of Human Services	1	13024200	
Level 2	16380	Human Growth & Development	1	13014300	
Level 2	16585	Child Development	1	13024700	
Level 3	16568	Family and Community Services	1	13024900	
Level 4	16463	Practicum in Human Services (Double Block)	2	13025000	

Cosmetology Pathway

Level 1	16550	Intro to Cosmetology	1	13025100	
Level 2	16555	Cosmetology I/Lab (Triple Block) (Prerequisite: Intro to Cosmetology)	3	13025210	
Level 3	16560	Cosmetology II/Lab (Triple Block) (Prerequisite: Cosmetology I)	3	13025310	
Level 4	16463	Practicum in Human Services (Double Block)	2	13025000	

PUBLIC SERVICES ENDORSEMENT

Health Science Program of Study

Healthcare Therapeutic - Certified Nurse Aide Pathway

This pathway introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness as part of a healthcare team. It also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
Level 1	16450	Principles of Health Science	1	13020200	
Level 2	16480	Medical Terminology	1	13020300	
Level 3	16451	Health Science Theory/Clinical (Double Block) (Prerequisites: Principles of Health Science, Medical Terminology & Biology)	2	13020410	
Level 4	16466	Practicum in Health Science - Certified Nurse Aide (Double Block) (Prerequisite: Health Science Theory/Clinical & Biology)	2	13020500	

Healthcare Therapeutic - Phlebotomy Pathway

This program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness as part of a healthcare team. It also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

Level 1	16450	Principles of Health Science	1	13020200	
Level 2	16480	Medical Terminology	1	13020300	
Level 3	16451	Health Science Theory/Clinical (Double Block) (Prerequisites: Principles of Health Science, Medical Terminology & Biology)	2	13020410	
Level 4	16460	Practicum in Health Science - Phlebotomy (Double Block) (Prerequisite: Health Science Theory/Clinical & Biology)	2	13020500	

Nursing Science Pathway

This pathway introduces students to knowledge and skills related to patient care. Students may learn about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management. Students may focus on the healthcare system and research system designs and make recommended modifications.

Level 1	16450	Principles of Health Science	1	13020200	
Level 2	16480	Medical Terminology	1	13020300	
Level 3	16465	Anatomy & Physiology* (Prerequisite: Biology and a 2nd science credit)	1	13020600	Science
Level 4	16470	Pathophysiology* (Prerequisite: Biology and Chemistry)	1	13020800	Science

PUBLIC SERVICES ENDORSEMENT

Law and Public Service Program of Study

Law Enforcement Pathway

This pathway teaches students about the development of, adherence to, and protection of various branches of law. Students may learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.

Level 1	16725	Principles of Law, Public Safety, Corrections & Security	1	13029200	
Level 2	16730	Law Enforcement I	1	13029300	
Level 3	16750	Law Enforcement II (Prerequisite: Law Enforcement I)	1	13029400	
Level 4	16745	Forensic Science* (Prerequisites: Biology & Chemistry)	1	13029500	Science
Level 4	16755	Practicum in Law, PS, Corrections & Security (Double Block)	2	13030100	

CTE GENERAL ELECTIVE COURSES

The following courses can be taken as general elective courses for all students:

- Lifetime Nutrition and Wellness (0.5) 16570
- Dollars and Sense (0.5) 16595
- Advertising (0.5) 16795
- Social Media Marketing (0.5) 16811
- Floral Design (1) 16090
- Money Matters (1) 16415
- Employability Skills (1) 16351
- Business Information Management (1) 16260
- Business Information Management II (1) 16265
- Career Preparation I (2) 16337
- Professional Communications (0.5) 12170