

BUSINESS AND INDUSTRY ENDORSEMENT

Agriculture, Food, and Natural Resources Program of Study

Animal Science (T-STEM/A2E2)

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
9	16055	Principles of Ag, Food, and Natural Resources	1	13000200	
10	16015	Small Animal Management (One Semester)	0.5	13000400	
10	16000	Equine Science (One Semester)	0.5	13000500	
10	16013	Livestock Production	1	13000300	
11	16020	Veterinary Medical Applications	1	13000600	
12	16010	Advanced Animal Science*	1	13000700	Science
12	16060	Practicum in Ag, Food, & Natural Resources (Double Block)	2	13002500	

Plant Science (T-STEM/A2E2)

This program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply biology and life science to real-world life processes of plants and vegetation.

9	16055	Principles of Ag, Food, and Natural Resources	1	13000200	
10	16080	Horticulture Science	1	13002000	
11	16090	Floral Design*	1	13001800	Fine Art
12	16100	Advanced Plant and Soil Science*	1	13002100	Science
12	16095	Practicum in Ag, Food, & Natural Resources (Double Block)	2	13002500	

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Arts, Audio/Video Technology, and Communication Program of Study

Digital Communications (T-STEM)

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
9	16150	Principles of Arts, A/V Tech & Communications	1	13008200	
10	16155	Audio/Video Production I	1	13008500	
10	16171	Digital Audio Technology I	1	13009950	
11	16685	Audio/Video Production II/Lab (Double Block)	2	13008610	
11	16172	Digital Audio Technology II	1	13009960	
12	16690	Practicum in A/V Production (Double Block)	2	13008700	

Design & MultiMedia Arts (T-STEM)

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.

9	16150	Principles of Arts, A/V Tech & Communications	1	13008200	
10	16655	Digital Media	1	13027800	
10	16665	Graphic Design & Illustration	1	13008800	
10	16200	Fashion Design	1	13009300	
10	16675	Animation I	1	13008300	
11	16667	Graphic Design & Illustration II/Lab (Double Block)	2	13008910	
11	16205	Fashion Design II/Lab (Double Block)	2	13009410	
11	16680	Animation II/Lab (Double Block)	2	13008410	
12	16670	Practicum in Graphic Design & Illustration (Double Block)	2	13009000	
12	16681	Practicum in Animation (Double Block)	2	13008450	

BUSINESS AND INDUSTRY ENDORSEMENT

Transportation, Distribution, and Logistics

Automotive (Dual Credit) (T-STEM/A2E2)

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.

Grade	Course #		Credits	PEIMS #	Core Credit Option
9	16298	Principles of Transportation Systems	1	13039250	
10	16868	Automotive Technology I (Double Block)	2	13039600	
11	16869	Automotive Technology II (Dual Credit) (Double Block)	2	13039700	
12	16867	Pract in Transportation Systems (Dual Credit) (Double Block)	2	13040450	

Automotive (General Studies) (T-STEM/A2E2)

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.

9	16298	Principles of Transportation Systems	1	13039250	
10	16868	Automotive Technology I (Double Block)	2	13039600	
11	16855	Energy, Power, and Transportation Systems	1	13039300	
12	16870	Automotive Technology II (Double Block)	2	13039700	

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Business, Marketing, and Finance Program of Study

Accounting & Financial Services

This program of study teaches CTE concentrators how to examine, analyze, and interpret financial records. Students will learn the skills necessary to perform financial services, advice, or audit and evaluate statements prepared by others.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
9	16255	Principles of Business, Marketing & Finance	1	13011200	
10	16267	Financial Mathematics*	1	13018000	Math
10	16410	Accounting I	1	13016600	
11	16425	Insurance Operations	1	13016500	
11	16266	Financial Analysis	1	13016800	
11	16411	Accounting II*	1	13016700	Math
12	16295	Practicum in Business Management (Double Block)	2	13012200	
12	16420	Securities and Investments	1	13016400	

Business Management

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
9	16255	Principles of Business, Marketing & Finance	1	13011200	
10	16260	Business Information Management I	1	13011400	
10	16270	Business Law	1	13011700	
11	16275	Business Management	1	13012100	
11	16280	Human Resources Management (One Semester)	0.5	13011900	
11	16290	Global Business (One Semester)	0.5	13011800	
11	16265	Business Information Management II	1	13011500	
12	16300	Statistics & Business Decision Making	1	13016900	
12	16295	Practicum in Business Management (Double Block)	2	13012200	

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Business, Marketing, and Finance Program of Study

Entrepreneurship

This program of study teaches CTE concentrators how to plan, direct, and coordinate the management and operations of public or private sector organizations. Students will learn the skills necessary to formulate policies, manage daily operations, analyze management structures, and plan for the use of materials and human resources.

9	16255	Principles of Business, Marketing & Finance	1	13011200	
10	16790	Entrepreneurship	1	13034400	
11	16275	Business Management	1	13012100	
12	16295	Practicum in Business Management (Double Block)	2	13012200	

Marketing and Sales

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.

9	16255	Principles of Business, Marketing & Finance	1	13011200	
10	16810	Sports & Entertainment Marketing (One Semester)	0.5	13034600	
10	16805	Fashion Marketing (One Semester)	0.5	13034300	
11	16811	Social Media Marketing (One Semester)	0.5	13034650	
11	16795	Advertising (One Semester)	0.5	13034200	
12	16815	Advanced Marketing (Single Block)	2	13034700	
12	16781	Practicum in Marketing (Double Block)	2	13034800	

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Manufacturing Program of Study

Welding (T-STEM/A2E2)

This program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. Students will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
9	16897	Introduction to Welding	1	13032250	
10	16895	Welding I (Double Block)	2	13032300	
11	16896	Welding II (Double Block)	2	13032400	
12	16335	Career Preparation I (Double Block)	2	12701300	

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Hospitality and Tourism Program of Study

Culinary Arts

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
9	16505	Intro to Culinary Arts	1	13022550	
10	16510	Culinary Arts (Double Block)	2	13022600	
11	16517	Advanced Culinary Arts (Double Block)	2	13022650	
12	16053	Food Science*	1	13023000	Science
12	16515	Practicum in Culinary Arts (Double Block)	2	13022700	

BUSINESS AND INDUSTRY ENDORSEMENT

Hospitality and Tourism Program of Study

Lodging and Resort Management

This program of study introduces students to occupations and educational opportunities related to the logistical and operational management of lodging and resorts. This program of study also explores opportunities related to human resources, financial analysis, and marketing.

9	16500	Principles of Hospitality and Tourism	1	13022200	
10	16502	Hotel Management	1	13022300	
10	16297	Travel & Tourism Management	1	13022500	
11	16501	Hospitality Services (Single Block)	2	13022800	
12	16506	Practicum in Hospitality Services (Double Block)	2	13022900	

Travel, Tourism, and Attractions

This program of study introduces students to occupations and educational opportunities related to the marketing or sales of travel and tourism services. This program of study allows students to learn how to plan, direct, and coordinate marketing or business policies and programs, including identifying potential customers and determining demand and promotional strategies for products and services.

9	16500	Principles of Hospitality and Tourism	1	13022200	
10	16297	Travel & Tourism Management	1	13022500	
11	16290	Global Business (One Semester)	0.5	13011800	
11	16810	Sports & Entertainment Marketing (One Semester)	0.5	13034600	
12	16506	Practicum in Hospitality Services (Double Block)	2	13022900	

BUSINESS AND INDUSTRY ENDORSEMENT

Information Technology Program of Study

Information Technology Support and Services (T-STEM/A2E2)

This program of study 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. This program of study may also include exploration into the research, design, or testing of computer or computer-related equipment for commercial, industrial, military, or scientific use.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
9	16640	Principles of Information Technology	1	13027200	
10	16661	Computer Maintenance	1	13027300	
11	16662	Computer Technician Practicum (Double Block)	2	13027500	
12		Practicum in Information Technology (Double Block)	2	13028000	

Networking Systems (T-STEM/A2E2)

This program of study explores the occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study may also include exploration into analyzing science, engineering, and other data processing problems to implement and improve computer systems.

9	16640	Principles of Information Technology	1	13027200	
10	16661	Computer Maintenance	1	13027300	
11	16664	Networking	1	13027400	
12		Practicum in Information Technology (Double Block)	2	13028000	

Web Development (T-STEM/A2E2)

This program of study explores the occupations and educational opportunities associated with designing, creating, and modifying websites. This program of study may also explore integrating websites with other computer applications, and converting written, graphic, audio, and video components to compatible web formats by using software designed to facilitate the creation of web and multimedia content.

9	16640	Principles of Information Technology	1	13027200	
10	16660	Web Technologies	1	13027900	
10	16645	Computer Programming I	1	13027600	
11		Web Design	1	35880820	
12		Practicum in Information Technology (Double Block)	2	13028000	

STEM ENDORSEMENT

STEM Program of Study

Programming and Software Development (T-STEM/A2E2)

This program of study 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 program of study 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
9	13048	Fundamentals of Computer Science	1	03580140	
10	16645	Computer Programming I	1	13027600	
11	16663	AP Computer Science A (Single Block)	2	A3580100	
11	16646	Computer Programming II	1	13027700	
12		Practicum in Information Technology (Double Block)	2	13028000	

Engineering (T-STEM/A2E2)

This program of study 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.

9	16888	Principles of Applied Engineering	1	13036200	
10	16885	Engineering Design & Presentation	1	13036500	
11	16890	Engineering Design & Presentation II (Double Block)	2	13036600	
12	16892	Engineering Design & Problem Solving*	1	13037300	Science
12	16692	Practicum in STEM (Double Block)	2	13037400	

PUBLIC SERVICES ENDORSEMENT

Human Services Program of Study

Family and Community Services

This program of study 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
9	16565	Principles of Human Services	1	13024200	
10	16380	Human Growth & Development	1	13014300	
10	16585	Child Development	1	13024700	
11	16575	Counseling & Mental Health	1	13024600	
11	16568	Family and Community Services	1	13024900	
12	16463	Practicum in Human Services (Double Block)	2	13025000	

Cosmetology

9	16550	Intro to Cosmetology	1	13025100	
10	16555	Cosmetology I/Lab (Triple Block)	3	13025210	
11	16560	Cosmetology II/Lab (Triple Block)	3	13025310	
12	16561	Practicum in Human Services (Cosmetology) (Double Block)	2	13025000	

PUBLIC SERVICES ENDORSEMENT

Education and Training Program of Study

Early Learning

This program of study focuses on early childhood education, which consists of instructing and supporting preschool and early elementary school students in activities that promote social, physical and intellectual growth as well as in basic elements of science, art, music, and literature. This program of study introduces students to tasks necessary for planning, directing, and coordinating activities for young children.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
9	16350	Principles of Education and Training	1	13014200	
10	16585	Child Development	1	13024700	
11	16590	Child Guidance (Single Block)	2	13024800	
12	16360	Practicum in Education & Training (Double Block)	2	13014500	
12	16335	Career Preparation I (Double Block)	2	12701300	

Teaching and Training

This program of study prepares students for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces students to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.

9	16350	Principles of Education and Training	1	13014200	
10	16380	Human Growth & Development	1	13014300	
10	16585	Child Development	1	13024700	
11	16356	Instructional Practices (Double Block)	2	13014400	
12	16360	Practicum in Education & Training (Double Block)	2	13014500	

PUBLIC SERVICES ENDORSEMENT

Law and Public Service Program of Study

Government and Public Administration

This program of study explores the occupations and educational opportunities associated with examining, evaluating, and investigating conformity with laws and regulations. This program of study may also explore the opportunities related to developing comprehensive plans and programs for use of land and physical facilities of jurisdictions, such as towns, cities, counties, and metropolitan areas.

Grade	Course #	Course Title	Credits	PEIMS #	Core Credit Option
9	16910	Principles of Govt & Public Administration	1	13018200	
10	16901	Political Science I	1	13018300	
10	16740	Federal Law Enforcement & Protective Services	1	13029800	
11	16911	Planning & Governance	1	13018700	
11	16902	Political Science II	1	13018400	
12	16912	Public Management and Administration	1	13018600	

Law Enforcement

This program of study 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.

9	16725	Principles of Law, Public Safety, Corrections & Security	1	13029200	
10	16370	Law Enforcement I	1	13029300	
10	16740	Federal Law Enforcement & Protective Services	1	13029800	
11	16735	Correctional Services	1	13029700	
11	16750	Law Enforcement II	1	13029400	
12	16745	Forensic Science*	1	13029500	Science
12	16755	Practicum in Law, PS, Corrections & Security (Double Block)	2	13030100	

PUBLIC SERVICES ENDORSEMENT

Health Science Program of Study

Healthcare Therapeutic - Certified Nurse Aide (T-STEM/A2E2)

This program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study 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
9	16450	Principles of Health Science	1	13020200	
10	16480	Medical Terminology	1	13020300	
10	16465	Anatomy & Physiology*	1	13020600	Science
11	16451	Health Science Theory/Clinical (Double Block)	2	13020410	
12	16466	Practicum in Health Science - Certified Nurse Aide (Double Block)	2	13020500	

Healthcare Therapeutic - Phlebotomy (T-STEM/A2E2)

This program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study 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.

9	16450	Principles of Health Science	1	13020200	
10	16480	Medical Terminology	1	13020300	
10	16465	Anatomy & Physiology*	1	13020600	Science
11	16451	Health Science Theory/Clinical (Double Block)	2	13020410	
12	16460	Practicum in Health Science - Phlebotomy (Double Block)	2	13020500	

Healthcare Therapeutic - Pharmacy Technician (T-STEM/A2E2)

This program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study 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.

9	16450	Principles of Health Science	1	13020200	
10	16480	Medical Terminology	1	13020300	
11	16465	Anatomy & Physiology*	1	13020600	Science
12		Practicum in Health Science - Pharmacy Tech (Double Block)	2	13020500	

Nursing Science (T-STEM/A2E2)

This program of Study 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.

9	16450	Principles of Health Science	1	13020200	
10	16480	Medical Terminology	1	13020300	
11	16465	Anatomy & Physiology*	1	13020600	Science
12	16470	Pathophysiology*	1	13020800	Science

CTE GENERAL ELECTIVE COURSES

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

- **Lifetime Nutrition and Wellness (0.5)**
- **Dollars and Sense (0.5)**
- **Advertising (0.5)**
- **Social Media Marketing (0.5)**
- **Floral Design (1)**
- **Money Matters (1)**
- **Employability Skills (1)**
- **Business Information Management (1)**
- **Business Information Management II (1)**
- **Career Preparation I (2)**
- **Professional Communications**