



**Belton Independent School District
Career & Technical Education
2024-2025**

400 N. Wall Street
Belton, TX 76513
254.215.2000

www.bisd.net

CAREER CLUSTERS + PROGRAMS OF STUDY + COURSE DESCRIPTIONS



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A FOUNDATION FOR OPPORTUNITY

**AGRICULTURE, FOOD, & NATURAL
RESOURCES**



AGRICULTURE, FOOD, & NATURAL RESOURCES

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life, food, water, land, and air. This Career Cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Agricultural Technology & Mechanical Systems

The Agricultural Technology & Mechanical Systems program of study focuses on opportunities related to applying engineering technology and biological science to agriculture problems related to power & machinery, electrification, structures, soil & water use, and processing agricultural products. This program of study includes diagnosing, repairing, or overhauling machinery & vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.

Agricultural Technology & Mechanical Systems Course Pathway

Investigation	◆ Principles of AFNR ◆ Agricultural Mechanics & Technologies
Navigation	◆ Agricultural Structures Design & Fabrication
Preparation	◆ Agricultural Equipment Design & Fabrication
Application	◆ Practicum in AFNR (Ag Tech & Mechanical Systems) ◆ Scientific Research & Design ◆ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Agricultural Technology & Mechanical Systems program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Farmers, Ranchers, & Other Agricultural Managers

Median Wage: \$34,751
Annual Openings: 4,535
10-year Growth: 6%

Farm Equipment Mechanics & Service Technicians

Median Wage: \$45,730
Annual Openings: 430
10-year Growth: 22%

Mobil Heavy Equipment Mechanics

Median Wage: \$52,295
Annual Openings: 2,465
10-year Growth: 19%

WORK-BASED LEARNING

- ◆ Apprenticeship at an equipment production company
- ◆ Intern at a manufacturing facility

EXPANDED LEARNING

- ◆ FFA career, leadership & speaking events
- ◆ Agricultural and related robotics events

INDUSTRY-BASED CERTIFICATIONS

- ◆ AWS D1.1
- ◆ AWS D9.1

POSTSECONDARY LEARNING

Apprenticeship

- ◆ Farm Equipment Mechanic I

Associate Degrees

- ◆ Diesel Mechanics Technology
- ◆ Industrial Mechanics & Maintenance Technology

Bachelor's Degrees

- ◆ Agricultural Engineering
- ◆ Heavy Equipment Maintenance Technology

Master's, Doctoral & Professional Degrees

- ◆ Agricultural Engineering
- ◆ Industrial Technology

Agricultural Technology & Mechanical Systems Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of AFNR* (Level 1)	9-12	None	13000200 27241 1 credit		BHS LBHS
Ag Mechanics & Metal Technologies (Level 2)	9-12	None	13002200 27220 1 credit		BHS LBHS
Ag Structures Design & Fabrication (Level 3)	10-12	Ag Mechanics & Metal Technologies	13002300 27221 1 credit	AWS D1.1 AWS D9.1	BHS LBHS
Ag Equipment Design & Fabrication (Level 4)	11-12	Ag Mechanics & Metal Technologies	13002350 27222 1 credit	AWS D1.1 AWS D9.1	BHS LBHS
Practicum in AFNR* (Ag Tech & Mechanical Systems) (Level 4)	12	2+ courses for 2+ credits in Ag Mech POS, including either Ag Structures Design & Fabrication OR Ag Equipment Design & Fabrication	13002500 47230 (1st time taken) 13002510 47233 (2nd time taken) 2 credits	AWS D1.1 AWS D9.1	BHS LBHS
Scientific Research & Design* (Level 4) (Satisfies a Science Requirement)	12	Biology Chemistry IPC or Physics	13037200 27735 1 credit		BHS LBHS BNT
Career Prep or Ext. Career Prep for POS* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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AGRICULTURE, FOOD, & NATURAL RESOURCES

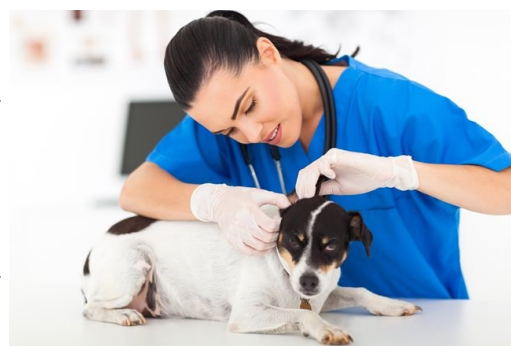
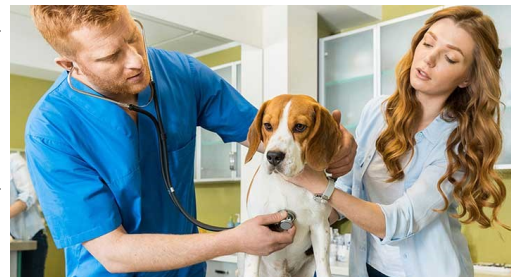
The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life, food, water, land, and air. This Career Cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Animal Science

The Animal Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of animals and other living organisms. This program of study includes applying biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students will research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

Animal Science Course Pathway

Investigation	◆ Principles of AFNR ◆ Small Animal Management ◆ Equine Science
Navigation	◆ Livestock Production ◆ Entrepreneurship I
Preparation	◆ Veterinary Medicine Applications ◆ Advanced Animal Science
Application	◆ Practicum in AFNR (Animal Science) ◆ Scientific Research & Design ◆ Career Preparation for Program of Study



Aligned Advanced Placement Courses:

*This course does not count toward Concentrator/Completer status.

- ◆ AP Biology*

ALIGNED ENDORSEMENT: Successful completion of the Animal Science program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Veterinary Assistant and Laboratory Animal Caretaker

Median Wage: \$28,099
Annual Openings: 1,519
10-year Growth: 40%

Veterinary Technologists and Technicians

Median Wage: \$30,427
Annual Openings: 2,018
10-year Growth: 26%

Veterinarian

Median Wage: \$101,553
Annual Openings: 479
10-year Growth: 33%

WORK-BASED LEARNING

- ◆ Shadow an animal scientist
- ◆ Intern in a veterinary clinic

EXPANDED LEARNING

- ◆ FFA career, leadership & speaking events
- ◆ Agriculture industry seminar

INDUSTRY-BASED CERTIFICATIONS

- ◆ Certified Veterinary Assistant, Level I
- ◆ Elanco Fundamentals of Animal Science
- ◆ Elanco Veterinary Medical Applications

POSTSECONDARY LEARNING

Apprenticeship

- ◆ Reproduction Technician

Associate Degrees

- ◆ Biological & Physical Sciences
- ◆ Entomology

Bachelor's Degrees

- ◆ Biology/Biology Sciences
- ◆ Zoology/Animal Biology

Master's, Doctoral and Professional Degrees

- ◆ Marine Science
- ◆ Biotechnology

Stackable IBCs/Licensures

- ◆ Veterinarian
- ◆ Certified Veterinary Technician

Animal Science Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of AFNR* (Level 1)	9-12	None	13000200 27241 1 credit		BHS LBHS
Small Animal Management (Level 2)	9-12	None	13000400 17220 .5 credit		BHS LBHS
Equine Science (Level 2)	9-12	None	13000500 17230 .5 credit		BHS LBHS
Entrepreneurship I (Level 2)	10-12	None	13034400 27030 1 credit		LBHS
Livestock Production (Level 3)	10-12	None	13000300 27242 1 credit		BHS LBHS
Veterinary Medicine (Level 4)	11-12	Small Animal + Equine OR Livestock Production	13000600 27230 1 credit	Elanco Veterinary Medical Applications	BHS LBHS
Advanced Animal Science (Level 4) (Satisfies a science Requirement)	11-12	Biology Chemistry or IPC Algebra 1 Geometry Either: Principles of AFNR, Small Animal + Equine, or Livestock	13000700 27245 1 credit	Elanco Fundamentals of Animal Science	BHS LBHS
Practicum in AFNR* (Animal Science) (Level 4) (Outside of class clinical hours required)	12	Veterinary Medicine + one additional credit in the Animal Science POS	13002500 47230 (1st time taken) 13002510 47246 (2nd time taken) 2 credits	Certified Veterinary Assistant, Level I	BHS LBHS
Scientific Research & Design* (Level 4) (Satisfies a science requirement)	12	Biology Chemistry IPC or Physics	13037200 27735 1 credit		BHS LBHS BNT
Career Preparation or Ext. Career Preparation for Program of Study* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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AGRICULTURE, FOOD, & NATURAL RESOURCES

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life, food, water, land, and air. This Career Cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Environmental & Natural Resources

The Environmental & Natural Resources program of study focuses on opportunities associated with the research, design, and engineering of plans for prevention and control of environmental hazards. This program of study includes conducting research related to identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or health of the population.

Environmental & Natural Resources Course Pathway

Investigation	◆ Principles of AFNR
Navigation	◆ Wildlife, Fisheries, and Ecology
Preparation	◆ Range Ecology and Management
Application	◆ Practicum in AFNR (Environmental & Natural Resources) ◆ Scientific Research & Design ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ◆ AP Biology*
- ◆ AP Environmental Science*



ALIGNED ENDORSEMENT: Successful completion of the Environmental & Natural Resources program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Forest & Conservation Technician

Median Wage: \$42,573
Annual Openings: 155
10-year Growth: 14%

Environmental Scientists & Specialists

Median Wage: \$76,510
Annual Openings: 587
10-year Growth: 22%

Environmental Engineers

Median Wage: \$104,187
Annual Openings: 280
10-year Growth: 25%

WORK-BASED LEARNING

- ◆ Intern in an environmental services office in local gov't
- ◆ Apprenticeship with a water treatment plant

EXPANDED LEARNING

- ◆ FFA career, leadership & speaking events
- ◆ Agriculture industry seminar

INDUSTRY-BASED CERTIFICATIONS (TBA)

- ◆ Natural Resources Systems Water Operators, Class D
- ◆ Ducks Unlimited Ecology Conservation & Management

POSTSECONDARY LEARNING

Apprenticeship

- ◆ Water Treatment Plant Operator

Associate Degrees

- ◆ Environmental Engineering
- ◆ Water Quality & Wastewater Treatment Management

Bachelor's Degrees

- ◆ Environmental Engineering

Master's, Doctoral and Professional Degrees

- ◆ Biology/Biological Sciences
- ◆ Ecology

Stackable IBCs/Licensures

- ◆ Pesticide Dealers License



Environmental & Natural Resources Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD COODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of AFNR* (Level 1)	9-12	None	13000200 27241 1 credit		BHS LBHS
Wildlife, Fisheries, and Ecology (Level 2)	9-12		13001500 27297 1 credit		BHS LBHS
Range Ecology and Management (Level 3)	10-12		13001600 27298 1 credit		BHS LBHS
Practicum in AFNR* (Environmental & Natural Resources) (Level 4)	12	2+ courses for 2+ credits in aligned POS	13002500 47230 (1st time taken) 13002510 47247 (2nd time taken) 2 credits	Natural Resource Systems Water Operators, Class D (TBA) Ducks Unlimited Ecology Conservation & Management (TBA)	BHS LBHS
Scientific Research & Design* (Level 4) (Satisfies a Science requirement)	12	Biology Chemistry IPC or Physics	13037200 27735 1 credit		BHS LBHS BNT
Career Preparation for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Extended Career Preparation for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.





AGRICULTURE, FOOD, & NATURAL RESOURCES

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life, food, water, land, and air. This Career Cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Plant Science

The Plant Science program of study focuses on opportunities associated with the science, research, and business of plants and other living organisms. This program of study includes the application of biology and life science to the real-world life processes of plants and vegetation, either in laboratories or in the field.

Plant Science Course Pathway

Investigation	◆ Principles of AFNR ◆ Landscape Design & Management ◆ Turf Grass Management
Navigation	◆ Greenhouse Operations & Production ◆ Floral Design ◆ Entrepreneurship I
Preparation	◆ Advanced Floral Design ◆ Advanced Plant & Soil Science
Application	◆ Practicum in AFNR (Plant Science) ◆ Scientific Research & Design ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ◆ AP Biology*
- ◆ AP Environmental Science*
- ◆ AP Chemistry*



ALIGNED ENDORSEMENT: Successful completion of the Plant Science program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Pesticide Handlers, Sprayers, and Applicators, Vegetation

Median Wage: \$39,355
Annual Openings: 223
10-year Growth: 17%

Biological Technicians

Median Wage: \$49,566
Annual Openings: 850
10-year Growth: 22%

Soil and Plant Scientists

Median Wage: \$71,058
Annual Openings: 119
10-year Growth: 31%

WORK-BASED LEARNING

- ◆ Internship at a landscaping company
- ◆ Internship with a biological technician at an agricultural research company

EXPANDED LEARNING

- ◆ FFA career, leadership & speaking events
- ◆ Industry related competitions
- ◆ Agriculture industry seminar

INDUSTRY-BASED CERTIFICATIONS (TBA)

- ◆ TX State Florist's Association Knowledge Based Floral Cert.
- ◆ BASF Plant Science Cert (TBA)

POSTSECONDARY LEARNING

Apprenticeship

- ◆ Horticulturist

Associate Degrees

- ◆ Biology/Biological Sciences
- ◆ Biological & Physical Sciences

Bachelor's Degrees

- ◆ Botany/Plant Biology
- ◆ Plant Phytopathology

Master's, Doctoral and Professional Degrees

- ◆ Biochemistry
- ◆ Botany/Plant Biology

Stackable IBCs/Licensures

- ◆ Nursery Floral License
- ◆ Horticulturist Certification



Plant Science Course Details

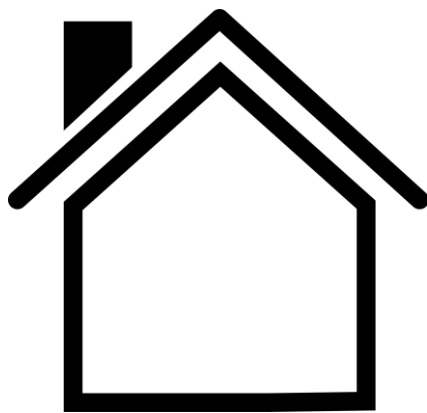
COURSE	GRADE LEVEL	PRE– and CO– REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of AFNR* (Level 1)	9-12	None	13000200 27241 1 credit		BHS LBHS
Landscape Design & Management (Level 2)	9-12	None	13001900 17265 .5 credit		BHS LBHS
Turf Grass Management (Level 2)	9-12	None	13001950 17266 .5 credit		BHS LBHS
Greenhouse Operations & Prod. (Level 2)	10-12	None	13002050 27266 1 credit	BASF Plant Science Certification (TBA)	BHS LBHS
Entrepreneurship I (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Floral Design (Level 3) (Satisfies a Fine Arts requirement)	10-12	None	13001800 27260 1 credit	TX State Florist's Assoc. Knowledge Based Floral Cert.	BHS LBHS
Adv Floral Design (Level 4)	11-12	Floral Design	N1300270 27262 1 credit		BHS LBHS
Adv Plant & Soil (Level 4) (Satisfies a science requirement)	11-12	Biology Chemistry or IPC	13002100 27225 1 credit		BHS LBHS
Practicum in AFNR (Plant Science) (Level 4)	12	2+ courses for 2+ credits in aligned POS	13002500 47230 (1st time taken) 13002510 47248 (2nd time taken) 2 credits		BHS LBHS
Scientific Research & Design* (Level 4) (Satisfies a science requirement)	12	Biology Chemistry IPC or Physics	13037200 27735 1 credit		BHS LBHS BNT
Career Prep or Ext. Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

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A FOUNDATION FOR OPPORTUNITY
ARCHITECTURE & CONSTRUCTION



ARCHITECTURE & CONSTRUCTION

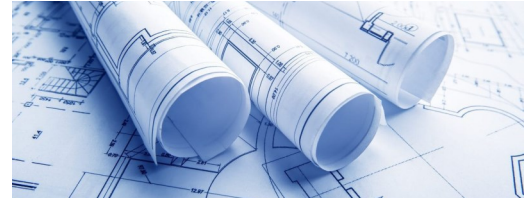
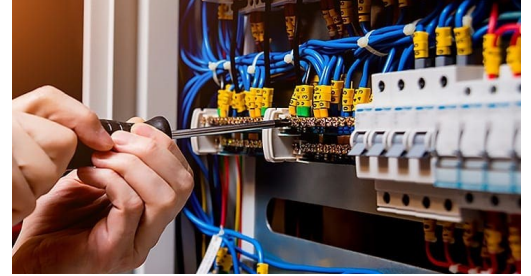
The Architecture & Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. This Career Cluster provides an overview of the various fields in the construction industry including architecture, interior design, construction management, carpentry, electrical, plumbing, HVAC, and masonry.

Carpentry

The Carpentry program of study focuses on opportunities related to constructing, installing, and repairing structures and fixtures made of wood including frameworks, partitions, joists, studding, rafters, and stairways. The program of study includes installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Carpentry Course Pathway

Investigation	◆ Principles of Construction
Navigation	◆ Construction Technology I ◆ Entrepreneurship I
Preparation	◆ Construction Technology II
Application	◆ Practicum in Construction Technology ◆ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Carpentry program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Carpenters

Median Wage: \$42,624
Annual Openings: 8,971
10-year Growth: 14%

Drywall & Ceiling Tile Installers

Median Wage: \$44,323
Annual Openings: 1,009
10-year Growth: 5%

Construction Managers

Median Wage: \$78,180
Annual Openings: 6,615
10-year Growth: 25%

WORK-BASED LEARNING

- ◆ Internship with a carpenter
- ◆ Pre-apprenticeship

EXPANDED LEARNING

- ◆ Job Shadowing
- ◆ SkillsUSA participation & competition

INDUSTRY-BASED CERTIFICATIONS

- ◆ NCCER Core
- ◆ NCCER Carpentry Level 1

POSTSECONDARY LEARNING

Apprenticeship

- ◆ Carpenter

Associate Degrees

- ◆ Construction Management
- ◆ Construction Engineering
- ◆ Carpentry

Bachelor's Degrees

- ◆ Construction Engineering
- ◆ Carpentry
- ◆ Project &/or Site Management

Master's, Doctoral & Professional Degrees

- ◆ Construction Engineering
- ◆ Const. & Project Management



Carpentry Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Construction* (Level 1)	9-12	None	13004220 27601 1 credit	NCCER Core	BHS LBHS
Construction Technology I (Level 2)	10-12	Principles of Construction	13005100 47607 2 credits	NCCER Core	BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Construction Technology II (Level 3)	11-12	Construction Technology I	13005200 47615 2 credits	NCCER Carpentry Level 1	BHS LBHS
Practicum in Construction Technology (Level 4)	12	Construction Technology II	13005250 47616 2 credits	NCCER Carpentry Level 1	BHS LBHS
Career Preparation for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Extended Career Preparation for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

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ARCHITECTURE & CONSTRUCTION

The Architecture & Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. This Career Cluster provides an overview of the various fields in the construction industry including architecture, interior design, construction management, carpentry, electrical, plumbing, HVAC, and masonry.

Construction Management & Inspection

The Construction Management & Inspection program of study focuses on opportunities related to producing cost estimates for construction projects to support bidding on or determining the price of products or services. This program of study includes inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.

Construction Management & Inspection Course Pathway

Investigation	◆ Principles of Construction
Navigation	◆ Construction Management I
Preparation	◆ Construction Management II
Application	◆ Practicum in Construction Management ◆ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Construction Management & Inspection program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

First-Line Trades Supervisors

Median Wage: \$60,948
Annual Openings: 10,107
10-year Growth: 12%

Construction & Building Inspectors

Median Wage: \$61,387
Annual Openings: 2,238
10-year Growth: 8%

Construction Managers

Median Wage: \$78,180
Annual Openings: 6,615
10-year Growth: 25%

WORK-BASED LEARNING

- ◆ Intern with or shadow a construction manager
- ◆ Pre-apprenticeship

EXPANDED LEARNING

- ◆ Job Shadow a building inspector or cost estimator
- ◆ SkillsUSA participation & competition

INDUSTRY-BASED CERTIFICATIONS

- ◆ NCCER Core

POSTSECONDARY LEARNING

Apprenticeship

- ◆ Building Inspector

Associate Degrees

- ◆ Construction Management
- ◆ Const. Engineering Tech.
- ◆ Bldg./Const. Site Management

Bachelor's Degrees

- ◆ Construction Engineering
- ◆ Construction Management
- ◆ Bldg./Const. Site Management
- ◆ Bldg./Property Maintenance

Master's, Doctoral & Professional Degrees

- ◆ Const. Engineering &/or Mgmt.
- ◆ Project Management



Construction Management & Inspection Course Details

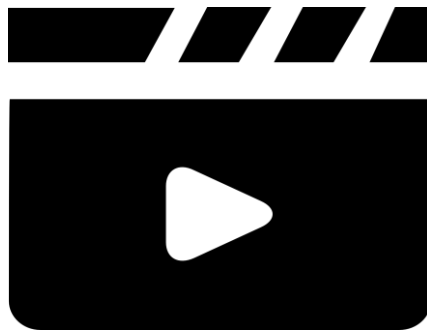
COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Construction* (Level 1)	9-12	None	13004220 27601 1 credit		BHS LBHS
Construction Management I (Level 2)	10-12	Principles of Construction	13004900 47626 2 credits	NCCER Core	BHS LBHS
Construction Management II (Level 3)	11-12	Construction Management I	13005000 47627 2 credits		BHS LBHS
Practicum in Construction Management (Level 4)	12	Construction Management II	13006200 47625 2 credits		BHS LBHS
Career Preparation for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Extended Career Preparation for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

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A FOUNDATION FOR OPPORTUNITY
**ARTS, A/V TECHNOLOGY &
COMMUNICATIONS**



ARTS, A/V TECHNOLOGY & COMMUNICATIONS

The Arts, A/V Technology & Communications Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual & performing arts & design, journalism, and entertainment services. Careers in the Arts, A/V Technology & Communications Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

Digital Communications

The Digital Communications program of study focuses on opportunities related to the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. The program of study includes operating machines and equipment such as microphones, sound speakers, video screens and monitors, projectors, sound and mixing boards, and related electronic equipment to record sound and images.

Digital Communications Course Pathway

Investigation	- Principles of Arts, A/V Technology & Communications - Professional Communications
Navigation	- A/V Production I - Digital Audio Technology I - Entrepreneurship I
Preparation	- A/V Production II + Lab - Digital Audio Technology II
Application	- Practicum in A/V Production - Practicum in Digital Audio Technology - Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Digital Communications program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Audio and Video Technicians

Median Wage: \$43,161
Annual Openings: 752
10-year Growth: 27%

Camera Operators, Television, Video and Film

Median Wage: \$49,444
Annual Openings: 264
10-year Growth: 24%

Producers and Directors

Median Wage: \$57,654
Annual Openings: 1,232
10-year Growth: 25%

WORK-BASED LEARNING

- Shadow a sound designer or broadcast technician
- Intern with a technical director

EXPANDED LEARNING

- Student Television Network participation
- Podcast creation
- SkillsUSA or TSA participation

INDUSTRY-BASED CERTIFICATIONS

- Adobe Premiere Pro
- Adobe Photoshop
- Adobe InDesign

POSTSECONDARY LEARNING

Apprenticeship

- Light Technician

Associate Degrees

- Commercial & Advertising Art
- Animation, & Special Effects

Bachelor's Degrees

- Cinematography Production
- Recording Arts Technology

Master's, Doctoral & Pro. Degrees

- Animation, Video Graphics & Special Effects
- Communications Technology

Stackable IBCs/Licensures

- CompTIA Digital Media Entertainment Professional

Digital Communications Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Arts, A/V Technology & Communications* (Level 1)	9-12	None	13008200 27349 1 credit		BHS LBHS BNT
Professional Communications (Level 1)	9-12	None	13009900 17282 .5 credit		BHS LBHS
A/V Production I (Level 2)	10-12	Recommended pre- or co-requisite: Principles of Arts, A/V Technology & Communications	13008500 27350 1 credit		BHS LBHS BNT
Digital Audio Technology I (Level 2)	10-12	Recommended pre- or co-requisite: Principles of Arts, A/V Technology & Communications	13009950 27395 1 credit		BHS LBHS
Entrepreneurship I (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
A/V Prod. II + Lab (Level 3) (Outside of class work required) (2 credit course scheduled for 1 period)	11-12	A/V Production I	13008610 27356 2 credits	Adobe Premier Pro Adobe Photoshop Adobe InDesign	BHS LBHS BNT
Digital Audio Tech II (Level 3)	11-12	Digital Audio Tech I	13009960 27396 1 credit	Adobe Premier Pro Adobe Photoshop Adobe InDesign	BHS LBHS
Practicum in A/V Production (Level 4)	12	A/V Production II	13008700 47360 2 credits	Adobe Premier Pro Adobe Photoshop Adobe InDesign	BHS LBHS BNT
Practicum in Digital Audio Tech. (Level 4)	12	Digital Audio Tech II	N1300996 47349 2 credits	Adobe Premier Pro Adobe Photoshop Adobe InDesign	BHS LBHS
Career Prep or Ext. Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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ARTS, A/V TECHNOLOGY & COMMUNICATIONS

The Arts, A/V Technology & Communications Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual & performing arts/design, journalism, and entertainment services. Careers in the Arts, A/V Technology & Communications Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.

Graphic Design & Interactive Media

The Graphic Design & Interactive Media program focuses on opportunities related to designing graphics to meet specific commercial photography needs, such as packaging, displays, or logos. The program of study includes designing clothing and accessories, 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.

Graphic Design & Interactive Media Course Pathway

Investigation	◆ Principles of Arts, A/V Tech. & Comm. ◆ Video Game Design ◆ Digital Media
Navigation	◆ Animation I ◆ Commercial Photography I ◆ Graphic Design & Illustration I ◆ Entrepreneurship I
Preparation	◆ Animation II ◆ Commercial Photography II + Lab ◆ Graphic Design & Illustration II
Application	◆ Practicum in Animation ◆ Practicum in Commercial Photography ◆ Practicum in Graphic Design ◆ Career Prep for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Graphic Design & Interactive Media program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Graphic Designers

Median Wage: \$46,378
Annual Openings: 2,513
10-year Growth: 27%

Art Directors

Median Wage: \$58,241
Annual Openings: 888
10-year Growth: 34%

Web and Digital Interface Designers

Median Wage: \$67,379
Annual Openings: 1,119
10-year Growth: 57%

WORK-BASED LEARNING

- ◆ Shadow an art director
- ◆ Intern in a marketing & communications department

EXPANDED LEARNING

- ◆ Student Television Network participation
- ◆ SkillsUSA or TSA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ Adobe After Effects
- ◆ Adobe Photoshop
- ◆ Adobe Illustrator
- ◆ Adobe InDesign
- ◆ Adobe Premiere Pro

POSTSECONDARY LEARNING

Apprenticeship

- ◆ Graphic Designer

Associate Degrees

- ◆ Graphic Designer/Digital Arts

Bachelor's Degrees

- ◆ Web, Digital/Multimedia & Information Resources Design
- ◆ Design & Visual Communications

Master's, Doctoral & Prof. Degrees

- ◆ Game & Interactive Media Design
- ◆ Animation & Special Effects

Stackable IBCs/Licensures

- ◆ Certified Textile Designer (CTD)

Graphic Design & Interactive Media Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Arts, A/V Technology & Communications * (Level 1)	9-12	None	13008200 27349 1 credit		BHS LBHS BNT
Video Game Design (Level 1)	9-12	None	13009970 27346 1 credit		BNT
Digital Media* (Level 1)	9-12	None	13027800 27340 1 credit		BHS LBHS
Animation I (Level 2)	10-12	Recommended pre- or co-requisite: Principles of Arts, A/V Technology & Communications	13008300 27343 1 credit		BNT
Commercial Photography I (Level 2)	10-12	Recommended pre- or co-requisite: Principles of Arts, A/V Technology & Communications	13009100 27380 1 credit		BHS LBHS
Graphic Design & Illustration I (Level 2)	10-12	Recommended pre- or co-requisite: Principles of Arts, A/V Technology & Communications	13008800 27370 1 credit	Adobe Illustrator Adobe InDesign Adobe Photoshop	BHS LBHS BNT
Entrepreneurship I (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Animation II (Level 3)	11-12	Animation I	13008400 27344 1 credit	Adobe After Effects Adobe Photoshop Adobe Premiere Pro	BNT
Commercial Photography II + Lab (Level 3) (Outside of class work required) (2 credit course scheduled for 1 period)	11-12	Commercial Photography I	13009210 27382 2 credits	Adobe Photoshop	BHS LBHS

*Course is included in additional programs of study.

Course details continued on the following page.



Graphic Design & Interactive Media Course Details Continued

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Practicum in Animation (Level 4)	12	Animation II	13008450 47365 2 credits	Adobe After Effects Adobe Photoshop Adobe Premiere Pro	BNT
Practicum in Commercial Photography (Level 4)	12	Commercial Photography II	13009250 47385 2 credits	Adobe Photoshop	BHS LBHS
Practicum in Graphic Design (Level 4)	12	Graphic Design II	13009000 47370 2 credits	Adobe Illustrator Adobe InDesign Adobe Photoshop	BHS LBHS
Career Preparation for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS BNT
Extended Career Preparation for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS BNT

*Course is included in additional programs of study.

Course details continued on the previous page.





A FOUNDATION FOR OPPORTUNITY
BUSINESS, MARKETING, & FINANCE

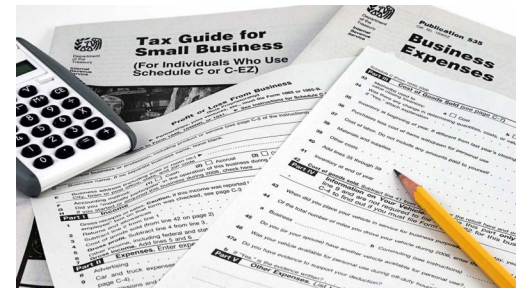


BUSINESS, MARKETING, & FINANCE

The Business, Marketing, & Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Accounting & Financial Services

The Accounting & Financial Services program of study focuses on occupational and educational opportunities associated with examining, analyzing, and interpreting financial records. It includes exploration of financial services, preparing financial statements, auditing financial statements prepared by others, and interpreting accounting records. This program of study also introduces students to mathematical modeling tools.



Accounting & Financial Services Course Pathway

Investigation	- Principles of Business, Marketing & Finance - Business Information Management I
Navigation	- Money Matters - Accounting I - Entrepreneurship I
Preparation	- Accounting II - Financial Analysis
Application	- Practicum in Business Management - Career Preparation for Program of Study

ALIGNED ENDORSEMENT: Successful completion of the Accounting & Financial Services program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Tax Preparers

Median Wage: \$57,912
Annual Openings: 1,955
10-year Growth: 20%

Accountants and Auditors

Median Wage: \$77,438
Annual Openings: 14,836
10-year Growth: 23%

Personal Financial Advisors

Median Wage: \$81,453
Annual Openings: 3,149
10-year Growth: 39%

WORK-BASED LEARNING

- ◆ Internship or job placement with a CPA
- ◆ Shadow a financial advisor

EXPANDED LEARNING

- ◆ BPA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ Volunteer Income Tax Assistant/ Tax Counseling Certification: Basic (TBA)
- ◆ Intuit Quickbooks (TBA)
- ◆ MB-920: Microsoft Dynamics 365 Fundamentals Finance & Operations Apps (TBA)
- ◆ MOS: Microsoft Excel Expert (Excel 2019)

POSTSECONDARY LEARNING

Associate Degrees

- ◆ Accounting
- ◆ Bookkeeping

Bachelor's Degrees

- ◆ Accounting
- ◆ Banking & Financial Support

Master's, Doctoral and Professional Degrees

- ◆ Business Admin. & Mgmt.
- ◆ Finance

Stackable IBCs/Licensures

- ◆ Project Mgmt. Professional
- ◆ Property Tax Consultants Service Contract Providers

Accounting & Financial Services Course Details

COURSE	GRADE LEVEL	PRE– and CO– REQUISITES	PEIMS CODE BSD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Business, Marketing, & Finance* (Level 1)	9-12	None	13011200 27021 1 credit		BHS LBHS
Business Information Mgmt. I* (Level 2)	9-12	None	13011400 27000 1 credit	Volunteer Income Tax Assistant/Tax Counseling Certification: Basic (TBA)	BHS LBHS
Money Matters (Level 1)	10-12	Recommended pre– or co-requisite: Principles of BM&F OR BIM I	13016200 27025 1 credit		BHS LBHS
Accounting I (Level 2)	10-12	Recommended pre– or co-requisite: Principles of BM&F OR BIM I	13016600 27010 1 credit	Volunteer Income Tax Assistant/Tax Counseling Certification: Basic (TBA) MOS: Microsoft Excel Expert (Excel 2019)	BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Accounting II (Level 3) (Satisfies a math requirement)	11-12	Accounting I	13016700 27015 1 credit	Volunteer Income Tax Assistant/Tax Counseling Certification: Basic (TBA) Intuit Quickbooks (TBA)	BHS LBHS
Financial Analysis (Level 3)	11-12	Accounting I	13016800 27014 1 credit	Volunteer Income Tax Assistant/Tax Counseling Certification: Basic (TBA) MOS: Microsoft Excel Expert (2019) MB-920: Microsoft Dynamics 365 Fundamentals Finance & Operations Apps (TBA)	BHS LBHS
Practicum in Business Mgmt.* (Level 4)	12	2+ courses for 2+ credits in aligned POS	13012200 47020 2 credits	Volunteer Income Tax Assistant/Tax Counseling Certification: Basic (TBA)	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Extended Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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BUSINESS, MARKETING, & FINANCE

The Business, Marketing, & Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Business Management

The Business Management program of study focuses on occupational and educational opportunities associated with planning, directing, and coordinating the administrative services and operations of an organization. It includes formulating policies, managing daily operations, and allocating the use of materials and human resources. This program of study also introduces students to mathematical modeling tools and organizational evaluation methods.

Business Management Course Pathway

Investigation	- Principles of Business, Marketing & Finance - Business Information Management I
Navigation	- Business Information Management II - Business Management - Entrepreneurship I
Preparation	Statistics & Business Decision Making
Application	- Practicum in Business Management - Career Preparation for Program of Study



Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- AP Statistics*
- AP Microeconomics*

ALIGNED ENDORSEMENT: Successful completion of the Business Management program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

First-Line Office Supervisor and Administrative Support

Median Wage: \$59,721
Annual Openings: 19,876
10-year Growth: 11%

Human Resources Specialists

Median Wage: \$61,617
Annual Openings: 8,637
10-year Growth: 25%

General & Operations Managers

Median Wage: \$82,918
Annual Openings: 41,020
10-year Growth: 19%

WORK-BASED LEARNING

- Internship in HR department
- Job shadow a COO

EXPANDED LEARNING

- BPA participation

INDUSTRY-BASED CERTIFICATIONS

- MB-920: Microsoft Dynamics 365 Fundamentals Finance & Operations Apps (TBA)
- MOS: Microsoft Word Expert (Word 2019)
- Customer Service & Sales (TBA)
- Student Social Media Mktg.

POSTSECONDARY LEARNING

Associate Degrees

- Business Admin. & Mgmt.
- Human Resources Mgmt.

Bachelor's Degrees

- Business Analytics
- Accounting & Business/Mgmt.

Master's, Doctoral and Professional Degrees

- Business Admin. & Mgmt.
- Organizational Leadership

Stackable IBCs/Licensures

- Professional Certificate in Team Leadership
- Property Tax Professionals



Business Management Course Details

COURSE	GRADE LEVEL	PRE– and CO–REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Business, Mktg, & Finance* (Level 1)	9-12	None	13011200 27021 1 credit		BHS LBHS
Business Info Mgmt. I* (Level 2)	9-12	None	13011400 27000 1 credit		BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Business Information Management II (Level 2)	10-12	Business Information Management I	13011500 27005 1 credit	MB-920: Microsoft Dynamics 365 Fundamentals Finance & Operations (TBA) MOS Microsoft Word Expert (Word 2019) Customer Service & Sales (TBA) Student Social Media Marketing	BHS LBHS
Business Management (Level 3)	10-12	Recommended pre– or co– requisite: Principles of Business, Marketing, & Finance or BIM 1	13012100 27032 1 credit	See above	BHS LBHS
Statistics & Business Decision Making* (Level 4) (Satisfies a math requirement)	11-12	Algebra II	13016900 27031 1 credit	See above	BHS LBHS
Practicum in Business Mgmt.* (Level 4)	12	2+ courses for 2+ credits in aligned POS	13012200 47020 2 credit	See above	BHS LBHS
Career Prep or Ext. Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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BUSINESS, MARKETING, & FINANCE

The Business, Marketing, & Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Entrepreneurship

The Entrepreneurship program of study focuses on occupational and educational opportunities associated with planning, launching, directing, and coordinating public or private sector ventures. This program of study includes formulating policies, launching businesses or organizations, managing daily operations, analyzing management structures, and planning for the use of materials and human resources.



Entrepreneurship Course Pathway

Investigation	◆ Principles of Business, Marketing & Finance ◆ Business Information Management I
Navigation	◆ Entrepreneurship I
Preparation	◆ Entrepreneurship II ◆ Statistics & Business Decision Making
Application	◆ Practicum in Business Management ◆ CTE Project-Based Capstone ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ◆ AP Statistics*



ALIGNED ENDORSEMENT: Successful completion of the Entrepreneurship program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

General & Operations Managers

Median Wage: \$82,918
Annual Openings: 41,020
10-year Growth: 19%

Management Analysts

Median Wage: \$87,015
Annual Openings: 8,653
10-year Growth: 38%

Chief Executives

Median Wage: \$165,828
Annual Openings: 1,703
10-year Growth: 33%

WORK-BASED LEARNING

- ◆ Business incubator internship
- ◆ School-based enterprise launch participation

EXPANDED LEARNING

- ◆ BPA participation
- ◆ Job shadow an entrepreneur

INDUSTRY-BASED CERTIFICATIONS

- ◆ Student Social Media Mktg.
- ◆ Customer Service & Sales (TBA)
- ◆ Entrepreneurship & Small Business

POSTSECONDARY LEARNING

Associate Degrees

- ◆ Operations Mgmt. & Supervision
- ◆ Organizational Leadership

Bachelor's Degrees

- ◆ Business Admin. & Mgmt.
- ◆ Public Administration

Master's, Doctoral and Professional Degrees

- ◆ Business Administration
- ◆ Public Administration

Stackable IBCs/Licensures

- ◆ Salesforce
- ◆ Service Contract Provider



Entrepreneurship Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Business, Marketing, & Finance* (Level 1)	9-12	None	13011200 27021 1 credit		BHS LBHS
Business Information Mgmt. I* (Level 2)	9-12	None	13011400 27000 1 credit		BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Entrepreneurship II (Level 3)	11-12	Entrepreneurship I	N1303423 27037 1 credit	Stukent Social Media Marketing Customer Service & Sales (TBA) Entrepreneurship & Small Business	LBHS
Statistics & Business Decision Making* (Level 4) (Satisfies a math requirement)	11-12	Algebra II	13016900 27031 1 credit	Stukent Social Media Marketing Customer Service & Sales (TBA) Entrepreneurship & Small Business	BHS LBHS
CTE Project-Based Capstone (Level 4)	12	3+ courses for 3+ Credits (with level 2 or higher course) in aligned POS (sans Career Prep)	12701101 27044 1 credit	Stukent Social Media Marketing Customer Service & Sales (TBA) Entrepreneurship & Small Business	LBHS
Practicum in Business Mgmt.* (Level 4)	12	2+ courses for 2+ credits in aligned POS	13012200 47020 2 credits	Stukent Social Media Marketing Customer Service & Sales (TBA) Entrepreneurship & Small Business	BHS LBHS
Career Prep or Ext. Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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BUSINESS, MARKETING, & FINANCE

The Business, Marketing, & Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

Marketing & Sales

The Marketing & Sales program of study focuses on occupational and educational opportunities associated with collecting information to estimate potential sales of a product or service and create campaigns to market or distribute goods and services. It includes applying data related to customer demographics, preferences, needs, and buying habits.

Marketing & Sales Course Pathway

Investigation	◆ Principles of Business, Marketing & Finance ◆ Digital Media
Navigation	◆ Virtual Business ◆ Sports & Entertainment Marketing ◆ Social Media Marketing ◆ Advertising ◆ Entrepreneurship I
Preparation	◆ Statistics & Business Decision Making
Application	◆ Advanced Marketing ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ◆ AP Statistics*



ALIGNED ENDORSEMENT: Successful completion of the Marketing & Sales program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Retail Salespersons

Median Wage: \$27,145
Annual Openings: 59,111
10-year Growth: 14%

Buyer & Purchasing Agents

Median Wage: \$62,738
Annual Openings: 4,720
10-year Growth: 9%

Sales Managers

Median Wage: \$124,521
Annual Openings: 5,233
10-year Growth: 21%

WORK-BASED LEARNING

- ◆ Internship at a marketing, advertising, sales, or retail company
- ◆ Job shadow a pharmaceutical sales representative

EXPANDED LEARNING

- ◆ BPA participation
- ◆ Job shadow an account representative

INDUSTRY-BASED CERTIFICATIONS

- ◆ Stukent Social Media Marketing
- ◆ Customer Service & Sales (TBA)

POSTSECONDARY LEARNING

Associate Degrees

- ◆ Marketing/Marketing Mgmt.
- ◆ Retail Management

Bachelor's Degrees

- ◆ Business Administration
- ◆ Marketing Management
- ◆ Fashion Merchandising

Master's, Doctoral and Professional Degrees

- ◆ Business Administration
- ◆ Applied Economics
- ◆ Business Analytics

Stackable IBCs/Licensures

- ◆ Salesforce
- ◆ Service Contract Provider



Marketing & Sales Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Business, Marketing, & Finance* (Level 1)	9-12	None	13011200 27021 1 credit		BHS LBHS
Digital Media* (Level 1)	9-12	None	13027800 27340 1 credit		BHS LBHS
Virtual Business (Level 2)	10-12	None	13012000 17024 .5 credit		BHS LBHS
Sports & Entertainment Mktg. (Level 2)	10-12	Recommended pre-requisite: Prin. of Business, Marketing & Finance OR Digital Media	13034600 17023 .5 credit	Stukent Social Media Marketing Customer Service & Sales (TBA)	BHS LBHS
Entrepreneurship I (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Social Media Mktg. (Level 3)	10-12	Recommended pre-requisite: Prin. of Business, Marketing & Finance OR Digital Media	13034650 17025 .5 credit	Stukent Social Media Marketing Customer Service & Sales (TBA)	BHS LBHS
Advertising (Level 3)	10-12	Recommended pre-requisite: Prin. of Business, Marketing & Finance OR Digital Media	13034200 17030 .5 credit	Stukent Social Media Marketing Customer Service & Sales (TBA)	BHS LBHS
Statistics & Business Decision Making* (Level 4) (Satisfies a math requirement)	11-12	Algebra II	13016900 27031 1 credit	Stukent Social Media Marketing Customer Service & Sales (TBA)	BHS LBHS
Advanced Marketing (Level 4)	11-12	1+course for 1+ credit in the Marketing & Sales program of study	13034700 47030 2 credit	Stukent Social Media Marketing Customer Service & Sales (TBA)	BHS LBHS
Career Prep or Ext. Career Prep for POS* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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EDUCATION & TRAINING



EDUCATION & TRAINING

The Education & Training Career Cluster focuses on planning, managing, and providing educational and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education & Training Career Cluster.

Teaching & Training

The Teaching & Learning program of study focuses on opportunities associated with careers related to teaching, instructing, and creating instructional and enrichment materials. The program of study includes recognizing a variety of student groups and their corresponding needs, identifying processes for developing curriculum and coordinating educational content, and coaching groups and individuals.

Teaching & Training Course Pathway

Investigation	◆ Principles of Education & Training ◆ Principles of Human Services
Navigation	◆ Child Development
Preparation	◆ Instructional Practices
Application	◆ Practicum in Education & Training ◆ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Teaching & Training program of study fulfills the requirements of the Public Service endorsement.

ALIGNED OCCUPATIONS

Teaching Assistants, Except Postsecondary

Median Wage: \$23,635
Annual Openings: 13,604
10-year Growth: 18%

Secondary School Teachers, Except Special Education & CTE

Median Wage: \$61,035
Annual Openings: 9,383
10-year Growth: 16%

Education Administrator, K-12

Median Wage: \$80,651
Annual Openings: 3,042
10-year Growth: 16%

WORK-BASED LEARNING

- ◆ Camp counselor
- ◆ Mentor
- ◆ Tutor

EXPANDED LEARNING

- ◆ TAFE or FCCLA participation
- ◆ Job shadow

INDUSTRY-BASED CERTIFICATIONS

- ◆ Educational Aide I

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Teacher Apprentice

Associate Degrees

- ◆ Adult & Continuing Education
- ◆ Educational/Instructional Tech

Bachelor's Degrees

- ◆ Elementary Education
- ◆ Secondary Education

Master's, Doctoral and Professional Degrees

- ◆ Education Leadership & Administration
- ◆ Curriculum & Instruction

Stackable IBCs/Licensures

- ◆ Generalists, Grades EC—4



Teaching & Training Course Details

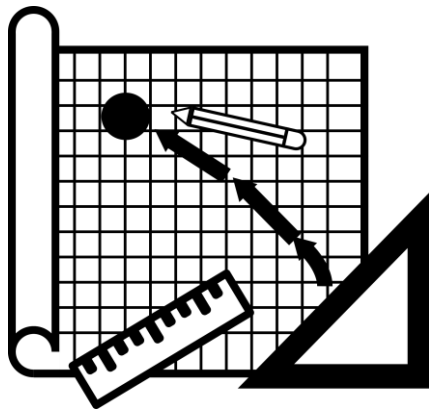
COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Education & Training (Level 1)	9-12	None	13014200 27506 1 credit		BHS LBHS
Principles of Human Services* (Level 1)	9-12	None	13024200 27501 1 credit		BHS LBHS
Child Development* (Level 2)	10-12	Recommend pre- or co- requisite: Principles of Education & Training OR Principles of Human Services	13024700 27570 1 credit		BHS LBHS
Instructional Practices (Level 3)	11-12	Child Development	13014400 47560 2 credits	Educational Aide I	BHS LBHS
Practicum in Education & Training (Level 4)	12	Instructional Practices	13014500 47565 2 credits	Educational Aide I	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.

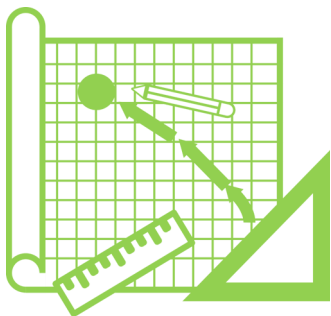


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A FOUNDATION FOR OPPORTUNITY
ENGINEERING



ENGINEERING

The Engineering Career Cluster focuses on the planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles.

Drone (Unmanned Vehicle)

The Drone (Unmanned Vehicle) regional program of study focuses on opportunities related to operating or designing an unmanned aircraft using a ground-based controller. This program of study includes understanding and designing systems of communications between the controller and the aircraft to ensure compliance with federal aviation safety regulations.

Drone (Unmanned Vehicle) Course Pathway

Investigation	♦ Robotics I
Navigation	♦ Robotics II ♦ Engineering Science ♦ Digital Electronics
Preparation	♦ Introduction to Unmanned Aerial Vehicles (UAV)
Application	♦ Scientific Research & Design ♦ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Drone (Unmanned Vehicle) regional program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Aerospace Engineering & Operations Technicians

Median Wage: \$61,609
Annual Openings: 169
10-year Growth: 14%

Avionics Technicians

Median Wage: \$69,347
Annual Openings: 293
10-year Growth: 10%

WORK-BASED LEARNING

- ♦ Internship at public service, engineering, construction, or transportation firm
- ♦ Drone operations at a work site

EXPANDED LEARNING

- ♦ SkillsUSA participation
- ♦ Aerial drone competition participation

INDUSTRY-BASED CERTIFICATIONS

- ♦ FAA Part 107 Remote Drone Pilot

POSTSECONDARY LEARNING

Associate Degrees

- ♦ Airline/Commercial/Prof. Pilot and Flight Crew
- ♦ Manu. Engineering Technology/Technician

Bachelor's Degrees

- ♦ Aviation Science
- ♦ Aeronautical/Aerospace Engineering Technology

Master's, Doctoral, & Professional Degrees

- ♦ Aerospace, Aeronautical, and Astronautical Engineering

Stackable IBCs/Licensures

- ♦ Aerial Mapping & 3D Modeling Certification



Drone (Unmanned Vehicle) Course Details

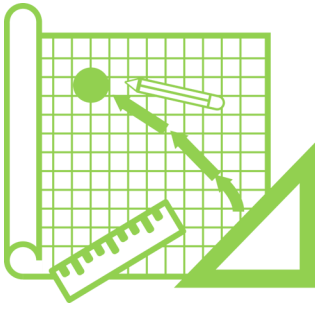
COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Robotics I* (Level 2)	10-12		13037000 27769 1 credit		BNT
Robotics II* (Level 3) (Satisfies a math requirement)	11-12	Robotics I	13037050 27779 1 credit		BNT
Engineering Science* (Level 3)	10-12	Algebra I Biology + another science Recommended pre-requisite: Intro. to Engineering Design	13037500 27715 1 credit		BHS LBHS
Digital Electronics* (Level 3) (Satisfies a math requirement)	10-12	Algebra I Geometry	13037600 27727 1 credit		BHS LBHS
Introduction to Unmanned Aerial Vehicles (UAV) (Level 2)	11-12	None	N1304670 27728 1 credit	FAA Part 107 Remote Drone Pilot	BNT
Scientific Research & Design* (Level 4) (Satisfies a science requirement)	12	Biology Chemistry IPC or Physics	13037200 27735 1 credits		BHS LBHS BNT
Career Prep or Ext. Career Prep for POS* (Level 4) (Related job required; 10 hrs/wk; or 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27415 3 credits		BHS LBHS

*Course is included in additional programs of study.



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ENGINEERING

The Engineering Career Cluster focuses on the planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles.

Engineering Foundations

The Engineering Foundations program of study focuses on opportunities associated with a wide range of skills applied in the Engineering industry. Students will design, test, and evaluate projects related to engines, machines, and structures. This program includes applying scientific, mathematical, and empirical evidence to solve problems through innovation, design, construction, operation, and maintenance of different engineering systems.

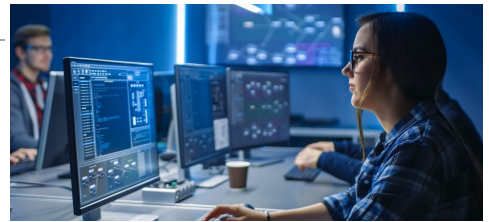
Engineering Foundations Course Pathway

Investigation	◆ Gateway I (PLTW) ◆ Principles of Applied Engineering ◆ Introduction to Engineering Design (PLTW) ◆ Robotics I
Navigation	◆ Engineering Science ◆ Civil Engineering & Architecture ◆ Robotics II ◆ Digital Electronics
Preparation	◆ Aerospace Engineering (PLTW)
Application	◆ Scientific Research & Design ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ◆ AP Calculus AB*
- ◆ AP Computer Science A*
- ◆ AP Physics I*
- ◆ AP Physics II*
- ◆ Ap Statistics*



ALIGNED ENDORSEMENT: Successful completion of the Engineering Foundations program of study fulfills the requirements of the Business & Industry endorsement. A STEM endorsement is also fulfilled with the required math and science credits.

ALIGNED OCCUPATIONS

Engineering Technologists & Technicians, Expert Drafters

Median Wage: \$60,138
Annual Openings: 1,024
10-year Growth: 13%

Mechanical Engineers

Median Wage: \$100,489
Annual Openings: 1,852
10-year Growth: 15%

Engineers

Median Wage: \$102,365
Annual Openings: 1,132
10-year Growth: 20%

WORK-BASED LEARNING

- ◆ Internship at an engineering, robotics, or aerospace company
- ◆ Job shadow an engineer

EXPANDED LEARNING

- ◆ TSA or SkillsUSA participation
- ◆ Participate in an engineering association

INDUSTRY-BASED CERTIFICATIONS

- ◆ Autodesk Associate Fusion 360
- ◆ Autodesk Associate Inventor for Mechanical Design
- ◆ Autodesk Associate Revit for Architecture

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Industrial Engineering Technology

Associate Degrees

- ◆ Manu. Engineering Technology
- ◆ Robotics Technology/Technician

Bachelor's, Master's, Doctoral, & Professional Degrees

- ◆ Electrical Engineering
- ◆ Engineering, General

Stackable IBCs/Licensures

- ◆ Professional Engineer (PE License)
- ◆ Engineer in Training Cert (EIT)



Engineering Foundations Course Details

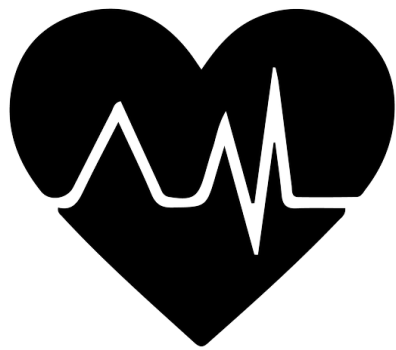
COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Gateway I (PLTW)* *Does NOT count toward POS concentrator or completer status	7	None	—		BMS LBMS NBMS SBMS
Principles of Applied Engineering (Level 1)	7-8	None	13036200 27705 1 credit		BMS LBMS NBMS SBMS
Introduction to Engineering Design (PLTW) (Level 1)	9-12	None	N1303742 27710 1 credit	Autodesk Associate Fusion 360 Autodesk Associate Inventor for Mechanical Design	BHS LBHS
Robotics I* (Level 2)	10-12	Recommended pre-requisite: Principles of Applied Engineering	13037000 27769 1 credit		BNT
Robotics II* (Level 3) (Satisfies a math requirement)	11-12	Robotics I	13037050 27779 1 credit		BNT
Engineering Science (Level 3)	10-12	Algebra I Biology + another science Recommended prerequisite: Intro. to Engineering Design	13037500 27715 1 credit	Autodesk Associate Inventor for Mechanical Design	BHS LBHS
Civil Engineering & Architecture (PLTW) (Level 3)	11-12	Recommended pre- or co- requisite: Introduction to Engineering Design	N1303747 27725 1 credit		BHS LBHS
Digital Electronics (Level 3) (Satisfies a math requirement)	10-12	Algebra I Geometry	13037600 27727 1 credit		BHS LBHS
Aerospace Engineering (PLTW) (Level 3)	11-12	Engineering Science, Civil Engineering & Architecture, OR Digital Electronics	N1303745 27726 1 credit	Autodesk Associate Inventor for Mechanical Design	BHS LBHS
Scientific Research & Design (Level 4) (Satisfies a science requirement)	12	Biology Chemistry IPC or Physics	13037200 27735 1 credits		BHS LBHS BNT
Career Prep or Ext. Career Prep for POS* (Level 4) (Related job required; 10 hrs/wk; or 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27415 3 credits		BHS LBHS

*Course is included in additional programs of study.



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A FOUNDATION FOR OPPORTUNITY
HEALTH SCIENCE



HEALTH SCIENCE

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Biomedical Science

The Biomedical Science program of study focuses on occupational and educational opportunities associated with the study of biology and medicine. This program of study includes researching and diagnosing diseases, pre-existing conditions, and other determinants of health. Students will also practice patient care and communication.

Biomedical Science Course Pathway

Investigation	◆ Principles of Health Science ◆ Principles of Biosciences
Navigation	◆ Medical Terminology
Preparation	◆ Biotechnology I ◆ Anatomy & Physiology ◆ Medical Microbiology ◆ Pathophysiology
Application	◆ Practicum in Health Science ◆ Scientific Research & Design ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

These courses do not count toward Concentrator/Completer status.

- ◆ AP Biology*
- ◆ AP Chemistry*



ALIGNED ENDORSEMENT: Successful completion of the Biomedical Science program of study fulfills the requirements of the Public Services endorsement. A STEM endorsement is also fulfilled with the required math and science credits.

ALIGNED OCCUPATIONS

Medical Equipment Preparers

Median Wage: \$37,572
Annual Openings: 586
10-year Growth: 17%

Clinical Laboratory Technologists & Technicians

Median Wage: \$48,497
Annual Openings: 2,369
10-year Growth: 16%

Biological Technicians

Median Wage: \$49,566
Annual Openings: 850
10-year Growth: 22%

WORK-BASED LEARNING

- ◆ Internship with a biological or medical scientist
- ◆ Job shadow in a clinical lab

EXPANDED LEARNING

- ◆ HOSA participation
- ◆ Job shadow in a hospital or clinic

INDUSTRY-BASED CERTIFICATIONS

- ◆ Biotechnical Assistant Credentialing Exam (BACE) (TBA)

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Medical-Lab Technician

Associate Degrees

- ◆ Biotechnology
- ◆ Biology/Biological Sciences

Bachelor's Degrees

- ◆ Biomedical &/or Medical Sciences

Master's, Doctoral and Professional Degrees

- ◆ Cellular & Molecular Biology
- ◆ Biomedical Sciences

Stackable IBCs/Licensures

- ◆ Cytotechnologist

Biomedical Science Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Health Science* (Level 1)	8-12	None	13020200 27100 1 credit		BMS, LBMS NBMS, SBMS BHS, LBHS
Principles of Biosciences (Level 1)	9-12	None	13036300 27707 1 credit		BHS LBHS
Medical Terminology* (Level 2)	9-12	None	13020300 27102 1 credit		BHS LBHS
Biotechnology I (Level 2) (Satisfies a science requirement)	11-12	Biology Chemistry Recommended pre- or co- requisite: Prin. of Bioscience OR Prin. of Health Science	13036400 27708 1 credit		BHS LBHS
Anatomy & Physiology* (Level 3) (Satisfies a science requirement)	11-12	Biology + a second science	13020600 27115 1 credit		BHS LBHS
Medical Microbiology* (Level 3) (Satisfies a science requirement)	11-12	Biology Chemistry 1+ credit(s) from the Health Science cluster	13020700 27116 1 credit	Biotechnical Assistant Credentialing Exam (BACE) (TBA)	BHS LBHS
Pathophysiology* (Level 4) (Satisfies a science requirement)	11-12	Biology Chemistry 1+ credit from the Health Science cluster	13020800 27125 1 credit	Biotechnical Assistant Credentialing Exam (BACE) (TBA)	BHS LBHS
Practicum in Health Science (Level 4) Medical Lab Assistant (overlay w/ Phlebotomy)	12	Health Science Theory Anatomy & Physiology	13020500 47115 2 credits 13020510 47219 2 credits	Certified Medical Lab Assistant	BHS LBHS
Scientific Research & Design* (Level 4) (Satisfies a science requirement)	12	Biology Chemistry IPC or Physics	13037200 27735 1 credit		BHS LBHS BNT
Career Prep or Ext. Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27415 3 credits		BHS

*Course is included in additional programs of study.



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HEALTH SCIENCE

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Diagnostic & Therapeutic Services

The Diagnostic & Therapeutic Services program of study focuses on opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

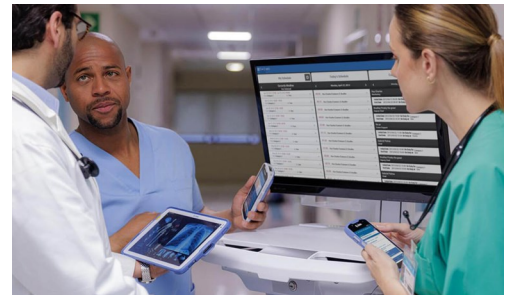
Diagnostic & Therapeutic Course Pathway

Investigation	- Principles of Health Science - Medical Terminology
Navigation	- Disaster Response - Health Science Theory
Preparation	- Anatomy & Physiology - Medical Microbiology - Pathophysiology
Application	- Practicum in Health Science (Phlebotomy, CCMA, CPhT, CPCT) - Emergency Medical Technician—Basic - Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- AP Biology*
- AP Chemistry*



ALIGNED ENDORSEMENT: Successful completion of the Biomedical Science program of study fulfills the requirements of the Public Services endorsement. A STEM endorsement is also fulfilled with the required math and science credits.

ALIGNED OCCUPATIONS

Medical Assistants

Median Wage: \$36,821
Annual Openings: 13,191
10-year Growth: 25%

Clinical Laboratory Technologists & Technicians

Median Wage: \$48,497
Annual Openings: 2,369
10-year Growth: 16%

Physician Assistant

Median Wage: \$120,841
Annual Openings: 1,022
10-year Growth: 40%

WORK-BASED LEARNING

- Internship at a community clinic
- Job shadow in a hospital
- EMS ride along/job shadow

EXPANDED LEARNING

- HOSA participation
- Community Emergency Response Team (CERT)

INDUSTRY-BASED CERTIFICATIONS

- Clinical Medical Assistant (CCMA)
- Certified EKG Technician
- Patient Care Technician (CPCT)
- EMT—Basic
- Pharmacy Technician (CPhT)
- Phlebotomy Technician
- Emergency Medical Responder

POSTSECONDARY LEARNING

Apprenticeships

- Medical Assistant

Associate Degrees

- Emergency Medical Technology
- Radiologic Technology/Science

Bachelor's Degrees

- Emergency Medical Technology
- Medical Ins. Coding Specialist

Master's, Doctoral and Professional Degrees

- Medicine
- Occupational Therapy

Stackable IBCs/Licensures

- Registered Diagnostic Medical Sonographer



Diagnostic & Therapeutic Services Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Health Science* (Level 1)	8-12	None	13020200 27100 1 credit		BMS LBMS NBM SBMS BHS LBHS
Medical Terminology* (Level 2)	9-12	None	13020300 27102 1 credit		BHS LBHS
Disaster Response* (Level 2)	9-12	None	N1303011 27445 1 credit	Emergency Medical Responder	BHS LBHS
Health Science Theory (Level 3)	10-12	Biology	13020400 27103 1 credit		BHS LBHS
Anatomy & Physiology* (Level 3) (Satisfies a science requirement)	11-12	Biology + a second science	13020600 27115 1 credit		BHS LBHS
Medical Microbiology* (Level 3) (Satisfies a science requirement)	11-12	Biology Chemistry 1+ credit(s) from the Health Science cluster	13020700 27116 1 credit		BHS LBHS
Pathophysiology (Level 4) (Satisfies a science requirement)	11-12	Biology Chemistry 1+ credit from the Health Science cluster	13020800 27125 1 credit		BHS LBHS
Practicum in Health Science (Level 4) CCMA 47111 / 47216 CPCT 47112 / 47217 CPHT 47110 / 47218 Phleb Tech. 47115 / 47219	12	Health Science Theory Anatomy & Physiology	13020500 see codes on right (1st time taken) 13020510 see codes on right (2nd time taken) 2 credits	Certified EKG Clinical Medical Assistant Patient Care Technician Pharmacy Technician Phlebotomy Technician	BHS LBHS
Emergency Medical Technician—Basic (Level 3) (Student is responsible for dual credit cost)		Disaster Response Anatomy & Physiology	N1303015 47104 2 credits	EMT—Basic	BHS LBHS
Career Prep or Ext. Career Prep for POS* (Level 4) (Related job required; 10 hrs/wk; or 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27415 3 credits		BHS LBHS

*Course is included in additional programs of study.



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HEALTH SCIENCE

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Exercise Science, Wellness, & Restoration

The Exercise Science, Wellness, & Restoration program of study focuses on opportunities associated with assisting patients with maintaining physical, mental, and emotional health. This program of study includes researching diet and exercise needed to maintain a healthy, balanced lifestyle and exploring techniques to help patients recover from injury, illness, or disease.

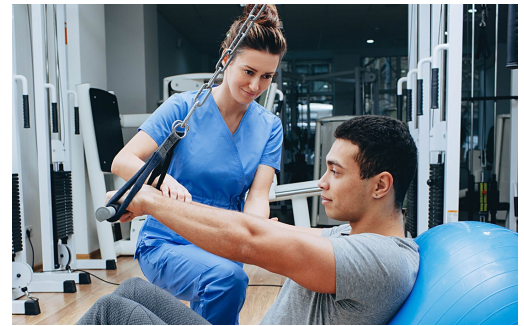
Exercise Science, Wellness, & Restoration Course Pathway

Investigation	- Principles of Health Science - Lifetime Nutrition & Wellness - Medical Terminology
Navigation	- Health Science Theory - Entrepreneurship I
Preparation	Anatomy & Physiology
Application	- Practicum in Health Science (CCMA, EMT—Basic) - Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ♦ AP Biology*



ALIGNED ENDORSEMENT: Successful completion of the Exercise Science, Wellness & Restoration program of study fulfills the requirements of the Public Services endorsement.

ALIGNED OCCUPATIONS

Exercise Trainers & Group Fitness Instructors

Median Wage: \$38,785
Annual Openings: 5,525
10-year Growth: 31%

Athletic Trainers

Median Wage: \$59,899
Annual Openings: 271
10-year Growth: 26%

Physical Therapist Assistants

Median Wage: \$71,980
Annual Openings: 1,590
10-year Growth: 34%

WORK-BASED LEARNING

- ♦ Internship with a physical therapist, occupational therapist, or speech therapist
- ♦ Job shadow an athletic trainer

EXPANDED LEARNING

- ♦ HOSA or SkillsUSA participation
- ♦ Texas State Athletic Trainers Association participation

INDUSTRY-BASED CERTIFICATIONS

- ♦ Clinical Medical Assistant (CCMA)
- ♦ Emergency Medical Technician—Basic

POSTSECONDARY LEARNING

Apprenticeships

- ♦ Medical Assistant

Associate Degrees

- ♦ Physical Therapy Assistant
- ♦ Exercise Science & Kinesiology

Bachelor's Degrees

- ♦ Nutrition Sciences
- ♦ Exercise Science & Kinesiology

Master's, Doctoral and Professional Degrees

- ♦ Exercise Science & Kinesiology
- ♦ Physical Therapy

Stackable IBCs/Licensures

- ♦ Physical Therapy Technician/Aide Certification

Exercise Science, Wellness, & Restoration Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Health Science* (Level 1)	8-12	None	13020200 27100 1 credit		BMS LBMS NBM SBMS BHS LBHS
Lifetime Nutrition & Wellness* (Level 2)	9-12	None	13024500 17545 .5 credit		BHS LBHS
Medical Terminology* (Level 2)	9-12	None	13020300 27102 1 credit		BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Health Science Theory* (Level 3)	10-12	Biology	13020400 27103 1 credit		BHS LBHS
Anatomy & Physiology* (Level 3) (Satisfies a science requirement)	11-12	Biology + a second science	13020600 27115 1 credit		BHS LBHS
Practicum in Health Science CCMA 47111 / 47216 EMT—Basic 47220 (Level 4)	12	Health Science Theory Anatomy & Physiology	13020500 see codes on left (1st time taken) 13020510 see codes on left (2nd time taken) 2 credits	Clinical Medical Assistant EMT—Basic	BHS LBHS
Career Prep or Ext. Career Prep for POS* (Level 4) (Related job required; 10 hrs/wk; or 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27415 3 credits		BHS LBHS

*Course is included in additional programs of study.



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HEALTH SCIENCE

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Nursing Science

The Nursing Science program of study focuses on occupational and educational opportunities associated with patient care. This program of study includes the practice of caring for patients, performing routine procedures such as monitoring vital signs, developing and implementing care plans, maintaining medical records, and managing disease or pain.

Nursing Science Course Pathway

Investigation	- Principles of Health Science - Medical Terminology
Navigation	Health Science Theory
Preparation	- Anatomy & Physiology - Medical Microbiology - Pathophysiology
Application	- Practicum in Health Science (CCMA, CPCT, Phlebotomy) - Career Preparation for Program of Study



Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- AP Biology*
- AP Chemistry*

ALIGNED ENDORSEMENT: Successful completion of the Nursing Science program of study fulfills the requirements of the Public Services endorsement. A STEM endorsement is also fulfilled with the required math and science credits.

ALIGNED OCCUPATIONS

Nursing Assistants

Median Wage: \$29,400
Annual Openings: 13,757
10-year Growth: 16%

Licensed Practical & Vocational Nurses

Median Wage: \$48,500
Annual Openings: 6,745
10-year Growth: 13%

Registered Nurses

Median Wage: \$77,259
Annual Openings: 17,342
10-year Growth: 15%

WORK-BASED LEARNING

- Internship at a community clinic, hospital, assisted living and/or long term care facility
- Job shadow in a clinic or hospital

EXPANDED LEARNING

- HOSA participation
- Volunteer at a community clinic, hospital, assisted living and/or long term care facility

INDUSTRY-BASED CERTIFICATIONS

- Clinical Medical Assistant (CCMA)
- Patient Care Technician (CPCT)
- Phlebotomy Technician

POSTSECONDARY LEARNING

Apprenticeships

- Registered Nurse Resident

Associate Degrees

- Medical/Clinical Assistant
- Nursing Administration

Bachelor's Degrees

- Registered Nursing
- Licensed Practical/Vocational Nurse

Master's, Doctoral and Professional Degrees

- Nursing Administration
- Nursing Science

Stackable IBCs/Licensures

- Registered Nurse

Nursing Science Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Health Science* (Level 1)	8-12	None	13020200 27100 1 credit		BMS LBMS NBM SBMS BHS LBHS
Medical Terminology* (Level 2)	9-12	None	13020300 27102 1 credit		BHS LBHS
Health Science Theory (Level 3)	10-12	Biology	13020400 27103 1 credit		BHS LBHS
Anatomy & Physiology* (Level 3) (Satisfies a science requirement)	11-12	Biology + a second science	13020600 27115 1 credit		BHS LBHS
Medical Microbiology* (Level 3) (Satisfies a science requirement)	11-12	Biology Chemistry 1+ credit(s) from the Health Science cluster	13020700 27116 1 credit		BHS LBHS
Pathophysiology (Level 4) (Satisfies a science requirement)	11-12	Biology Chemistry 1+ credit from the Health Science cluster	13020800 27125 1 credit		BHS LBHS
Practicum in Health Science CCMA 47111 / 47216 CPCT 47112 / 47217 Phleb Tech. 47115 / 47219 (Level 4)	12	Health Science Theory Anatomy & Physiology	13020500 see codes on right (1st time taken) 13020510 see codes on right (2nd time taken) 2 credits	Clinical Medical Assistant Patient Care Technician Phlebotomy Technician	BHS LBHS
Career Prep or Ext. Career Prep for POS* (Level 4) (Related job required; 10 hrs/wk; or 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27415 3 credits		BHS LBHS

*Course is included in additional programs of study.



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A FOUNDATION FOR OPPORTUNITY
HOSPITALITY & TOURISM



HOSPITALITY AND TOURISM

The Hospitality and Tourism Career Cluster focuses on the management, marketing, and operations of restaurants and other food and beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.

Culinary Arts

The Culinary Arts program of study focuses on opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study includes opportunities involving directing and participating in the preparation of food.

Culinary Arts Course Pathway

Investigation	◆ Introduction to Culinary Arts
Navigation	◆ Culinary Arts ◆ Entrepreneurship I
Preparation	◆ Advanced Culinary Arts
Application	◆ Practicum in Culinary Arts ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ◆ AP Chemistry*



ALIGNED ENDORSEMENT: Successful completion of the Culinary Arts program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Bakers

Median Wage: \$27,137
Annual Openings: 3,801
10-year Growth: 23%

Chefs and Head Cooks

Median Wage: \$40,859
Annual Openings: 2,662
10-year Growth: 34%

General and Operational Managers

Median Wage: \$82,917
Annual Openings: 41,019
10-year Growth: 19%

WORK-BASED LEARNING

- ◆ Intern at a catering company
- ◆ Job shadow a non-profit food director
- ◆ Part-time restaurant work

EXPANDED LEARNING

- ◆ FCCLA or SkillsUSA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ ServSafe Manager

POSTSECONDARY LEARNING

Associate Degrees

- ◆ Culinary Arts
- ◆ Baking and Pastry Arts

Bachelor's Degrees

- ◆ Hotel/Motel Administration/Mgmt.
- ◆ Culinary Science

Master's, Doctoral and Professional Degrees

- ◆ Organizational Leadership
- ◆ Foodservice Systems Admin./Management

Stackable IBCs/Licensures

- ◆ Food Manager Licensing



Culinary Arts Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Introduction to Culinary Arts (Level 1)	9-12	None	13022550 27595 1 credit		BHS LBHS
Culinary Arts (Level 2) (Outside of class work required) (2 credit course scheduled for 1 period)	10-12	Introduction to Culinary Arts	13022600 47525 2 credits		BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Advanced Culinary Arts (Level 3)	11-12	Culinary Arts	13022650 47530 2 credits	ServSafe Manager	BHS LBHS
Practicum in Culinary Arts (Level 4)	12	Advanced Culinary Arts	13022700 47535 2 credits	ServSafe Manager	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.





A FOUNDATION FOR OPPORTUNITY
HUMAN SERVICES



HUMAN SERVICES

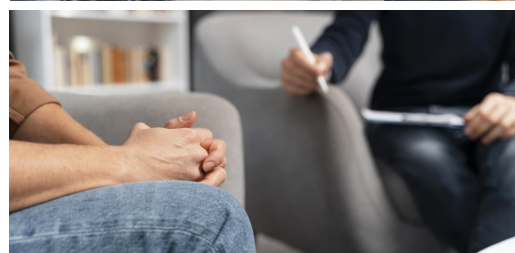
The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

Family & Community Services

The Family & Community Services program of study focuses on opportunities related to social services, including child and human development and consumer sciences. This program includes managing social and community services, managing family and consumer sciences, and understanding career paths in social work or therapy for children, families, or school communities.

Family & Community Course Pathway

Investigation	◆ Principles of Human Services ◆ Professional Communications ◆ Lifetime Nutrition & Wellness
Navigation	◆ Child Development ◆ Entrepreneurship I ◆ Family & Community Services
Preparation	◆ Counseling & Mental Health
Application	◆ Practicum in Human Services ◆ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Family & Community Services program of study fulfills the requirements of the Public Services endorsement.

ALIGNED OCCUPATIONS

Social and Human Service Assistants

Median Wage: \$37,033
Annual Openings: 3,564
10-year Growth: 24%

Community Health Workers

Median Wage: \$38,493
Annual Openings: 762
10-year Growth: 26%

Child, Family, and School Social Workers

Median Wage: \$47,374
Annual Openings: 2,618
10-year Growth: 18%

WORK-BASED LEARNING

- ◆ Intern at a community health center
- ◆ Job shadow a social worker

EXPANDED LEARNING

- ◆ FCCLA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ Community Health Worker

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Community Health Worker

Associate & Bachelor's Degrees

- ◆ Social Work
- ◆ Human Dev. & Family Studies

Master's, Doctoral and Professional Degrees

- ◆ Mental Health Counseling
- ◆ Marriage and Family Therapy

Stackable IBCs/Licensures

- ◆ Certified Diabetes Educator

Family & Community Services Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Human Services* (Level 1)	9-12	None	13024200 27501 1 credit		BHS LBHS
Professional Communications* (Level 1)	9-12	None	13009900 17282 .5 credit		BHS LBHS
Lifetime Nutrition & Wellness (Level 2)	9-12	None	13024500 17545 .5 credit		BHS LBHS
Child Development* (Level 2)	10-12	Recommended pre- or co- requisite: Prin. of Human Services	13024700 27570 1 credit		BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Family & Community Services* (Level 3)	10-12	Recommended pre- or co- requisite: Prin. of Human Services	13024900 27575 1 credit		BHS LBHS
Counseling & Mental Health* (Level 3)	11-12	Recommended prerequisite: Prin. of Human Services or Prin. of Law, Public Safety, Corrections, and Security	13024600 27580 1 credit		BHS LBHS
Practicum in Human Services (Level 4)	12	2+ courses for 2+ credits in aligned program of study	13025000 47570 2 credits	Community Health Worker	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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HUMAN SERVICES

The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

Health & Wellness

The Health & Wellness program of study focuses on opportunities associated with promoting physical, emotional, and mental health and wellness. This program of study includes assisting patients in planning for their health and wellness, responding to crisis, providing education or counseling, making referrals, and addressing barriers to accessing health and wellness services.

Health & Wellness Course Pathway

Investigation	◆ Principles of Human Services ◆ Lifetime Nutrition & Wellness
Navigation	◆ Child Development ◆ Entrepreneurship I ◆ Family & Community Services
Preparation	◆ Counseling & Mental Health
Application	◆ Practicum in Human Services ◆ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Health & Wellness program of study fulfills the requirements of the Public Services endorsement.

ALIGNED OCCUPATIONS

Dietetic Technician

Median Wage: \$27,830
Annual Openings: 175
10-year Growth: 163%

Community Health Workers

Median Wage: \$38,493
Annual Openings: 762
10-year Growth: 26%

Dietitians & Nutritionists

Median Wage: \$61,407
Annual Openings: 476
10-year Growth: 20%

WORK-BASED LEARNING

- ◆ Intern as a peer counselor or at a non-profit organization
- ◆ Job shadow a dietitian

EXPANDED LEARNING

- ◆ FCCLA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ Community Health Worker

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Community Health Worker

Associate Degrees

- ◆ Social Work
- ◆ Community Health Services Counseling

Bachelor's Degrees

- ◆ Social Work
- ◆ Mental Health Counseling

Master's, Doctoral and Professional Degrees

- ◆ Nutrition Sciences
- ◆ Dietetics

Stackable IBCs/Licensures

- ◆ Dietician

Health & Wellness Course Details

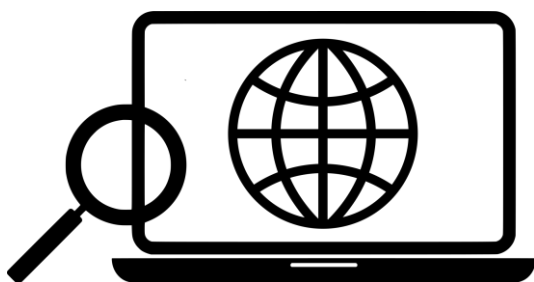
COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Human Services* (Level 1)	9-12	None	13024200 27501 1 credit		BHS LBHS
Lifetime Nutrition & Wellness (Level 2)	9-12	None	13024500 17545 .5 credit		BHS LBHS
Child Development* (Level 2)	10-12	Recommended pre- or co- requisite: Prin. of Human Services	13024700 27570 1 credit		BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Family & Community Services (Level 3)	10-12	Recommended pre- or co- requisite: Prin. of Human Services	13024900 27575 1 credit		BHS LBHS
Counseling & Mental Health* (Level 3)	11-12	Recommended pre-requisite: Prin. of Human Services or Prin. of Law, Public Safety, Corrections, and Security	13024600 27580 1 credit		BHS LBHS
Practicum in Human Services* (Level 4)	12	2+ courses for 2+ credits in aligned program of study	13025000 47570 2 credits	Community Health Worker	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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A FOUNDATION FOR OPPORTUNITY
INFORMATION TECHNOLOGY

INFORMATION TECHNOLOGY

The Information Technology (IT) Career Cluster focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Cybersecurity

The Cybersecurity program of study focuses on opportunities associated with planning, implementing, upgrading, or monitoring security measures for the protection of computer networks and information. This program of study includes responding to computer security breaches and viruses and administering network security measures.

Cybersecurity Course Pathway

Investigation	♦ Fundamentals of Computer Science
Navigation	♦ Computer Science I ♦ AP Computer Science Principles ♦ Internetworking Technologies I (Cisco)
Preparation	♦ AP Computer Science A ♦ Networking ♦ Internetworking Technologies II (Cisco)
Application	♦ CyberSecurity Capstone ♦ Practicum in STEM ♦ Practicum in IT ♦ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ♦ AP Computer Science A*
- ♦ AP Computer Science Principles*



ALIGNED ENDORSEMENT: Successful completion of the Cybersecurity program of study fulfills the requirements of the Business & Industry endorsement. A STEM endorsement is also fulfilled with the required math and science credits.

ALIGNED OCCUPATIONS

Computer User Support Specialists

Median Wage: \$48,099
Annual Openings: 8,412
10-year Growth: 26%

Information Security Analysts

Median Wage: \$100,592
Annual Openings: 2,215
10-year Growth: 56%

Software Developers

Median Wage: \$103,195
Annual Openings: 15,635
10-year Growth: 55%

WORK-BASED LEARNING

- ♦ Internship at a bank, hospital, government office
- ♦ Interview an information security analyst to learn how they plan for, monitor, & upgrade security measures

EXPANDED LEARNING

- ♦ Participate in a Hackathon
- ♦ TSA or SkillsUSA participation

INDUSTRY-BASED CERTIFICATIONS

- ♦ CompTIA IT Fundamentals+ (TBA)
- ♦ CompTIA A+ (TBA)
- ♦ CodeHS Cybersecurity Level 1

POSTSECONDARY LEARNING

Associate Degrees

- ♦ Computer & Info. Systems Security
- ♦ Computer Programming

Bachelor's Degrees

- ♦ Computer Science
- ♦ Computer Software Engineering

Master's, Doctoral and Professional Degrees

- ♦ Computer and Info. Systems Security/Auditing/Info. Assurance
- ♦ Computer Software Engineering

Stackable IBCs/Licensures

- ♦ Certified Ethical Hacker (CEH)



Cybersecurity Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Fundamentals of Computer Science* (Level 1)	9-12	None	03580140 27756 1 credit		BHS LBHS
Computer Science I* (Level 2)	9-12	Pre- or Co- requisite: Algebra I	03580200 27330 1 credit		BHS LBHS
AP Computer Science Principles* (Level 2) (Satisfies a LOTE credit)	9-12	Pre- or Co- requisite: Algebra I	A3580300 27765 1 credit		BHS LBHS
Internetworking Technologies I (Cisco) (Level 2)	10-12	None	N1302803 27326 1 credit		BHS
AP Computer Science A* (Level 3) (Satisfies a math & LOTE requirement)	10-12	Algebra I	A3580120 (LOTE) A3580110 (MATH) 27767 (LOTE) 27766 (Math) 1 credit	CompTIA IT Fundamentals+ (TBA)	BHS LBHS
Networking* (Level 3)	11-12	None	13027400 27751 1 credit	CompTIA Networking+	LBHS
Internetworking Technologies II (Cisco) (Level 3)	11-12	Internetworking Technologies I (Cisco)	N1302804 27327 1 credit	CompTIA IT Fundamentals+ (TBA)	BHS
Cybersecurity Capstone (Level 4)	12	3+ courses for 3+ credits in aligned program of study	03580855 27768 1 credit	CompTIA A+ (TBA) CodeHS Cybersecurity Level 1	BHS LBHS
Practicum in STEM* (Level 4)	12	Algebra I Geometry 2+ courses for 2+ credits in aligned POS	13037400 47760 2 credits	CompTIA A+ (TBA) CodeHS Cybersecurity Level 1	BHS LBHS
Practicum in Info. Technology* (Level 4)	12	2+ courses for 2+ credits in aligned POS	13028000 47762 2 credits	CompTIA A+ (TBA) CodeHS Cybersecurity Level 1	BHS LBHS
Career Prep or Ext. Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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INFORMATION TECHNOLOGY

The Information Technology (IT) Career Cluster focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

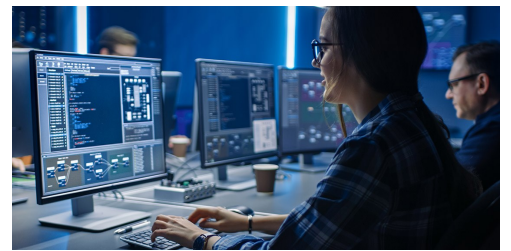
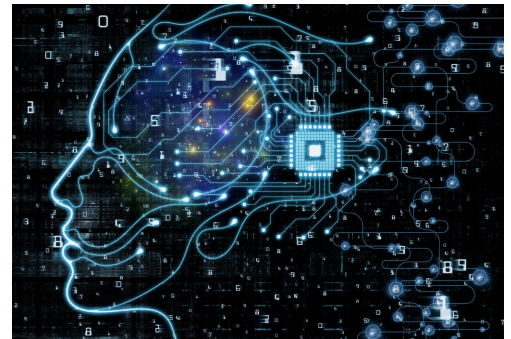
Information Technology Support & Services

The Information Technology Support & Services program of study focus on opportunities associated with administering, testing and implementing computer databases and applying knowledge of database management systems. This program of study includes analyzing user requirements, automating or improving existing systems, and reviewing computer system capabilities. It also includes research, design, and testing of computer or computer-related equipment for commercial, industrial, military , or scientific use.



Information Technology Support & Services Course Pathway

Investigation	◆ Fundamentals of Computer Science
Navigation	◆ Internetworking Technologies I (Cisco)
Preparation	◆ Internetworking Technologies II (Cisco)
Application	◆ CTE Project-Based Capstone ◆ Practicum in Information Technology ◆ Career Preparation for Program of Study



Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ◆ AP Computer Science Principles*
- ◆ AP Computer Science A*

ALIGNED ENDORSEMENT: Successful completion of the Information Technology Support & Services program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Computer User Support Specialists

Median Wage: \$48,099
Annual Openings: 8,412
10-year Growth: 26%

Computer Network Support Specialists

Median Wage: \$62,292
Annual Openings: 1,821
10-year Growth: 30%

Computer Hardware Engineers

Median Wage: \$122,409
Annual Openings: 540
10-year Growth: 28%

WORK-BASED LEARNING

- ◆ Intern at an IT company
- ◆ Shadow a database administrator or computer software or hardware engineer

EXPANDED LEARNING

- ◆ TSA or SkillsUSA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ CompTIA IT Fundamentals+ (TBA)
- ◆ CompTIA A+ (TBA)

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Computer Support Specialist

Associate Degrees

- ◆ Computer Science
- ◆ Network & System Admin.

Bachelor's Degrees

- ◆ Computer & Info. Systems
- ◆ Security/Auditing/Info Assurance
- ◆ Computer Engineering

Master's, Doctoral, & Prof. Degrees

- ◆ Information Science/Studies
- ◆ Electrical Engineering

Stackable IBCs/Licensures

- ◆ CompTIA Server+



Information Technology Support & Services Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Fundamentals of Computer Science* (Level 1)	9-12	None	03580140 27756 1 credit		BHS LBHS
Internetworking Technologies I (Cisco)* (Level 2)	10-12		N1302803 27326 1 credit		BHS
Internetworking Technologies II (Cisco)* (Level 3)	11-12		N1302804 27327 1 credit	CompTIA IT Fundamentals+ (TBA) CompTIA Networking+	BHS
Practicum in Information Technology* (Level 4)	12	2+ courses for 2+ credits in aligned POS	13028000 47762 2 credits	CompTIA A+ (TBA)	BHS LBHS
CTE Project-Based Capstone* (Level 4)	12	3+ courses for 3+ Credits (with level 2 or higher course) in aligned POS (sans Career Prep)	12701101 27044 1 credit	CompTIA A+ (TBA)	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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INFORMATION TECHNOLOGY

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Networking Systems

The Networking Systems program of study focuses on 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 includes analysis of data processing challenges to implementing and improving computer systems.

Networking Systems Course Pathway

Investigation	◆ Fundamentals of Computer Science
Navigation	◆ Internetworking Technologies I (Cisco) ◆ Computer Science I ◆ AP Computer Science Principles
Preparation	◆ Internetworking Technologies II (Cisco) ◆ Networking
Application	◆ CTE Project-Based Capstone ◆ Practicum in Information Technology ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*This course does not count toward Concentrator/Completer status.

- ◆ AP Computer Science Principles*



ALIGNED ENDORSEMENT: Successful completion of the Networking Systems program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Computer Network Support Specialists

Median Wage: \$62,292
Annual Openings: 1,821
10-year Growth: 30%

Network and Computer Systems Administrators

Median Wage: \$79,679
Annual Openings: 3,184
10-year Growth: 22%

Computer Systems Analysts

Median Wage: \$100,036
Annual Openings: 6,190
10-year Growth: 29%

WORK-BASED LEARNING

- ◆ Intern at an education, public service or technology organization
- ◆ Interview a network administrator

EXPANDED LEARNING

- ◆ Participate in a Hackathon
- ◆ TSA or SkillsUSA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ CompTIA IT Fundamentals+ (TBA)
- ◆ CompTIA A+ (TBA)

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Telecommunications Tech.

Associate Degrees

- ◆ Computer Systems Networking & Telecommunications
- ◆ Network & System Admin

Bachelor's, Master's Doctoral, & Professional Degrees

- ◆ Computer & Information Sciences
- ◆ Information Technology

Stackable IBCs/Licensures

- ◆ Aruba Certified Mobility Associate (ACMA)

Networking Systems Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Fundamentals of Computer Science* (Level 1)	9-12	None	03580140 27756 1 credit		BHS LBHS
Computer Science I* (Level 2)	9-12	Pre- or Co- requisite: Algebra I	03580200 27330 1 credit		BHS LBHS
AP Computer Science Principles* (Level 2) (Satisfies a LOTE credit)	9-12	Pre- or Co- requisite: Algebra I	A3580300 27765 1 credit		BHS LBHS
Internetworking Technologies I (Cisco)* (Level 2)	10-12		N1302803 27326 1 credit		BHS
Internetworking Technologies II (Cisco)* (Level 3)	11-12		N1302804 27327 1 credit	CompTIA IT Fundamentals+ (TBA) CompTIA Networking+	BHS
Networking* (Level 3)	11-12	None	13027400 27751 1 credit	CompTIA Networking+	LBHS
Practicum in Information Technology* (Level 4)	12	2+ courses for 2+ credits in aligned POS	13028000 47762 2 credits	CompTIA A+ (TBA)	BHS LBHS
CTE Project-Based Capstone* (Level 4)	12	3+ courses for 3+ Credits (with level 2 or higher course) in aligned POS (sans Career Prep)	12701101 27044 1 credit	CompTIA A+ (TBA)	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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INFORMATION TECHNOLOGY

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Programming & Software Development

The Programming & Software Development program of study focuses on occupational and educational opportunities associated with researching, designing, developing, testing, and operating systems-level software, compilers, and network distribution software for medical, industrial, military, codes, forms, and script that allow computer applications to run.

Programming & Software Development Course Pathway

Investigation	◆ Fundamentals of Computer Science
Navigation	◆ Computer Science I ◆ AP Computer Science Principles ◆ Entrepreneurship I
Preparation	◆ Computer Science II ◆ AP Computer Science A
Application	◆ Practicum in Information Technology ◆ Practicum in STEM ◆ Scientific Research & Design ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

*These courses do not count toward Concentrator/Completer status.

- ◆ AP Calculus AB*
- ◆ AP Statistics*



ALIGNED ENDORSEMENT: Successful completion of the Programming & Software Development program of study fulfills the requirements of the Business & Industry endorsement. A STEM endorsement is also fulfilled with the required math and science credits.

ALIGNED OCCUPATIONS

Computer User Support Specialists

Median Wage: \$48,099
Annual Openings: 8,412
10-year Growth: 26%

Computer Programmers

Median Wage: \$76,120
Annual Openings: 1,467
10-year Growth: 15%

Software Developers

Median Wage: \$103,194
Annual Openings: 15,634
10-year Growth: 55%

WORK-BASED LEARNING

- ◆ Intern at an IT company
- ◆ Shadow a software developer

EXPANDED LEARNING

- ◆ Program and create a game
- ◆ TSA or SkillsUSA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ CompTIA IT Fundamentals+ (TBA)
- ◆ CompTIA A+ (TBA)
- ◆ CodeHS Python Level 1
- ◆ Information Technology Specialist: Java

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Computer Programmer

Associate Degrees

- ◆ Computer Programming
- ◆ Web Page, Digital/Multimedia & Information Resources Design

Bachelor's Degrees

- ◆ Data Science
- ◆ Computer Engineering

Master's, Doctoral and Professional Degrees

- ◆ Management Science
- ◆ Computer Software Engineering

Stackable IBCs/Licensures

- ◆ AWS Certified Developer Assoc.



Programming & Software Development Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Fundamentals of Computer Science* (Level 1)	9-12	None	03580140 27756 1 credit		BHS LBHS
Computer Science I* (Level 2)	9-12	Pre- or Co- requisite: Algebra I	03580200 27330 1 credit		BHS LBHS
AP Computer Science Principles* (Level 2) (Satisfies a LOTE requirement)	9-12	Pre- or Co- requisite: Algebra I	A3580300 27765 1 credit		BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Computer Science II (Level 3)	10-12	Computer Science I	03580300 27331 1 credit	CompTIA IT Fundamentals+ (TBA) CompTIA A+ (TBA)	LBHS
AP Computer Science A* (Level 3) (Satisfies math and LOTE requirement)	10-12	Algebra I	A3580120 (LOTE) 27767 (LOTE) A3580110 (MATH) 27766 (MATH) 1 Credit	CompTIA IT Fundamentals+ (TBA) Information Technology Specialist: Java	BHS LBHS
Practicum in Info. Technology* (Level 4)	12	2+ courses for 2+ credits in aligned POS	13028000 47762 2 credits	CompTIA A+ (TBA)	BHS LBHS
Practicum in STEM (Level 4)	12	Algebra I Geometry 2+ courses for 2+ credits in aligned POS	13037400 47760 2 credits	CompTIA A+ (TBA)	BHS LBHS
Scientific Research & Design (Level 4) (Satisfies a science requirement)	12	Biology Chemistry IPC or Physics	13037200 27735 1 credit		BHS LBHS
Career Prep or Ext. Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits 12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



Belton ISD does not discriminate on the basis of race, color, national origin, sex, or disability in its programs or activities. The following person has been designated to handle inquiries regarding the nondiscrimination policies: Title IX Coordinator | 400 N. Wall Street, Belton, TX 76513 | 254.215.2078 | casandra.spearman@bisd.net





A FOUNDATION FOR OPPORTUNITY
LAW & PUBLIC SERVICE



LAW & PUBLIC SERVICE

The Law & Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

Fire Science

The Fire Science program of study focuses on opportunities related to fire prevention, protection, and firefighting. This program of study includes firefighter safety, building codes, and the necessary physical skills to perform rescues. Students will learn about preparedness, basic fire suppression techniques, basic arson investigation, hazardous material management, and educating the public about fire safety.

Fire Science Course Pathway

Investigation	◆ Principles of Law, Public Safety, Corrections, and Security
Navigation	◆ Disaster Response
Preparation	◆ Anatomy & Physiology ◆ Counseling & Mental Health
Application	◆ Emergency Medical Technician—Basic ◆ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Fire Science program of study fulfills the requirements of the Public Services endorsement.

ALIGNED OCCUPATIONS

Emergency Medical Technicians

Median Wage: \$34,631
Annual Openings: 1,084
10-year Growth: 16%

Firefighters

Median Wage: \$52,417
Annual Openings: 2,871
10-year Growth: 11%

Fire Inspectors and Investigators

Median Wage: \$61,057
Annual Openings: 100
10-year Growth: 13%

WORK-BASED LEARNING

- ◆ Intern at a fire inspection company
- ◆ Shadow a fire chief

EXPANDED LEARNING

- ◆ Tour a local fire department
- ◆ SkillsUSA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ Emergency Medical Responder
- ◆ Emergency Medical Technician—Basic
- ◆ IAED Emergency Telecommunicator (TBA)

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Firefighter

Associate Degrees

- ◆ Emergency Medical Technology
- ◆ Fire Prevention & Safety

Bachelor's Degrees

- ◆ Fire Science/Firefighting
- ◆ Emergency Medical Technology

Stackable IBCs/Licensures

- ◆ Hazmat Awareness
- ◆ Fire Investigation Plan Examiner



Fire Science Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Law, Public Safety, Corrections, & Security (Level 1)	9-12	None	13029200 27420 1 credit		BHS LBHS
Disaster Response* (Level 2)	9-12	None	N1303011 27445 1 credit	Emergency Medical Responder	BHS LBHS
Anatomy & Physiology* (Level 3) (Satisfies a science requirement)	11-12	Biology + a second science	13020600 27115 1 credit		BHS LBHS
Counseling & Mental Health* (Level 3)	11-12	Recommended prerequisite: Prin. of Law, Public Safety, Corrections & Security	13024600 27580 1 credit		BHS LBHS
Emergency Medical Technician—Basic* (Level 3) (Student is responsible for associated dual credit cost)	12	Disaster Response Anatomy & Physiology	N1303015 47104 2 credits	EMT—Basic	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.



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LAW & PUBLIC SERVICE

The Law & Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

Government & Public Administration

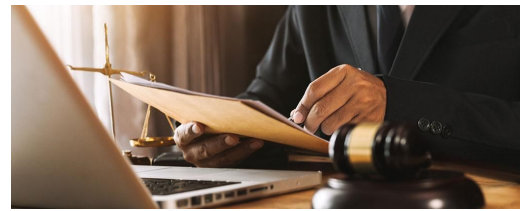
The Government & Public Administration program of study focuses on opportunities associated with examining, evaluating, and investigating compliance with laws and regulations. This program of study includes planning and governance, analysis of revenue and taxation, and processes for communicating with the public.

Government & Public Administration Course Pathway

Investigation	◆ Principles of Government & Public Administration
Navigation	◆ Political Science I
Preparation	◆ Political Science II ◆ Public Management & Administration
Application	◆ Practicum in Local, State, & Federal Government ◆ Career Preparation for Program of Study

Aligned Advanced Placement Courses:

These courses do not count toward Concentrator/Completer status. ◆ AP US Government & Politics



ALIGNED ENDORSEMENT: Successful completion of the Government & Public Administration program of study fulfills the requirements of the Public Services endorsement.

ALIGNED OCCUPATIONS

Political Scientists

Median Wage: \$95,607
Annual Openings: 35
10-year Growth: 27%

Economists

Median Wage: \$98,633
Annual Openings: 93
10-year Growth: 36%

WORK-BASED LEARNING

- ◆ Intern in an economic development organization
- ◆ Shadow a legislator

EXPANDED LEARNING

- ◆ Tour city hall
- ◆ Youth & Government participation
- ◆ Mock trials participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ Administrative Assisting (TBA)
- ◆ General Management (TBA)

POSTSECONDARY LEARNING

Associate Degrees

- ◆ Political Science & Government
- ◆ Public Administration

Bachelor's Degrees

- ◆ Political Science & Government
- ◆ Public Administration

Master's, Doctoral, and Professional Degrees

- ◆ Political Science & Government
- ◆ Public Administration

Stackable IBCs/Licensures

- ◆ Code Enforcement Officer
- ◆ Fire Inspector



Government & Public Administration Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Government & Public Administration (Level 1)	9-12	None	13018200 27036 1 credit		BNT
Political Science I (Level 2)	10-12	Recommended prerequisite: Principles of Gov't & Public Administration	13018300 27037 1 credit		BNT
Political Science II (Level 3)	11-12	Political Science I	13018400 27039 1 credit		BNT
Public Management & Administration (Level 4)	11-12	Recommended prerequisite: Principles of Gov't & Public Administration	13018600 27041 1 credit		BNT
Practicum in Local, State, & Federal Government (Level 4)	12	2+ courses for 2+ credits in aligned POS	13019000 27042 1 credit		BNT
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.





LAW & PUBLIC SERVICE

The Law & Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

Law Enforcement

The Law Enforcement program of study focuses on occupational and educational opportunities associated with the development and enforcement of laws by various branches of law enforcement. This program of study includes understanding the appropriate and legal responses to breaches in the law according to statutory rules and regulations as well as the investigation of how and why the breaches occurred.

Law Enforcement Course Pathway

Investigation	- Principles of Law, Public Safety, Corrections, and Security - Law Enforcement I
Navigation	Law Enforcement II
Preparation	- Forensic Science - Counseling & Mental Health
Application	- Criminal Investigation - Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Law Enforcement program of study fulfills the requirements of the Public Services endorsement.

ALIGNED OCCUPATIONS

Police & Sheriff's Patrol Officers

Median Wage: \$63,785
Annual Openings: 6,198
10-year Growth: 10%

Detectives & Criminal Investigators

Median Wage: \$81,162
Annual Openings: 1,503
10-year Growth: 5%

Front Line Supervisors of Police & Detectives

Median Wage: \$98,862
Annual Openings: 685
10-year Growth: 12%

WORK-BASED LEARNING

- ◆ Intern in a dispatch department
- ◆ Shadow a detective

EXPANDED LEARNING

- ◆ Visit a police department
- ◆ SkillsUSA or TSA participation

INDUSTRY-BASED CERTIFICATIONS

- ◆ Non-Commissioned Security Officer Level II License
- ◆ IAED Emergency Telecommunicator (TBA)

POSTSECONDARY LEARNING

Apprenticeships

- ◆ Security Specialist

Associate Degrees

- ◆ Criminal Justice/Police Science
- ◆ Criminalistics & Criminal Science

Bachelor's Degrees

- ◆ Forensic Science & Technology
- ◆ Criminalistics & Criminal Science

Master's, Doctoral, & Prof. Degrees

- ◆ Criminal Justice
- ◆ Law Enforcement Admin.
- ◆ Securities Services Admin./Mgmt.

Stackable IBCs/Licensures

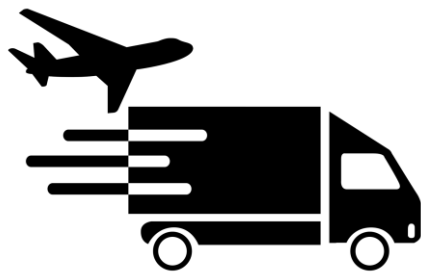
- ◆ County Jailer
- ◆ Telecommunicator

Law Enforcement Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Principles of Law, Public Safety, Corrections, & Security (Level 1)	9-12	None	13029200 27420 1 credit		BHS LBHS
Law Enforcement I (Level 2)	9-12	None	13029300 27425 1 credit		BHS LBHS
Law Enforcement II (Level 3)	10-12	Law Enforcement I	13029400 27430 1 credit	Non-Commissioned Security Officer Level II IAED Emergency Telecommunicator (TBA)	BHS LBHS
Counseling & Mental Health* (Level 3)	11-12	Recommended pre-requisite: Principles of Law, Public Safety, Corrections & Security	13024600 27580 1 credit		BHS LBHS
Forensic Science (Level 4)	11-12	Biology Chemistry, IPC, or Physics	13029500 27415 1 credit		BHS LBHS
Criminal Investigation (Level 2)	12	Forensic Science Recommended pre-requisite: Law 1	13029550 27440 1 credit	Non-Commissioned Security Officer Level II IAED Emergency Telecommunicator (TBA)	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS

*Course is included in additional programs of study.





A FOUNDATION FOR OPPORTUNITY
**TRANSPORTATION, DISTRIBUTION &
LOGISTICS**



TRANSPORTATION, DISTRIBUTION & LOGISTICS

The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, and mobile equipment and facility maintenance.

Automotive & Collision Repair

The Automotive and Collision Repair program of study focuses on opportunities associated with the servicing, repairing, and refinishing of various types of vehicles. This program of study includes diagnosing and servicing vehicles and learning about processes, technologies, and materials used in reconstructing vehicles.

Automotive & Collision Course Pathway

Investigation	♦ Automotive Basics
Navigation	♦ Automotive Technology I: Maintenance & Light Repair ♦ Entrepreneurship I
Preparation	♦ Automotive Technology II: Automotive Services
Application	♦ Practicum Transportation Systems ♦ Career Preparation for Program of Study



ALIGNED ENDORSEMENT: Successful completion of the Automotive & Collision Repair program of study fulfills the requirements of the Business & Industry endorsement.

ALIGNED OCCUPATIONS

Automotive Services Tech.

Median Wage: \$43,100
Annual Openings: 8,696
10-year Growth: 20%

Bus & Truck Mechanics and Diesel Engine Specialists

Median Wage: \$47,350
Annual Openings: 3,180
10-year Growth: 16%

First-Line Supervisors of Mechanics/Installers/Repairers

Median Wage: \$62,984
Annual Openings: 6,883
10-year Growth: 15%

WORK-BASED LEARNING

- ♦ Work at a local auto repair shop doing auto repair and customer service duties
- ♦ Shadow an auto technician
- ♦ Intern at a rental car company

EXPANDED LEARNING

- ♦ SkillsUSA participation
- ♦ Automotive association participation

INDUSTRY-BASED CERTIFICATIONS

- ♦ Up to 15 ASE Entry-Level Certifications

POSTSECONDARY LEARNING

Apprenticeships

- ♦ Auto Technician Specialist

Associate Degrees

- ♦ Automobile/Automotive Mechanics Technology
- ♦ Autobody/Collision & Repair Technology

Bachelor's Degrees

- ♦ Autobody/Collision & Repair Technology
- ♦ Heavy Equipment Maintenance Technology

Stackable IBCs/Licensures

- ♦ Auto & Light Truck Cert (A1-A9)



Automotive & Collision Repair Course Details

COURSE	GRADE LEVEL	PRE- and CO-REQUISITES	PEIMS CODE BISD CODE COURSE CREDIT	ALIGNED IBC	CAMPUS
Automotive Basics (Level 2)	9-12	None	13039550 27656 1 credit		BHS LBHS
Entrepreneurship I* (Level 2)	10-12	None	13011101 27030 1 credit		LBHS
Automotive Technology I: Automotive Maintenance & Light Repair (Level 3)	10-12	Automotive Basics	13039600 47655 2 credits	Up to 15 ASE Entry-Level Certifications	BHS LBHS
Automotive Technology II: Automotive Services (Level 4)	11-12	Automotive I	13039700 47660 2 credits	Up to 15 ASE Entry-Level Certifications	BHS LBHS
Practicum in Transportation Systems (Level 4)	12	Automotive II	13040450 47665 2 credits	Up to 15 ASE Entry-Level Certifications	BHS LBHS
Career Prep for Program of Study* (Level 4) (Related job required; 10 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701121 27505 2 credits		BHS LBHS BNT
Ext. Career Prep for Program of Study* (Level 4) (Related job required; 15 hrs/wk)	12	2+ courses for 2+ credits (with level 2 or higher course) in aligned POS	12701141 27515 3 credits		BHS LBHS BNT

*Course is included in additional programs of study.





A FOUNDATION FOR OPPORTUNITY

2024-2025 CTE COURSE DESCRIPTIONS

AGRICULTURE, FOOD, & NATURAL RESOURCES

Agricultural Technology & Mechanical Systems

Principles of Agriculture, Food, & Natural Resources

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

Agricultural Mechanics & Metal Technologies

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

Agricultural Structures Design & Fabrication

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

Agricultural Equipment Design & Fabrication

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

Practicum in Agriculture, Food, & Natural Resources

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills

related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Scientific Research & Design

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

AGRICULTURE, FOOD, & NATURAL RESOURCES

Animal Science

Principles of Agriculture, Food, & Natural Resources

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

Small Animal Management

In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings.

Equine Science

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Livestock Production

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Veterinary Medicine Applications

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

Advanced Animal Science

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need

opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Practicum in Agricultural, Food, & Natural Resources

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Scientific Research & Design

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

AGRICULTURE, FOOD, & NATURAL RESOURCES

Environmental & Natural Resources

Principles of Agriculture, Food, & Natural Resources

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

Wildlife, Fisheries, & Ecology

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua-crops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Range Ecology and Management

Range Ecology and Management is designed to develop students' understanding of rangeland ecosystems and sustainable forage production. To prepare for careers in environmental and natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to environmental and natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Practicum in Agricultural, Food, & Natural Resources

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Scientific Research & Design

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student

attainment of academic standards, and effectively prepares students for college and career success.

AGRICULTURE, FOOD, & NATURAL RESOURCES

Plant Science

Principles of Agriculture, Food, & Natural Resources

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

Landscape Design & Management

Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Turf Grass Management

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Greenhouse Operations & Production

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Floral Design

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding

of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Advanced Floral Design

Advanced Floral Design focuses on building advanced skills in floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event.

Advanced Plant & Soil

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Practicum in Agricultural, Food, & Natural Resources

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success,

students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Scientific Research & Design

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

ARCHITECTURE & CONSTRUCTION

Carpentry

Principles of Construction

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

Construction Technology I

In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Construction Technology II

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

Practicum in Construction Technology

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

ARCHITECTURE & CONSTRUCTION

Construction Management

Principles of Construction

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

Construction Management I

In Construction Management I, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management I includes the knowledge of design techniques and tools related to the management of architectural and engineering projects.

Construction Management II

In Construction Management II, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management II includes knowledge of

the design, techniques, and tools related to the management of architectural and engineering projects.

Practicum in Construction Management

Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Digital Communications

Principles of Arts, A/V Technology & Communications

Careers in the Arts, Audio/Video Technology, and Communications Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Professional Communications

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

A/V Production I

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products.

Digital Audio Technology I

Digital Audio Technology I was designed to provide students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets. Digital Audio Technology I does not replace Audio Video Production courses but is recommended as a single credit, co-curricular course with an audio production technical emphasis. This course can also be paired with Digital Media. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

A/V Production II + Lab

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, critical-thinking, problem-solving, and collaborative skills. This course may be implemented in an audio format or a format with both audio and video. Requiring a lab corequisite for the course affords necessary time devoted specifically to the production and post-production process.

Digital Audio Technology II

Digital Audio Technology II was designed to provide additional opportunities and skill sets for students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, and music production and live sound. Digital Audio Technology II does not replace Audio Video Production courses but is recommended as a single credit, co-curricular course with an audio production technical emphasis. This course can also be paired with Digital Media. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

Practicum in A/V Production

Careers in audio/video production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production II and its corequisite Audio/Video Production II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts,

Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Practicum in Digital Audio Technology

The Practicum of Digital Audio Technology course is the pinnacle experience for Digital Communications program graduates, focusing on digital audio and entertainment industry preparation. This holistic approach equips students with the essential skills and certifications for success in the dynamic digital audio and entertainment field.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Graphic Design & Interactive Media

Principles of Arts, A/V Technology & Communications

Careers in the Arts, Audio/Video Technology, and Communications Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Video Game Design

Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

Digital Media

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare

for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

Animation I

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.

Commercial Photography I

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

Graphic Design & Illustration I

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Animation II

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry.

Graphic Design & Illustration II

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced

technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.

Commercial Photography II + Lab

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Practicum in Animation

Careers in animation span all aspects of the arts, audio/video technology, and communications industry. Building upon the concepts taught in Animation II and its corequisite Animation II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Practicum in Commercial Photography

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Practicum in Graphic Design

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a

changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

BUSINESS, MARKETING & FINANCE

Accounting & Financial Services

Principles of Business, Marketing & Finance

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Business Information Management I

In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Money Matters

In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

Accounting I

In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and

its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Accounting II

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

Financial Analysis

In Financial Analysis, students will apply knowledge and technical skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.

Practicum in Business Management

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

BUSINESS, MARKETING & FINANCE

Business Management

Principles of Business, Marketing & Finance

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Business Information Management I

In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Business Information Management II

In Business Information Management II, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

Business Management

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Statistics & Business Decision Making

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make

business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Practicum in Business Management

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

BUSINESS, MARKETING & FINANCE

Entrepreneurship

Principles of Business, Marketing & Finance

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Business Information Management I

In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Entrepreneurship II

Students will work in close cooperation with local industry leaders, community members, and educators to develop ideas and objectives, complete a business model canvas, pitch to potential investors, register with governmental agencies, and develop brand identity. The goal and outcome of the course is to have a business launched by the end of the course or have the tools necessary to launch and operate a business.

Statistics & Business Decision Making

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Practicum in Business Management

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

CTE Project-Based Capstone

Career and Technical Education Project-Based Capstone is a course designed for students to develop and enhance essential skills while investigating real-world problems, issues, or interests. Students work independently or collaboratively with others within or across career clusters or programs of study. Students partner with mentor(s) or advisor(s) to develop a project. Students conduct research, compile findings, implement project activities appropriate to student contribution, and present their work to a relevant audience that may include industry experts. To attain academic success, students must

have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings to become productive and contributing members of society.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

BUSINESS, MARKETING & FINANCE

Marketing & Sales

Principles of Business, Marketing & Finance

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Digital Media

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

Virtual Business

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

Sports & Entertainment Marketing

Sports and Entertainment Marketing will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

Social Media Marketing

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

Advertising

Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Statistics & Business Decision Making

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Advanced Marketing

In Advanced Marketing, students will gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to solve problems related to marketing. This course covers technology, communication, and customer-service skills.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

EDUCATION & TRAINING

Teaching & Training

Principles of Education & Training

If the commissioner does not make the determination that instructional materials funding has been made available under this subsection, the commissioner shall determine no later than August 31 of each subsequent school year whether instructional materials funding has been made available. If the commissioner determines that instructional materials funding has been made available, the commissioner shall notify the State Board of Education and school districts that this section shall be implemented for the following school year.

Principles of Human Services

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

Child Development

Child Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

Instructional Practices

Instructional Practices is a field-based (practicum) course that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and perform other duties of teachers, trainers, paraprofessionals, or other educational personnel.

Practicum in Education & Training

Practicum in Education and Training is a field-based course that provides students with background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical

arrangements, and perform other duties of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

ENGINEERING

Drone (Unmanned Vehicle)

Robotics I

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

Robotics II

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Engineering Science

Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Digital Electronics

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of modern electronic devices such as cellular phones, digital audio players, laptop

computers, digital cameras, and high-definition televisions. The primary focus of Digital Electronics is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Introduction to Unmanned Aerial Vehicles (UAV)

The Introduction to Unmanned Aerial Vehicles (UAV) Flight course is designed to prepare students for entry-level employment or continuing degrees in piloting UAV operations. This course is designed to instruct students in UAV flight navigation, industry laws and regulations, and safety regulations.

Scientific Research & Design

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

ENGINEERING

Engineering Foundations

Gateway I (PLTW Design & Modeling + Automation & Robotics)

Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

Principles of Applied Engineering (PLTW Flight & Space + App Creators)

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team

to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

Introduction to Engineering Design (PLTW)

Project Lead the Way (PLTW) Introduction to Engineering Design (IED) is an Activity-Project-Problem-Based course designed to build on foundational engineering concepts with an emphasis on the application of modeling in the engineering design process to develop solutions. Students will work both individually and in teams with an engineering design process, applying math, science, and engineering standards to hands-on projects.

Robotics I

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

Engineering Science

Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Civil Engineering & Architecture (PLTW)

Civil Engineering and Architecture (CEA) is a course in the PLTW Engineering Program. In CEA students are introduced to important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software.

Robotics II

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Digital Electronics

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discrete voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and

has revolutionized the world of electronics. Digital electronics is the foundation of modern electronic devices such as cellular phones, digital audio players, laptop computers, digital cameras, and high-definition televisions. The primary focus of Digital Electronics is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Aerospace Engineering (PLTW)

In Project Lead the Way (PLTW) Aerospace Engineering, students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components, such as an airfoil, propulsion system, and a rocket. This course prepares students for college, a career, or the military by deepening their knowledge of aerospace concepts, developing students' problem-solving skills, transportable skills (such as communication and ethical reasoning), and exposing them to a variety of careers.

Scientific Research & Design

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

HEALTH SCIENCE

Biomedical Science

Principles of Health Science

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Principles of Biosciences

Principles of Bioscience provides an overview of biotechnology, bioengineering, and related fields. Topics related to genetics, proteins, and nucleic acids reinforce the applications of Biology content. Students will further study the increasingly important

agricultural, environmental, economic, and political roles of bioenergy and biological remediation; the roles of nanoscience and nanotechnology in biotechnology medical research; and future trends in biological science and biotechnology.

Medical Terminology

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Biotechnology I

In Biotechnology I, students will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques. Students will conduct laboratory and field investigations and make informed decisions using critical thinking, scientific problem solving, and the engineering design process. Students in Biotechnology I will study a variety of topics that include structures and functions of cells, nucleic acids, proteins, and genetics.

Anatomy & Physiology

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Medical Microbiology

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

Pathophysiology

The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Scientific Research & Design

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation

design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

HEALTH SCIENCE

Diagnostic & Therapeutic Services

Principles of Health Science

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Medical Terminology

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Disaster Response

Disaster Response includes basic training of students in disaster survival and rescue skills that improve the ability of citizens to survive until responders arrive. Students will learn how to make communities safer, stronger, and better prepared to respond to the threats of terrorism, crime, public health issues, and disasters of all kinds.

Health Science Theory

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

Anatomy & Physiology

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Medical Microbiology

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

Pathophysiology

The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Emergency Medical Technician—Basic

Emergency Medical Technician (EMT)—Basic instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service.

Practicum in Health Science (CCMA, CPCT, CPhT, Phlebotomy Technician)

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

HEALTH SCIENCE

Exercise Science, Wellness, and Restoration

Principles of Health Science

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Lifetime Nutrition and Wellness

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

Medical Terminology

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Health Science Theory

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Anatomy & Physiology

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Practicum in Health Science (CCMA, EMT—Basic)

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Principles of Health Science

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Medical Terminology

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Health Science Theory

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

Anatomy & Physiology

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Medical Microbiology

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

Pathophysiology

The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Practicum in Health Science (CCMA, CPCT, Phlebotomy Technician)

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

HOSPITALITY & TOURISM

Culinary Arts

Introduction to Culinary Arts

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

Culinary Arts

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Advanced Culinary Arts

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.

Practicum in Culinary Arts

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses,

and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

HUMAN SERVICES

Family & Community Services

Principles of Human Services

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

Professional Communications

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

Lifetime Nutrition & Wellness

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

Child Development

Child Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of

analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Family & Community Services

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

Counseling & Mental Health

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Practicum in Human Services

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

HUMAN SERVICES

Health & Wellness

Principles of Human Services

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

Lifetime Nutrition & Wellness

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

Child Development

Child Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Family & Community Services

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

Counseling & Mental Health

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Practicum in Human Services

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

INFORMATION TECHNOLOGY

Cybersecurity

Fundamentals of Computer Science

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn computational thinking, problem-solving, and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

Computer Science I

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through computational thinking and data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

AP Computer Science Principles

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems

through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

Internetworking Technologies I (Cisco)

In Internetworking Technologies I, students are prepared for a networking career by introducing them to how networks operate. This first course introduces architectures, models, protocols, and networking elements – understanding needed to support the operations and priorities of Fortune 500 companies to small innovative retail businesses.

AP Computer Science A

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Networking

In Networking, students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Internetworking Technologies II (Cisco)

In Internetworking Technologies II, students will focus on switching technologies and router operations that support small-to-medium business networks, including wireless local area networks (WLAN) and security concepts. Students in this course will demonstrate a deeper understanding of industry expectations by applying more advanced concepts in a practical lab situation that simulates the environment students might encounter in the workplace.

Cybersecurity Capstone

In the Cybersecurity Capstone course, students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.

Practicum in STEM (Science, Technology, Engineering, & Mathematics)

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Practicum in Information Technology

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

INFORMATION TECHNOLOGY

Information Technology Support & Services

Fundamentals of Computer Science

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn computational thinking, problem-solving, and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

Internetworking Technologies I (Cisco)

In Internetworking Technologies I, students are prepared for a networking career by introducing them to how networks operate. This first course introduces architectures, models, protocols, and networking elements – understanding needed to support the operations and priorities of Fortune 500 companies to small innovative retail businesses.

Internetworking Technologies II (Cisco)

In Internetworking Technologies II, students will focus on switching technologies and router operations that support small-to-medium business networks, including wireless

local area networks (WLAN) and security concepts. Students in this course will demonstrate a deeper understanding of industry expectations by applying more advanced concepts in a practical lab situation that simulates the environment students might encounter in the workplace.

CTE Project-Based Capstone

Career and Technical Education Project-Based Capstone is a course designed for students to develop and enhance essential skills while investigating real-world problems, issues, or interests. Students work independently or collaboratively with others within or across career clusters or programs of study. Students partner with mentor(s) or advisor(s) to develop a project. Students conduct research, compile findings, implement project activities appropriate to student contribution, and present their work to a relevant audience that may include industry experts. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings to become productive and contributing members of society.

Practicum in Information Technology

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

INFORMATION TECHNOLOGY

Networking Systems

Fundamentals of Computer Science

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn computational thinking, problem-solving, and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of

individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

Internetworking Technologies I (Cisco)

In Internetworking Technologies I, students are prepared for a networking career by introducing them to how networks operate. This first course introduces architectures, models, protocols, and networking elements – understanding needed to support the operations and priorities of Fortune 500 companies to small innovative retail businesses.

Computer Science I

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through computational thinking and data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

AP Computer Science Principles

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

Internetworking Technologies II (Cisco)

In Internetworking Technologies II, students will focus on switching technologies and router operations that support small-to-medium business networks, including wireless local area networks (WLAN) and security concepts. Students in this course will demonstrate a deeper understanding of industry expectations by applying more advanced concepts in a practical lab situation that simulates the environment students might encounter in the workplace.

Networking

In Networking, students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

CTE Project-Based Capstone

Career and Technical Education Project-Based Capstone is a course designed for students to develop and enhance essential skills while investigating real-world problems, issues, or interests. Students work independently or collaboratively with others within or across career clusters or programs of study. Students partner with mentor(s) or advisor(s) to develop a project. Students conduct research, compile findings, implement project activities appropriate to student contribution, and present their work to a relevant audience that may include industry experts. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings to become productive and contributing members of society.

Practicum in Information Technology

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

INFORMATION TECHNOLOGY

Programming & Software Development

Fundamentals of Computer Science

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn computational thinking, problem-solving, and reasoning skills that are the foundation of computer

science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

Computer Science I

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through computational thinking and data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

AP Computer Science Principles

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Computer Science II

If the commissioner does not make the determination that instructional materials funding has been made available under subsection (a) of this section, the commissioner shall determine no later than August 1 of each subsequent school year whether instructional materials funding has been made available. If the commissioner

determines that instructional materials funding has been made available, the commissioner shall notify the State Board of Education and school districts that this section shall be implemented for the following school year.

AP Computer Science A

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Practicum in Information Technology

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Practicum in STEM (Science, Technology, Engineering, & Mathematics)

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Scientific Research & Design

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

LAW & PUBLIC SERVICE

Fire Science

Principles of Law, Public Safety, Corrections, & Security

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

Disaster Response

Disaster Response includes basic training of students in disaster survival and rescue skills that improve the ability of citizens to survive until responders arrive. Students will learn how to make communities safer, stronger, and better prepared to respond to the threats of terrorism, crime, public health issues, and disasters of all kinds.

Anatomy & Physiology

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Counseling & Mental Health

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Emergency Medical Technician—Basic

Emergency Medical Technician (EMT)—Basic instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

LAW & PUBLIC SERVICE

Government & Public Administration

Principles of Government & Public Administration

Principles of Government and Public Administration introduces students to foundations of governmental functions and career opportunities within the United States and abroad. Students will examine governmental documents such as the U.S. Constitution, current U.S. Supreme Court and federal court decisions, and the Bill of Rights.

Political Science I

Political Science I introduces students to political theory through the study of governments; public policies; and political processes, systems, and behavior.

Political Science II

Political Science II uses a variety of learning methods and approaches to examine the processes, systems, and political dynamics of the United States and other nations. The dynamic component of this course includes current U.S. and world events.

Public Management & Administration

Public Management and Administration reviews actions and activities that governments and nonprofit administrations commonly use and that resemble private-sector management. Students will be introduced to management tools that maximize the effectiveness of different types and styles of administrators and affect the quality of life of citizens in the community.

Practicum in Local, State, & Federal Government

Students in the Practicum in Local, State, and Federal Government will concurrently learn advanced concepts of political science and government workings in the classroom setting and in the workplace. In addition, students will apply technical skills pertaining to government and public administration in a direct mentorship by individuals in professional settings such as government, public management and administration, national security, municipal planning, foreign service, revenue, taxation, and regulation.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

LAW & PUBLIC SERVICE

Law Enforcement

Principles of Law, Public Safety, Corrections, & Security

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

Law Enforcement I

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Law Enforcement II

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.

Forensic Science

Forensic Science is a survey course that introduces students to the application of science to law. Students learn terminology and procedures related to the collection and examination of physical evidence using scientific processes performed in a field or laboratory setting. Students also learn the history and the legal aspects of forensic science.

Counseling & Mental Health

In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Criminal Investigation

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and

tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

TRANSPORTATION, DISTRIBUTION & LOGISTICS

Automotive and Collision Repair

Automotive Basics

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Automotive Technology I: Maintenance & Light Repair

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Entrepreneurship I

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Automotive Technology II: Automotive Services

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems.

Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Practicum in Transportation Systems

Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.

Career Preparation for Program of Study

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.



A FOUNDATION FOR OPPORTUNITY

The mission of the BISD CTE program is to foster a spirit of curiosity and career exploration, ignite aspirations, and empower each and every student to envision and shape their futures.

District policy prohibits discrimination on the basis of race, color, national origin, sex, or handicap in its vocational programs, services, or activities, and provides equal access to the Boy Scouts and other designated youth groups as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

District policy also prohibits discrimination on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

Belton Independent School District will take steps to ensure that the lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Casandra Spearman, Title IX coordinator | 254.215.2078 | Casandra.spearman@bisd.net | 400 N. Wall Street, Belton, TX 76513