



Piper High Course Guide 2024-2025



THE ACADEMY OF

DESIGN, PRODUCTION & AVIATION



Are you curious about Aviation? Do you have interest in connecting new information technology to advanced machinery? Do you enjoy work with your hands, building and fixing things? Would you describe yourself as practical and logical? Are you interested in studying science, drafting, Robotics, aeronautics, woodworking or math? In the Design, Production and Aviation Academy, students have the opportunity to participate in hands-on, real world learning experiences that provide credentialing opportunities and prepare students for post-secondary opportunities.

#FUTUREREADY

ARCHITECTURE, DESIGN & PRODUCTION

A student in the Architecture, Design and Production sector can focus on design, production, or both. Students will form design, planning and management skills. These skills will prepare for careers in designing, building, restoring, or repairing structures such as buildings, homes, bridges, and machinery.

ENGINEERING

A student in the engineering sector studies the design, building and use of machines and structures. These inventions and designs help solve problems or achieve goals in a variety of fields. A career in engineering encompasses a variety of engineers such as mechanical, chemical, civil, electrical and geo-technical engineers.

MANUFACTURING

A student in the manufacturing sector studies the process of goods that are then distributed to businesses and customers. This process may be completed by skilled manual labor or by machine.

AERONAUTICS AND AVIATION

The Aeronautics and Aviation sector will introduce students to the physics of aviation, the mechanics and maintenance of aircraft, and the role of the aviation industry in facilitating all types of air travel from cargo transportation to commercial use. It will prepare students to support flight operations by becoming pilots, aviation mechanics, aerospace engineers, air traffic control specialists and more.

ANIMATION AND GAMING

Animation and gaming is creating movement and shapes and then applying art to produce animation and games.



THE ACADEMY OF DESIGN, PRODUCTION & AVIATION

Architecture, Design and Production Sector

ARCHITECTURE, DESIGN AND PRODUCTION SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Academy Prep: Career and Life Planning MS STEM Courses Gaming Artificial Intelligence Design and Modeling Automation and Robotics Flight and Space Computer Science for Innovators and Makers	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Architecture and Design			
	Drafting (0.5)	Drafting/CAD (1)	Architectural Design (1) Optional KCKCC TEC programs	Projects in CAD (0.5) Capstone Experience (1.0) Optional KCKCC TEC programs
	Production and Construction			
	Introduction to Industrial Tech (0.5)	Woodworking Principles (1)	Furniture and Cabinetry Fabrication (1) Optional KCKCC TEC programs	Capstone Experience (1.0) Optional KCKCC TEC programs
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Elective (3) <i>*Geometry in Construction recommended for Geometry credit</i>	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective <i>*Geometry in Construction recommended for Geometry credit</i>	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) <i>*SS Elective (0.5)</i> Elective <i>*required for Grad Class of 2026 and beyond</i>
Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information</u> Section of the Course Guide				

Academy Electives	Required Electives for Graduation
<i>Intro to Drawing and Design (0.5)</i> <i>Art 1 (0.5)</i> <i>Drawing (0.5)</i> <i>Drafting (0.5)</i> <i>Drafting/CAD (1)</i> <i>Advanced Drafting/CAD (1)</i> <i>Essentials of Fashion and Interior Design (0.5)</i> <i>Interior Design (0.5)</i> <i>Architecture Design (1)</i> <i>Hand and Power Tools (0.5)</i> <i>Intro to Engineering (1)</i> <i>Principles of Engineering (1)</i> <i>Computer Integrated Manufacturing (1)</i> <i>Robotics (1)</i> <i>Stagecraft (0.5)</i> <i>Technical Production (0.5)</i> <i>World Languages (1)</i>	Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>

ARCHITECTURE, DESIGN AND PRODUCTION #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers	
<ul style="list-style-type: none">RoboticsKU Engineering CompetitionMaking it in the Dotte Manufacturing Bus Tour	<ul style="list-style-type: none">OSHA CertificationKCKCC Technical Education Programs—refer to course guide for offeringsClient-Connected Projects and InternshipsSeal of Biliteracy	<ul style="list-style-type: none">Construction Science ArchitectureLandscape ArchitectureRegional and Community PlanningInterior Architecture and Production DesignEnvironmental and Community Development	<ul style="list-style-type: none">Construction WorkerArchitectural DesignerLandscape ArchitectArchitectural Consultant DesignerCommunity Planner	<ul style="list-style-type: none">CarpenterDrafterUrban PlannerHVACSheet Metal WorkerZoning and Planning Manager



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THE ACADEMY OF DESIGN, PRODUCTION & AVIATION

Engineering Sector

ENGINEERING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Academy Prep: Career and Life Planning	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Introduction to Engineering (1)	Principles of Engineering (1)	Computer Integrated Manufacturing (1)	Engineering Design and Development (1)
MS STEM Courses				Capstone Experience (1)
Gaming	Required Core and Elective Courses			
Artificial Intelligence	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective
Design and Modeling				
Automation and Robotics				
Flight and Space				
Computer Science for Innovators and Makers				
	*Geometry in Construction recommended for Geometry credit	*Geometry in Construction recommended for Geometry credit		*required for Grad Class of 2026 and beyond
	Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information</u> Section of the Course Guide			
Recommended Academy Electives		Required Electives for Graduation		
Aerospace Engineering (1) Intro to Drawing and Design (0.5) Intro to Industrial Technology (0.5) Drafting/CAD (1) Aviation Fundamentals (0.5) Computer Systems (1) Architecture Design (1) Advanced Drafting/CAD (1) Robotics (1) Stagecraft (0.5) World Languages (1)		Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5) (Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) *these would need to fill one of the Elective options listed in the Required Core and Elective Courses section		

ENGINEERING #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">RoboticsMaking it in the Dotte Manufacturing Bus TourKU Engineering Scholarship Competition	<ul style="list-style-type: none">Engineering Design and Development Capstone ProjectClient-Connected Projects and InternshipsCerner Scholars InternshipUSD 203 IT InternshipSeal of Biliteracy	<ul style="list-style-type: none">Civil EngineeringChemical EngineeringElectrical EngineeringIndustrial EngineeringBiomedical EngineeringComputer Engineering	<ul style="list-style-type: none">Software EngineerAgricultural EngineerBiomedical EngineerElectrical EngineerPetroleum EngineerMechanical EngineerMarine EngineerGeological EngineerEnvironmental EngineerDesign EngineerData EngineerAutomotive Engineer



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THE ACADEMY OF DESIGN, PRODUCTION & AVIATION

Manufacturing Sector

MANUFACTURING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
Academy Prep: Career and Life Planning MS STEM Courses Gaming Artificial Intelligence Design and Modeling Automation and Robotics Flight and Space Computer Science for Innovators and Makers	Production			
	<i>Introduction to Industrial Technology (.5)</i>	<i>Drafting/CAD (1)</i>	<i>Advanced Drafting/CAD (1)</i> Optional KCKCC TEC programs	Capstone Experience (1) Optional KCKCC TEC programs
	Maintenance			
	<i>Introduction to Industrial Technology (.5)</i>	<i>Drafting/CAD (1)</i>	KCKCC Electrical Engineering Technology Program	KCKCC Electrical Engineering Technology Program Capstone Experience (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (2) <i>*Geometry in Construction recommended for Geometry credit</i>	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective (2) <i>*Geometry in Construction recommended for Geometry credit</i>	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective <i>*required for Grad Class of 2026 and beyond</i>
Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section</u> of the Course Guide				

Recommended Academy Electives

Intro to Drawing and Design (0.5)
Architecture Design (1.0)
Robotics (1)
Intro to Engineering (1)
Principles of Engineering (1)
Computer Integrated Manufacturing (1)
Hand and Power Tools (0.5)
Stagecraft (0.5)
World Languages (1)

Required Electives for Graduation

Consumer Ed and Personal Finance (0.5)
 Fine Arts (1)
 Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics)
**these would need to fill one of the Elective options listed in the Required Core and Elective Courses section*

MANUFACTURING #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers	
<ul style="list-style-type: none"> Robotics KU Engineering Competition Making it in the Dotte Manufacturing Bus Tour 	<ul style="list-style-type: none"> OSHA Certification Client-connected projects and Internships Garmin Internship KCKCC Technical Education Program Seal of Biliateracy 	<ul style="list-style-type: none"> Operations Research Industrial Engineering Construction Manufacturing Welding Tooling Technology 	<ul style="list-style-type: none"> Assembler Woodworker Carpenter Warehouse Worker Welder Manufacturing Technician Quality Control Inspector Mechanical Engineer 	<ul style="list-style-type: none"> Assembly Supervisor Distribution Manager Plant Manager Operations Manager Electrician



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THE ACADEMY OF DESIGN, PRODUCTION & AVIATION

Animation and Gaming Sector

ANIMATION AND GAMING SECTOR SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
Academy Prep: <i>Career and Life Planning</i>	<i>Computing Systems (1)</i> <i>Intro to Drawing and Design (0.5)</i>	<i>Animation (1)</i> <i>Art 1 (0.5)</i>	<i>Game Design and Authoring for the Web (1)</i> <i>Art 2 (0.5)</i> <i>Drawing (0.5)</i>	<i>Particular Topics in Media Technology (1)</i> <i>Capstone Experience (1)</i>
MS STEM Courses Gaming Artificial Intelligence Design and Modeling Automation and Robotics Flight and Space Computer Science for Innovators and Makers	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (0.5) <i>*Geometry in Construction recommended for Geometry credit</i>	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective <i>*Geometry in Construction recommended for Geometry credit</i>	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) <i>*SS Elective (0.5) Elective</i> <i>*required for Grad Class of 2026 and beyond</i>
<i>Career and Technical Education (CTE) Courses are italicized</i> <i>CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide</i>				

Recommended Academy Electives	Required Electives for Graduation
Graphic Design Fundamentals (0.5) Graphic Design (1) Photo Imaging(0.5) Photography (1) Advanced Photography (1) Robotics (1) Stagecraft (0.5) Technical Production (0.5) World Languages (1)	Consumer Ed and Personal Finance(0.5) Fine Arts (1) Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>

ANIMATION AND GAMING #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> E-Sports Piper Graphics 	<ul style="list-style-type: none"> IT Internship for USD 203 Java Certification Seal of Biliteracy 	<ul style="list-style-type: none"> Computer Animation 3D Modeling and Animation 	<ul style="list-style-type: none"> Animation Director Game Artist Character Animator Game Designer



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THE ACADEMY OF DESIGN, PRODUCTION & AVIATION

Aeronautics and Aviation Sector

AERONAUTICS AND AVIATION SECTOR SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
Academy Prep: Career and Life Planning MS STEM Courses Gaming Artificial Intelligence Design and Modeling Automation and Robotics Flight and Space Computer Science for Innovators and Makers	Aeronautical Engineering			
	Introduction to Engineering (1) Aviation Fundamentals (.5)	Principles of Engineering (1)	Aerospace Engineering (1) Computer Integrated Manufacturing (1)	Engineering Design and Development (1) Capstone Experience (1)
	Avionics			
	Introduction to Industrial Technology (.5)	Aviation Fundamentals (.5)	KCKCC Electrical Engineering Technology Program	KCKCC Electrical Engineering Technology Program Capstone Experience (1) Garmin Internship (4) and/or Unmanned Aircraft Systems (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (0.5) <i>*Geometry in Construction recommended for Geometry credit</i>	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective <i>*Geometry in Construction recommended for Geometry credit</i>	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective <i>*required for Grad Class of 2026 and beyond</i>
Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide				

Recommended Academy Electives

Intro to Drawing and Design (0.5)
 Computing Systems (1)
 Robotics (1)
 Introduction to Industrial Technology (0.5)
 Drafting/CAD (1)
 Introduction to Engineering Design (1)
 Principles of Engineering (1)
 Aerospace Engineering (1)
 Computer Integrated Manufacturing (1)
 Engineering Design and Development (1)
 Aviation Fundamentals (0.5)
 Hand and Power Tools (0.5)
 Unmanned Aircraft Systems (1)
 World Languages (1)

Required Electives for Graduation

Consumer Ed and Personal Finance(0.5)
 Fine Arts (1)
 Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics)
 *these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

AERONAUTICS AND AVIATION #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers	
<ul style="list-style-type: none"> Robotics 	<ul style="list-style-type: none"> Red Tail Academy KCKCC Dual Credit OSHA Certification Garmin Internship Seal of Biliateracy 	<ul style="list-style-type: none"> Aviation Design Flight Engineering Electronics Technician 	<ul style="list-style-type: none"> Pilot Unmanned Aircraft Pilot Aerospace Engineer Avionics Technician Flight Attendant 	<ul style="list-style-type: none"> Electronics Technician Air Traffic Control



#FUTUREREADY



THE ACADEMY OF BUSINESS, ENTREPRENEURSHIP & INNOVATION



BUSINESS & FINANCIAL PLANNING

The sector of Business Finance emphasizes the role of financial analysts and financial managers in preserving the financial health of a company or industry. Responsibilities of a career in finance may include allocating resources to various functions of a firm, preparing budgets and plans to finance debt and projecting economic variables to a firm.

HUMAN RESOURCES & SPORTS MANAGEMENT

The Business Management sector is dedicated to the coordination and execution of business activities by a firm in order to achieve their objectives. Students in business management study the mechanisms of how a business operates and practice the leadership required in planning and directing business initiatives in order to maximize productivity.

ENTREPRENEURSHIP

An entrepreneur performs similar tasks as a business manager, but instead through innovation and development of products or services with their own company. Entrepreneurs lead the establishment of their company and control its growth from a small startup to a sizable company. The creation of a company comes with overall development, marketing, legal and financial synopsis in order to be successful and strategic..

SALES & MARKETING

The work of a marketer involves all activities that promote a company and their products or services. A student in the Marketing sector learns about the decision-making process of a business in order to best engage with its targeted audience.



Have you watched too much Shark Tank and envision your future-self working for or leading a business? The Academy of Business, Entrepreneurship, and Innovation provides students with a strong understanding of business operations in order to pursue a career in the business sector of the economy. Through class study and management of school businesses, students in the sector are prepared for post-graduate studies and careers for many business operations including finance, management, marketing strategy, planning and consulting. Students can participate in internships to gain meaningful knowledge of businesses they have interest in exploring.

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THE ACADEMY OF BUSINESS, ENTREPRENEURSHIP & INNOVATION

Business and Financial Planning Sector

BUSINESS AND FINANCIAL PLANNING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	<i>Business Essentials (0.5)</i>	<i>Accounting (1)</i>	<i>Advanced Accounting (1)</i>	Capstone Experience (1)
	<i>*Business Communications (0.5) - 9th or 10th</i>	<i>*Business Communications (0.5) - 9th or 10th</i>	<i>Consumer Education and Personal Finance (0.5)</i>	
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) <i>*SS Elective (0.5)</i> Elective <i>*Required for Grad Class of 2026 and beyond</i>
Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section</u> of the Course Guide				

Academy Electives

**Intro to Business and Entrepreneurship (0.5)*
**Microeconomics (0.5)*
 Economics (0.5)
 Entrepreneurship (0.5)
 Business Management (0.5)
 Applied Business Development (1)
 Principles of Marketing (1)
 Sports and Entertainment Marketing (0.5)
 Marketing Applications (1)
 World Languages (1)
**Dual credit via Baker University*

Required Electives for Graduation

Consumer Education and Personal Finance (0.5)
**this is also required for Academy completion*

Fine Arts (1)

**recommended to take Business in Music for 0.5 of your required Fine Arts credit*

**these would need to fill one of the Elective options listed in the Required Core and Elective Courses section*

BUSINESS AND FINANCIAL PLANNING #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> DECA SHIP Week 	<ul style="list-style-type: none"> QuickBooks Certification Pirate's Bay NFM Client-Connected Project Dual Credit Social Media Certification Seal of Biliteracy 	<ul style="list-style-type: none"> Finance Economics Business Accounting Business Admin and Management Insurance Actuary Science Statistics 	<ul style="list-style-type: none"> Financial Analyst Investment Banking Banker Accountant Actuary Financial Director



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THE ACADEMY OF BUSINESS, ENTREPRENEURSHIP & INNOVATION

Human Resources and Sports Management Sector

HUMAN RESOURCES AND SPORTS MANAGEMENT SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
REQUIRED Academy Prep: Career & Life Planning	Human Resources			
	<i>Business Essentials (0.5)</i> <i>Business Management (0.5)</i> <i>*Business Communications (0.5) - 9th or 10th</i>	<i>Event Planning and Management (0.5)</i> <i>*Business Communications (0.5) 9th or 10th</i>	<i>Applied Business Development (1)</i> <i>Consumer Education and Personal Finance (0.5)</i>	<i>Applied Business Development (1)</i> <i>Capstone Experience (1)</i>
	Sports Management			
	<i>Business Essentials (0.5)</i> <i>Business Management (0.5)</i> <i>*Business Communications (0.5) - 9th or 10th</i>	<i>Intro to Recreational Sports (0.5) and/or Strength & Cond (1)</i> <i>Principles of Marketing (1)</i> <i>*Business Communications (0.5) -9th or 10th</i>	<i>Sports/Entertainment Marketing (0.5)</i> <i>Consumer Education and Personal Finance (0.5)</i>	<i>Marketing Applications (1)</i> <i>Capstone Experience (1)</i>
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) World Studies (1) CORE (0.5) PE/Health (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) Government (1) Academy Elective (1) *SS Elective (0.5) Elective <i>*Required for Grad Class of 2026 and beyond</i>
	Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide			

Academy Electives	Required Electives for Graduation
<i>*Intro to Business and Entrepreneurship (0.5)</i> <i>*Microeconomics (0.5)</i> <i>Accounting (1)</i> <i>Advanced Accounting (1)</i> <i>Economics (0.5)</i> <i>Event Planning and Management (0.5)</i> <i>Marketing Applications (1)</i> <i>Area of Business Concentration</i> <i>World Languages (1)</i> <i>*Dual credit via Baker University</i>	Consumer Education and Personal Finance (0.5) <i>*this is also required for Academy completion</i> Fine Arts (1) <i>*recommended to take Business in Music for 0.5 of your required Fine Arts credit</i> <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>

HUMAN RESOURCES AND SPORTS MANAGEMENT #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> DECA SHIP Week 	<ul style="list-style-type: none"> Pirate's Bay NFM Client-Connected Project Seal of Biliteracy Dual Credit Social Media Certification 	<ul style="list-style-type: none"> Business Admin and Management (General) Human Resource Management Sports Management 	<ul style="list-style-type: none"> Manager/Executive Recruiter Entrepreneur Human Resources Specialist Guest Services Specialist Sales/Marketing Director Human Resources Coordinator Event and Operations Coordinator



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THE ACADEMY OF BUSINESS, ENTREPRENEURSHIP & INNOVATION

Entrepreneurship Sector

ENTREPRENEURSHIP SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	<i>Business Essentials (0.5)</i>	<i>Entrepreneurship (0.5)</i>	<i>Applied Business Development (1)</i>	<i>Advanced Business Development and Entrepreneurship (1)</i>
	<i>Business Management (0.5)</i>	<i>Principles of Marketing (1)</i>	<i>Consumer Education and Personal Finance (0.5)</i>	<i>Capstone Experience (1)</i>
	<i>*Business Communications (0.5) - 9th or 10th</i>	<i>*Business Communications (0.5) 9th or 10th</i>		
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Elective (1)	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective <i>*Required for Grad Class of 2026 and beyond</i>
Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section</u> of the Course Guide				

Recommended Academy Electives

*Intro to Business and Entrepreneurship (0.5)
 *Microeconomics (0.5)
 Accounting (1)
 Advanced Accounting (1)
 Economics (0.5)
 Marketing Applications (1)
 Graphic Design Fundamentals (0.5)
 Graphic Design (1)
 Area of Business Concentration (IT, Restaurant Management, Residential Carpentry, Cosmetology, Personal Training, etc.)
 World Languages (1)
 *Dual credit via Baker University

Required Electives for Graduation

Consumer Education and Personal Finance (0.5)
 *this is also required for Academy completion
 Fine Arts (1)
 *recommended to take Business in Music for 0.5 of your required Fine Arts credit
 *these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

ENTREPRENEURSHIP #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> DECA SHIP Week 	<ul style="list-style-type: none"> Pirate's Bay B NFM Client-Connected Project Dual Credit Social Media Certification Seal of Biliteracy 	<ul style="list-style-type: none"> Business Admin and Management (General) Marketing Economics Statistics Data Analytics Organizational Leadership 	<ul style="list-style-type: none"> Business Analyst Manager/Executive Entrepreneur Consultant Project Manager Sales/Marketing Director Venture Capital Analyst Human Resources Coordinator



#FUTUREREADY



THE ACADEMY OF BUSINESS, ENTREPRENEURSHIP & INNOVATION

Sales and Marketing Sector

SALES AND MARKETING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career & Life Planning	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	<i>Business Essentials (0.5)</i> <i>Business Communications (0.5)</i>	<i>Principles of Marketing (1)</i> <i>Entrepreneurship (0.5)</i>	<i>Marketing Applications (1)</i> <i>Consumer Education and Personal Finance (0.5)</i>	<i>Capstone Experience (1)</i>
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Elective (2.5)	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective *Required for Grad Class of 2026 and beyond
	Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide			

Recommended Academy Electives

*Intro to Business and Entrepreneurship (0.5)
 *Microeconomics (0.5)
 Sports and Entertainment Marketing (0.5)
 Accounting (1)
 Advanced Accounting (1)
 Graphic Design Fundamentals (0..5)
 Graphic Design (1)
 Economics (0.5)
 Area of Business Concentration (IT, Restaurant Management, Residential Carpentry, etc.)
 World Languages (1)
 *Dual credit via Baker University

Required Electives for Graduation

Consumer Education and Personal Finance (0.5)
 *this is also required for Academy completion

Fine Arts (1)

*recommended to take Business in Music for 0.5 of your required Fine Arts credit

*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

SALES AND MARKETING #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> DECA SHIP Week 	<ul style="list-style-type: none"> Pirate's Bay Piper Graphics NFM Client-Connected Project USD 203 Marketing Needs Dual Credit Seal of Bilingual 	<ul style="list-style-type: none"> Advertising Marketing Research Public Relations Sales Management Business Marketing Business Administration 	<ul style="list-style-type: none"> Market Research Analyst Search Engine Optimization (SEO) Pay-Per-Click Advertising (PPC) Digital Marketing Analyst Content Writing Graphic Design Social Media Marketing Manager Product Marketing Manager



#FUTUREREADY



THE ACADEMY OF ARTS & MEDIA



Are you creative? Do you love photography? Do you love painting, sculpting, or drawing? Do you love designing content for social media platforms? Are you interested in sharing the news? Do you love creating visual communications? Are you interested in music, dance, theater, band, or choir? Are you interested in debate, forensics, or poetry? The Academy of Arts and Media offers a variety of courses that allow students to express themselves and the thoughts of others through various means of digital platforms, investigate their passion as it connects to their future career, and to improve emotional expression.

#FUTUREREADY

PERFORMING ARTS

Students in the Performing Arts sector have a passion for performing for an audience through dance, drama, or music. Students in this sector practice their creative art while also learning techniques to most effectively express their creative personality on the stage.

VISUAL ARTS

The sector of Visual Arts provides students experience in producing various forms of visual art using techniques such as ceramics, drawing, painting, sculpture, printmaking, or graphic design. Students are challenged to sharpen their creative skills in this sector by learning to think critically about their object's intended message and mastering techniques used in the crafting process.

DIGITAL MEDIA

In the Digital Media sector, multiple mediums and platforms of journalism will be used in order to effectively share a message or tell a story. Students will learn how to effectively curate publications using a combination of these mediums so that multiple elements of the story are able to be shared in the most effective outlet.

GRAPHIC DESIGN

Graphic design challenges students to creatively apply design skills and techniques in order to effectively communicate a message. Through this sector, students will also participate in the student-led t-shirt design and production business.



THE ACADEMY OF ARTS & MEDIA

Performing Arts Sector

PERFORMING ARTS SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning MS Course Recommendations Drama Speech Vocal Music Band Music and Media	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Vocal			
	Concert Choir (1)	Concert Choir, Bella Voce, or Music-N-Motion (1) Business in Music (0.5)	Music Theory A (1) Concert Choir, Bella Voce, Music-N-Motion and/or Repertory Theater (1)	Music Theory B (1) Concert Choir, Bella Voce, Music-N-Motion and/or Repertory Theater Capstone Experience (1)
	Instrumental			
	Marching Band and/or Jazz Band (1)	Marching Band and/or Jazz Band (1) Business in Music (0.5)	Marching Band and/or Jazz Band (1)	Marching Band and/or Jazz Band (1) Capstone Experience (1)
	Performing			
	Theatre 1 and/or Debate 1 Forensics 1	Repertory Theater and/or Debate 2 Forensics 2 Business Music	Repertory Theater and/or Debate 3 and/or Forensics 3	Repertory Theater and/or Debate 4 and/or Forensics 4 Capstone Experience
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) <i>*required for Grad Class of 2026 and beyond</i>
CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide				

Academy Electives

Road to Rock (0.5)
 Stagecraft (0.5)
 Technical Production (0.5)
 Teaching and Training Courses for Music Education
 Behavioral Science Courses for Music Therapy
 World Languages (1)

Required Electives for Graduation

Consumer Ed and Personal Finance (0.5)
 Fine Arts (1)
 Communications (0.5) (Oral Comm, College Public Speaking, Business Comm Debate, or Forensics)
**these would need to fill one of the Elective options listed in the Required Core and Elective Courses section*

PERFORMING ARTS #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers	
<ul style="list-style-type: none"> School Musical School Play Tri-M Honors Society Debate Team Forensics Team 	<ul style="list-style-type: none"> Music Theory B USD 203 Teaching Internship Backstage Intensive with Kauffman Center for the Performing Arts Technical Theatre Lights Crew Seal of Biliteracy 	<ul style="list-style-type: none"> Film Production Dance Music Musical Theatre English Design and Stagecraft Music Business Music Education Music Performance 	<ul style="list-style-type: none"> Actor Dancer Theatre Director Arts Administrator Musical Theatre Performer Stage Manager Screenwriter Drama Therapist Musician 	<ul style="list-style-type: none"> Music Therapist Sound Technician Music Producer Music Director Conductor Music Teacher Instrumental or Vocal Coach



#FUTUREREADY



THE ACADEMY OF ARTS & MEDIA

Visual Arts Sector

VISUAL ARTS SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning MS Course Recommendations Art Dimensions Art Concepts Sculpture	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Intro to Drawing and Design (0.5) Art 1 (0.5)	Art 2 (0.5) Drawing (0.5)	Ceramics and Sculpture (0.5) and/or Painting (0.5)	Capstone Experience (1) Ceramics and Sculpture 2 (0.5) Studio Studies and/or Senior Portfolio (1)
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Elective (2.5)	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) *required for Grad Class of 2026 and beyond
	Required Core and Elective Courses			
	CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section of the Course Guide</u>			

Academy Electives	Required Electives for Graduation
Essentials of Fashion and Interior Design (0.5) Interior Design (0.5) Drafting (0.5) Architectural Design (0.5) Apparel Production 1 (0.5) Apparel Production 2 (0.5) FAID Studio (1.0) Animation (0.5) Game Design and Authoring of the Web (0.5) Graphic Design Fundamentals (0.5) Graphic Design (1) Principles of Marketing (1) Marketing Applications (1) Photography (0.5) Advanced Photography (1) Drawing (0.5) Painting (0.5) Ceramics and Sculpture 1 (0.5) Ceramics and Sculpture 2 (0.5) Business in Music (0.5) World Languages (1)	Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5 - Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) *these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

VISUAL ARTS #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">Technical TheatreSHIP WeekYearbook Photographer	<ul style="list-style-type: none">District Client-Connected Art projectsUSD 203 Teaching InternshipSeal of BiliteracyPiper Graphics TeamAdobe Certification	<ul style="list-style-type: none">Art HistoryArts ManagementCommercial ArtApplied ArtCriticism and ConservationArt Education	<ul style="list-style-type: none">Graphic DesignerPhotographerInterior DesignerFashion DesignerSet DesignerSculptorArts Administrator



#FUTUREREADY



THE ACADEMY OF ARTS & MEDIA

Digital Media Sector

DIGITAL MEDIA SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning MS Course Recommendations Art Dimensions Art Concepts Journalism Speech Broadcasting Computer Science	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Student News: Yearbook			
	Business Essentials (0.5) 21st Century Journalism (0.5)	Intro to Drawing & Design(.5) AND Graphic Design Fundamentals (0.5) OR Photo Imaging (0.5)	Digital Media Design and Production (1)	Digital Media Project Management (1)
	Broadcasting			
	Business Essentials (0.5) 21st Century Journalism (0.5)	Audio/Video Production Fundamentals (0.5)	Video Production (1)	Digital Media Design and Production/Video Production (1)
	Photography			
	Photo Imaging (0.5)	Photography (0.5)	Advanced Photography (1)	Project Management (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) *Required for Grad Class of 2026 and beyond
CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide				
Academy Electives			Required Electives for Graduation	
Intro to Drawing and Design (0.5) Graphic Design Fundamentals (0.5) Graphic Design (1) Principles of Marketing (1) Business Management (0.5) Applied Business Development (1) Music in Business (0.5) World Languages(1)			Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5 - Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) *these would need to fill one of the Elective options listed in the Required Core and Elective Courses section	

DIGITAL MEDIA #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">Kansas Scholastic Press AssociationColumbia Scholastic Press AssociationNational Scholastic Press AssociationBest of SNO	<ul style="list-style-type: none">CTE ScholarsThe Pirate YearbookKCPN Broadcasting and MultimediaPiper Photos Portraits and Event PhotographySeal of Biliteracy	<ul style="list-style-type: none">PhotographyMultimedia ArtFilm and ProductionMarketing	<ul style="list-style-type: none">Social Media ManagerVisual JournalistAdvertising ProfessionalMarketing SpecialistVideographerBook/Publications EditorGraphic Designer



#FUTUREREADY



THE ACADEMY OF ARTS & MEDIA

Graphic Design Sector

GRAPHIC DESIGN SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning MS Course Recommendations Art Dimensions Art Concepts Sculpture Computer Science Exploration	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Intro to Drawing and Design (0.5) Graphic Design Fundamentals (0.5) Business Communications (0.5) - 9th or 10th	Graphic Design (1)	Graphic Design Project Management (1) *Piper Graphics	Media Technology-Workplace Experience (1) *Piper Graphics
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Elective (2.5)	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) *required for Grad Class of 2026 and beyond
	CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section</u> of the Course Guide			

Academy Electives	Required Electives for Graduation
Photo Imaging (0.5) Photography (0.5) Advanced Photography (1) Art 1 (0.5) Art 2 (0.5) Drawing (0.5) Audio Video Production Fundamentals (0.5) Video Production (1) Business Essentials (0.5) Entrepreneurship (0.5) Applied Business Development (1) Principles of Marketing (1) Marketing Applications (1) World Languages (1)	Consumer Ed and Personal Finance (0.5) Fine Arts (1) *these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

GRAPHIC DESIGN #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">Piper Graphics	<ul style="list-style-type: none">Piper GraphicsGraphic Design InternshipAdobe CertificationSeal of Biliteracy	<ul style="list-style-type: none">Art HistoryArts ManagementCommercial ArtApplied ArtCriticism and Conservation	<ul style="list-style-type: none">Graphic DesignerPhotographerInterior DesignerFashion DesignerSet DesignerAdvertising Professional



#FUTUREREADY



THE ACADEMY OF HUMAN SERVICES



Do you have a passion for enriching the lives of others and understanding the needs of families or communities? Are you compelled to learn about the human mind and investigate mental health? Have you been inspired by culinary shows like Top Chef and you want a career in the restaurant industry? Have you dreamed of designing a clothing line or working with families on interior home designs? The Human Services sectors provide a variety of learning opportunities in food and food safety, human nutrition, family economic decisions, child life and development, parenting, mental health, and event planning and fashion.

#FUTUREREADY

FASHION AND INTERIOR DESIGN

The sector of fashion and interior design is driven by social lifestyle, culture, economic behavior, art and expression. A student in this sector explores the intersection of aesthetics and individual creativity to produce designs. Projects in these courses may include from producing clothing designs to staging designs.

RESTAURANT AND EVENT MANAGEMENT

A student in the Restaurant and Event Management sector develops skills needed to successfully coordinate and direct resources in order to assure a restaurant or event runs smoothly and efficiently. This sector emphasizes an understanding of culinary practices as well as the development of leadership skills used in interacting with both staff and customers. Students in this sector complete their studies by working directly with the community on projects and events in order to accomplish goals set individually by the student.

TRAVEL AND TOURISM

The Travel and Tourism sector studies the management of travel services for consumers. Examples of travel services and entities include destinations, attractions, airlines, cruise lines, museums, cultural institutions and booking-related services. A student in this sector learns and practices the management and hospitality skills necessary to execute the day-to-day tasks of a career in this sector.

FAMILY AND BEHAVIORAL SCIENCE

Students in this sector will gain an understanding for child and human development, family relations, psychology, mental health, and social services. Students who choose this pathway could potentially work in psychology, marriage and family therapy, counseling, social services, youth court advocates, community engagement, or for a non profit organization.



THE ACADEMY OF HUMAN SERVICES

Fashion and Interior Design Sector

FASHION AND INTERIOR DESIGN SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning MS Courses FACS Design and Modeling Art Concepts Art Dimensions Sculpture	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Fashion and Apparel			
	<i>Essentials of Fashion and Interior Design (0.5)</i> <i>Intro to Drawing (0.5)</i>	<i>Apparel Production 1 (0.5)</i>	<i>Apparel Production 2 (0.5)</i> <i>Fashion Trends (0.5)</i>	<i>Capstone Experience (1)</i> <i>FAID Studio (1)</i> <i>and/or</i> <i>Career Connections (1)</i>
	Interior Design			
	<i>Essentials of Fashion and Interior Design (.5)</i> <i>*Drafting (0.5)</i> <i>*can be taken 9th and 10th grades</i>	<i>Interior Design (0.5)</i> <i>*Drafting (0.5)</i> <i>*can be taken 9th and 10th grades</i>	<i>Architecture Design (1)</i>	<i>Capstone Experience (1)</i> <i>FAID Studio (1)</i> <i>and/or</i> <i>Career Connections (1)</i>
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) <i>*SS Elective (0.5)</i> Elective <i>*required for Grad Class of 2026 and beyond</i>
<i>Career and Technical Education (CTE) courses are italicized</i> <i>CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide</i>				

Academy Electives

Drawing (0.5)
Art 2 (0.5)
Painting (0.5)
Ceramics/Sculpture (0.5)
Technical Theatre (0.5)
Business Essentials (0.5)
Business Management (0.5)
Applied Business Development (1)
Principles of Marketing (1)
Graphic Design Fundamentals (0.5)
Graphic Design (1)
Piper Graphics (1)
World Languages (1)

Required Electives for Graduation

Consumer Ed and Personal Finance (0.5)
Fine Arts (1)
Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics)

**these would need to fill one of the Elective options listed in the Required Core and Elective Courses section*

FASHION AND INTERIOR DESIGN #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">Family Career and Community Leaders of America	<ul style="list-style-type: none">FAID Studio Capstone ExperienceSeal of Biliteracy	<ul style="list-style-type: none">Fashion DesignFashion MerchandisingInterior DesignFashion StudiesApparel Design and Product DevelopmentInterior Design	<ul style="list-style-type: none">Interior DesignerFurnishings CoordinatorFashion IllustratorTextile DesignerFashion DesignerSet/Exhibit DesignerVisual MerchandiserInterior ArchitectMerchandise ManagerBuyer



#FUTUREREADY



THE ACADEMY OF HUMAN SERVICES

Restaurant and Event Management Sector

RESTAURANT AND EVENT MANAGEMENT SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning MS Courses FACS	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Culinary Essentials (0.5) <i>*If Career and Life Planning wasn't taken, then Business Essentials is needed.</i>	Culinary Arts 1 (1) Baking & Pastry 1 (0.5)	Culinary Arts 2 (0.5) Baking and Pastry 2 (0.5) Event Planning and Management (0.5) Optional KCKCC Culinary Program	Culinary Workplace Experience (1) Capstone Experience (1) Optional KCKCC Culinary Program
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) Government (0.5) Academy Elective (1) SS Elective(0.5) Elective <i>*required for Grad Class of 2026 and beyond</i>
Career and Technical Education (CTE) courses are italicized CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide				

Academy Electives

Nutrition and Wellness (0.5)
Business Essentials (0.5)
Entrepreneurship (0.5)
Business Management (0.5)
Applied Business Development (1)
Foundations of Hospitality and Lodging (0.5)
Principles of Marketing (1)
Marketing Applications (1)
World Languages (1)

Required Electives for Graduation

Consumer Ed and Personal Finance (0.5)
Fine Arts (1)
Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics)

**these would need to fill one of the Elective options listed in the Required Core and Elective Courses section*

RESTAURANT AND EVENT MANAGEMENT #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">Family Career and Community Leaders of AmericaPHS Culinary Team	<ul style="list-style-type: none">Summer Culinary InternshipUSD 203 Internship with Food ServicesKCKCC Culinary ProgramServSafe CertificationSeal of Biliiteracy	<ul style="list-style-type: none">Hotel Restaurant and Event ManagementEvent ManagementRestaurant ManagementTourism, Hospitality and Event ManagementCulinary ArtsPastry ArtsEntrepreneurshipPublic Health	<ul style="list-style-type: none">Conference Center ManagerEvent ManagerHotel ManagerOutdoor Activities/Education ManagerPublic House ManagerRestaurant ManagerChef



#FUTUREREADY



THE ACADEMY OF HUMAN SERVICES

Travel and Tourism Sector

TRAVEL AND TOURISM SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning MS Courses FACS	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Business Essentials (0.5)	Event Planning and Management (0.5) Foundations of Travel and Tourism (0.5)	Entrepreneurship (0.5) Foundations of Hospitality and Lodging (0.5)	Capstone Experience (1) Hospitality and Lodging Management (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Government (0.5) Academy Elective (1) SS Elective (0.5) Elective <i>*required for Grad Class of 2026 and beyond</i>
Career and Technical Education (CTE) courses are italicized CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide				

Academy Electives	Required Electives for Graduation
Culinary Essentials (0.5) Nutrition and Wellness (0.5) Business Essentials (0.5) Business Management (0.5) Applied Business Development (1) Principles of Marketing (1) Marketing Applications (1) World Languages (1)	Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>

TRAVEL AND TOURISM #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> Family Career and Community Leaders of America PHS Culinary Team 	<ul style="list-style-type: none"> Summer Culinary Internship USD 203 Internship with Food Services KCK Tourism Bureau ServSafe Certification Seal of Biliiteracy 	<ul style="list-style-type: none"> Hotel Restaurant and Event Management Event Management Restaurant Management Tourism, Hospitality and Event Management 	<ul style="list-style-type: none"> Hotel Manager Public House Manager Restaurant Manager Flight Attendant Lodging Manager Recreation Worker Food Service Manager Meeting, Convention, and Event Planner Sales Manager Advertising, Promotions and Marketing Manager



#FUTUREREADY



THE ACADEMY OF HUMAN SERVICES

Family and Behavioral Science Sector

FAMILY AND BEHAVIORAL SCIENCE SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED Academy Prep: Career & Life Planning MS Courses FACS	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Human Growth and Development (0.5) Nutrition and Wellness (0.5)	Family Studies (0.5) Lifespan Development (0.5)	Psychology (0.5) Sociology (0.5) or College Sociology (0.5)	AP Psychology (1) or College Psych (0.5) Career or Community Connections (1) Capstone Experience (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective <i>*required for Grad Class of 2026 and beyond</i>
Career and Technical Education (CTE) courses are italicized CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information</u> Section of the Course Guide				

Academy Electives

Business Essentials (0.5)
Entrepreneurship (0.5)
Introduction to Healthcare (0.5)
Medical Terminology (0.5)
Culinary Essentials (0.5)
World Languages (1)

Required Electives for Graduation

Consumer Ed and Personal Finance (0.5)
Fine Arts (1)
Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics)

**these would need to fill one of the Elective options listed in the Required Core and Elective Courses section*

FAMILY AND BEHAVIORAL SCIENCE #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">Family Career and Community Leaders of America	<ul style="list-style-type: none">Community InternshipSeal of Biliteracy	<ul style="list-style-type: none">Social WorkHuman DevelopmentFamily and Consumer SciencesHumanitiesSpeech and Language PathologyEarly Childhood EducationApplied Behavioral SciencesPsychology or Sociology	<ul style="list-style-type: none">Community Services DirectorAdult and Child Day Care CoordinatorVolunteer CoordinatorSocial Services WorkerSocial PsychologistPsychologistCounselorSociologistEmployment CounselorResidential AdvisorEmergency and Relief WorkerFamily and Consumer Sciences TeacherSocial WorkerYouth Services Counselor



#FUTUREREADY



THE ACADEMY OF HEALTH & LIFE SCIENCE



PLANT AND ANIMAL SCIENCES

A student in the Plant and Animal Sciences sector studies the care of plants and animals and their interactions together. Plant Sciences includes the plant research, analysis, and the protection of plants in our environment. Animal sciences may include the science and business of caring for livestock species, farm animals or companion animals.

BIOCHEMISTRY AND BIOMEDICAL

Biochemistry is biological chemistry. It is the study of chemistry processes as it relates to living organisms. Biomedical Engineering focuses on the advances in human health and health care at all levels. In these courses students will investigate real challenges in the health and medical world and use problem-solving skills to find solutions.

SPORTS MEDICINE AND EXERCISE SCIENCE

Sports medicine is a branch of medicine that focuses on sports injury and physical fitness. Exercise science promotes health and well-being through finding solutions to inactivity.

HEALTH, HUMAN PERFORMANCE AND SPORTS RECREATION

This sector will provide foundational skills to pursue a variety of careers in health, sports, and recreation. These studies include the human body and how it works, understanding and applying principles of health and wellness (physically and emotionally), and communication and management skills for leadership in sports and recreational organizations.



Are you interested in becoming a doctor, nurse or physician assistant? Have you considered investigating DNA repair? Are you passionate about working with animals? Have you thought about becoming a personal trainer or athletic trainer? Are you interested in coaching or sports management? The Health & Life Sciences Academy provides a variety of experiences and hands-on learning opportunities to engage in the health and medical fields.

#FUTUREREADY



THE ACADEMY OF HEALTH & LIFE SCIENCE

Plant and Animal Sciences Sector

PLANT AND ANIMAL SCIENCES SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED: Academy Prep: Career & Life Planning MS Course Science	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Animal Sciences			
	Environmental Science (1)	Animal Science (1)	Advanced Animal Science (1) Chemistry (1)	Animal Health/Vet Tech (1) Capstone Experience (1)
	Plant Sciences			
	Environmental Science (1)	Plant and Soil Science (1)	Greenhouse Production and Management (1) Chemistry (1)	Applications of Horticulture (1) Capstone Experience (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) World History (1) Academy Elective (1) Elective (3)	English (1) Math (1) American History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective *required for Grad Class of 2026 and beyond
Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information</u> Section of the Course Guide				

Academy Electives

Medical Terminology (0.5)
Anatomy and Physiology (1)
Physics (1)
Business Essentials (0.5)
Entrepreneurship (0.5)
Business Management (0.5)
Applied Business Development (1)
World Languages (1)

Required Electives for Graduation

Consumer Ed and Personal Finance (0.5)
Fine Arts (1)
Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics)

*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

PLANT AND ANIMAL SCIENCES #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">HOSA—Future Health Professionals Organization	<ul style="list-style-type: none">Vet Tech ProgramVeterinarian InternshipGreenhouse InternshipHorticulturist InternshipLandscaping InternshipSeal of Biliteracy	<ul style="list-style-type: none">AgricultureAnimal ScienceAnimal HealthPlant ScienceSoil Science	<ul style="list-style-type: none">Vet TechVeterinarianHorticulturistBotanistLandscaping ManagerPlant PathologistGolf Course Superintendent



#FUTUREREADY



THE ACADEMY OF HEALTH & LIFE SCIENCE

Biochemistry and Biomedical Sector

BIOCHEMISTRY AND BIOMEDICAL SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED: Academy Prep: Career & Life Planning MS Course Medical Detectives Health	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Biochemistry			
	Computing Systems (1)	Anatomy and Physiology (1)	Plant and Soil Science (1) Chemistry (1)	Bioengineering or Biotechnical Engineering (1) Capstone Experience (1)
	Biomedical			
	Principles of Biomedical Sciences (1)	Human Body Systems (1)	Medical Interventions (1) Chemistry (1)	Biomedical Innovation (1) Capstone Experience (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) World History (1) Academy Elective (1) Elective (2)	English (1) Math (1) American History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective *required for Grad Class of 2026 and beyond
Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide				

Academy Electives	Required Electives for Graduation
Medical Terminology (0.5) Intro to Healthcare (0.5) Care of Athletes (0.5) Human, Growth, and Development (0.5) Lifespan Development (0.5) Forensic Science (1) AP Biology (1) AP Chem (1) Physics (1) AP Physics (1) Robotics (1) World Languages (1)	Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) *these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

BIOCHEMISTRY AND BIOMEDICAL #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">HOSA—Future Health Professionals OrganizationPLTW Capstone	<ul style="list-style-type: none">KCKCC Health CareersCPR CertificationCNA CertificationSeal of BiliiteracyThe University of Kansas Health Systems InternshipClient-Connected Project with WyCo Health Dept	<ul style="list-style-type: none">BiologyChemistryBiomedical EngineeringBiotechnologyChemical EngineeringPharmaceutical SciencesMolecular BiologyForensic Chemistry	<ul style="list-style-type: none">Research ScientistPharmacologistClinical ResearcherAcademic ResearcherAnalytical ChemistEnvironmental EngineerHealth InspectorPatent ExaminerMedical Liaison



#FUTUREREADY



THE ACADEMY OF HEALTH & LIFE SCIENCE

Health, Human Performance, and Sports Recreation Sector

HEALTH, HUMAN PERFORMANCE, AND SPORTS RECREATION SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED: Academy Prep: Career & Life Planning MS Course Medical Detectives Physical Education Health	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	<i>Intro to Recreational Sports (0.5)</i> <i>Nutrition and Wellness (0.5)</i>	<i>Intro to Officiating (0.5)</i> <i>Business Communications (0.5)</i> <i>Care of Athletes (0.5)</i>	<i>Sports Medicine (1)</i> <i>Sports and Entertainment Marketing (0.5)</i> <i>Recommended Anatomy & Physiology (1)</i>	<i>Program Design/Sports Operation (1)</i> <i>Capstone Experience (1)</i> <i>Optional Sports Medicine 2 (1)</i>
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) World History (1) Academy Elective (1) Elective (2)	English (1) Math (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective <i>*required for Grad Class of 2026 and beyond</i>
	<i>Career and Technical Education (CTE) Courses are italicized</i>			
Academy Electives		Required Electives for Graduation		
Strength and Conditioning 1, 2, 3 (0.5) Low Impact Circuit Training (0.5) <i>Teaching Observation (0.5)</i> <i>*Teaching as a Career (1)</i> <i>Teaching Internship (1)</i> <i>Intro to Healthcare (0.5)</i> <i>Care of Athletes (0.5)</i> <i>Medical Terminology (0.5)</i> <i>Human, Growth, and Development (0.5)</i> <i>Lifespan Development (0.5)</i> World Languages (1) <i>*Dual Credit via Baker University</i>		Consumer Ed and Personal Finance (0.5) Fine Arts (1) <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>		

HEALTH, HUMAN PERFORMANCE, AND SPORTS RECREATION #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> HOSA—Future Health Professionals Organization 	<ul style="list-style-type: none"> Student Coaches Teaching Internship Piper Optimist officiation Piper Optimist Client-Connected Project Seal of Biliiteracy 	<ul style="list-style-type: none"> Sports Marketing Coaching Athletic Administration Sports Tourism Camp Administration Sports Communication 	<ul style="list-style-type: none"> Sports Assistant Recreation Supervisor Athletic Director Trainer Sports Therapist Event Coordinator Park Manager



#FUTUREREADY



THE ACADEMY OF HEALTH & LIFE SCIENCE

Sports Medicine & Exercise Science Sector

SPORTS MEDICINE AND EXERCISE SCIENCE SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED: Academy Prep: Career & Life Planning MS Course Medical Detectives Physical Education Health	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	<i>Intro to Healthcare (0.5)</i> <i>Nutrition and Wellness (0.5)</i>	<i>Anatomy & Physiology (1)</i> <i>Care of Athletes (0.5)</i>	<i>Medical Terminology (0.5)</i> <i>Sports Medicine (1)</i> <i>Chemistry (1)</i>	Capstone Experience (1) Sports Medicine 2 (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) World History (1) Academy Elective (1) Elective (2.5)	English (1) Math (1) American History (1) Academy Elective (1) Elective (1.5)	English (1) Math (1) Government (0.5) Academy Elective (1) SS Elective (0.5) Elective <i>*required for Grad Class of 2026 and beyond</i>
	Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the Important Academy and Post-Secondary Information Section of the Course Guide			
Academy Electives		Required Electives for Graduation		
Strength and Conditioning 1, 2, 3 (0.5) Low Impact Circuit Training (0.5) <i>Human, Growth, and Development (0.5)</i> <i>Lifespan Development (0.5)</i> <i>Principles of Biomedical (1)</i> <i>Human Body Systems (1)</i> <i>Medical Interventions (1)</i> <i>Intro to Recreational Sports (0.5)</i> <i>Intro to Officiating (0.5)</i> World Languages (1)		Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>		

SPORTS MEDICINE AND EXERCISE SCIENCE #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none">Strength and Conditioning TeamTeam Manager or Student TrainerHOSA—Future Health Professionals Organization	<ul style="list-style-type: none">Student Trainer ProgramStrength and Conditioning Summer InternsPiper Optimist InternsFirst Aid/CPR CertificationSeal of BiliteracyPiper Optimist Client-Connected Project	<ul style="list-style-type: none">Athletic TrainingExercise ScienceKinesiologyHuman AnatomyAthletic Injury PreventionSports NutritionBiomechanicsTherapeutic ExerciseCommunity Health	<ul style="list-style-type: none">Physical TherapistPhysician AssistantNutritionistCoachSports PsychologistExercise PhysiologistTeam PhysicianOrthopedic Surgeon



#FUTUREREADY



THE ACADEMY OF PUBLIC SERVICES



FORENSIC SCIENCE

Forensic Science is a critical part of the criminal justice system. Forensic scientists examine and analyze evidence from crime scenes and assist in providing evidence for investigations. In this sector, students will learn how evidence found can aide in the prosecution of a crime or absolve the innocent.

LAW AND PUBLIC SAFETY

Protecting and serving the best interest of individuals, groups and communities is at the core of the legal, public safety and criminal justice fields. In this sector, you will learn how to better understand law from philosophical, political, historical and sociological perspectives and how to apply that knowledge when advocating for others.

TEACHING AND TRAINING

Advancements across the globe have one thing in common - they stem from instructors that foster individuals' unique abilities to help them grow through education. In this sector, you will learn how to create and deliver instructional material that helps students of all ages grow academically across subjects and scenarios.



Do you enjoy helping others improve their lives through a variety of resources and support? If so, The Academy of Public Services could be for you. By providing academic and technical courses, this academy will prepare you for post-secondary education or careers as a teacher, attorney, firefighter, police officer, or forensic scientist.

#FUTUREREADY



THE ACADEMY OF PUBLIC SERVICES

Forensic Science Sector

FORENSIC SCIENCE SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED ACADEMY PREP: Career & Life Planning MS Courses Forensic Science	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Introduction to Law Public Safety, Corrections, and Security (0.5)	Forensic Science 1 (1) Chemistry (1)	Forensic Science 2 (1)	Capstone Experience Course (1)
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (2)	English (1) Math (1) World History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective (2)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective *required for Grad Class of 2026 and beyond
	Career and Technical Education (CTE) Courses are italicized CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information</u> Section of the Course Guide			
Academy Electives		Required Electives for Graduation		
Anatomy and Physiology (1) Medical Terminology (0.5) Psychology (0.5) AP Psychology (1) Principles of Biomedical Science (1) Human Body Systems (1) Computing Systems (1) Business Law (1) Practical Law (1) World Languages (1)		Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>		

FORENSIC SCIENCE #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> Mock Trial 	<ul style="list-style-type: none"> KCKPD Summer Cadet Program KCKPD 911 Call Intake Internship KCKPD Correctional Cadet Internship Seal of Biliiteracy KCKCC Fire Science Program 	<ul style="list-style-type: none"> Corrections Criminal Justice Criminal Law Criminal Safety Studies Criminal Science Juvenile Corrections Police Science 	<ul style="list-style-type: none"> Fingerprint Analyst Evidence Technician Forensic Specialist Forensic Engineer Forensic Investigator Bloodstain Pattern Analyst Polygraph Examiner Toxicologist Ballistic Expert Documents Examiner Forensic DNA Analyst



#FUTUREREADY



THE ACADEMY OF PUBLIC SERVICES

Law and Public Safety Sector

LAW AND PUBLIC SAFETY SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED ACADEMY PREP <i>Career & Life Planning</i>	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Law			
	Introduction to Law Public Safety, Corrections, and Security (0.5) Business Essentials (0.5)	Business Law (0.5) Practical Law (0.5)	Foundations in Law (1)	Capstone Experience (1) AP Government (1)
	Fire/EMS			
	Introduction to Law Public Safety, Corrections, and Security (0.5)	Anatomy & Physiology (1) Introduction to Emergency Medical Services (0.5) Medical Terminology (0.5)	Public Safety Physical Education (1) Fire Science (1)	KCKCC Fire Science Program Capstone Experience (1) Optional: Public Safety Physical Education in order to take the CPAT exam
	Police			
	Introduction to Law Public Safety, Corrections, and Security (0.5)	Introduction to Emergency Medical Services (0.5) Medical Terminology (0.5)	Public Safety Physical Education (1)	Capstone Experience (1) KCKCPD Summer Cadet, 911 Call Intake, or Correctional Cadet Internship
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Elective	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective <i>*required for Grad Class of 2026 and beyond</i>

Career and Technical Education (CTE) Courses are italicized

Academy Electives	Required Electives for Graduation
Debate (0.5) Sociology (0.5) or College Sociology Intro to Healthcare (0.5) Anatomy & Physiology (1) Medical Terminology (0.5) Business Communications (0.5) Business Management (0.5) Accounting (1) Forensic Science 1 (1) Forensic Science 2 (1) World Languages (1)	Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5)—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>

LAW AND PUBLIC SAFETY #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> Field Trips Mock Trial Legal Internship Youth Court Volunteer Fire Dept 	<ul style="list-style-type: none"> Fire/EMS: Hazmat, Fire 1, Fire 2 EMR/EMT Certifications KCK Cadet Program AP Government Seal of Bilitary 	<ul style="list-style-type: none"> Pre-Law Political Science Criminology Fire Sciences Paramedicine 	<ul style="list-style-type: none"> Judge Lawyer Politician Municipal Employee Firefighter EMT Paramedic Police Officer



#FUTUREREADY



THE ACADEMY OF PUBLIC SERVICES

Teaching and Training Sector

TEACHING AND TRAINING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
REQUIRED ACADEMY PREP <i>Career & Life Planning</i>	Introductory Academy Course	Technical Academy Course	Application Academy Course	Capstone Experience
	Human Growth and Development (0.5)	Teaching Observation (0.5) Lifespan Development (0.5)	Teaching as a Career (1) *Dual Credit Offered Psychology (0.5)	Capstone Experience (1) USD 203 Teaching Internship (1) *Dual Credit Offered
	Required Core and Elective Courses			
	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (2)	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective	English (1) Math (1) Science (1) American History (1) Academy Elective (1) Psychology (0.5)	English (1) Math (1) Government (0.5) Academy Elective (1) *SS Elective (0.5) Elective *required for Grad Class of 2026 and beyond
	<i>Career and Technical Education (CTE) Courses are italicized</i> <i>CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information</u> Section of the Course Guide</i>			
Academy Electives		Required Electives for Graduation		
World Languages (1) Family Studies(1) Area of Concentration within Education <i>(Math, Social Studies, Science, ELA, Music, PE, Art, Technology, Business, Journalism, FACS, etc.)</i>		Consumer Ed and Personal Finance (0.5) Fine Arts (1) Communications (0.5—Oral Communications, College Public Speaking, Business Communications, Debate, or Forensics) <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>		
TEACHING AND TRAINING #FUTUREREADY EXPERIENCES				
Experiences	Market Value Assets	College Majors	Careers	
<ul style="list-style-type: none">Classroom ObservationFamily, Career, and Community Leaders of America (FCCLA)	<ul style="list-style-type: none">Teaching InternshipDual CreditReading Group LeaderSummer Learning InternDistrict Education Event ParticipationSeal of Biliteracy	<ul style="list-style-type: none">Elementary, Secondary, and Special EducationSchool PsychologySchool CounselingSchool Social WorkLibrary Media Specialist	<ul style="list-style-type: none">Elementary EducatorSecondary EducatorSpecial Education TeacherSchool CounselorPrincipalSchool Librarian	



#FUTUREREADY

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[2024-2025 COURSE DESCRIPTIONS LINKED HERE](#)

Message from the Principal

Dear PHS Family,

It's hard to believe that we are already planning ahead for the upcoming school year. As we turn our attention to course selection, I just wanted to encourage you to make your choices carefully. At PHS, we want every student to be able to personalize their learning experience. We want all of our students to have the opportunity to select classes and learning opportunities that best meet their interests and passions. As you think about the courses that best fit into the Academy and Sector you are pursuing, I hope you are doing so with the big picture in mind. My hope is that your experience at Piper High School is filled with rigorous, relevant learning and experiences that will help put you on the path to success after your time at PHS is over, wherever that path takes you.

Please know that the entire staff at PHS is here to support you during every step of your journey. If any of us can be of assistance, please do not hesitate to reach out. It's an honor to work with you as you embark on your road to success.

Sincerely,

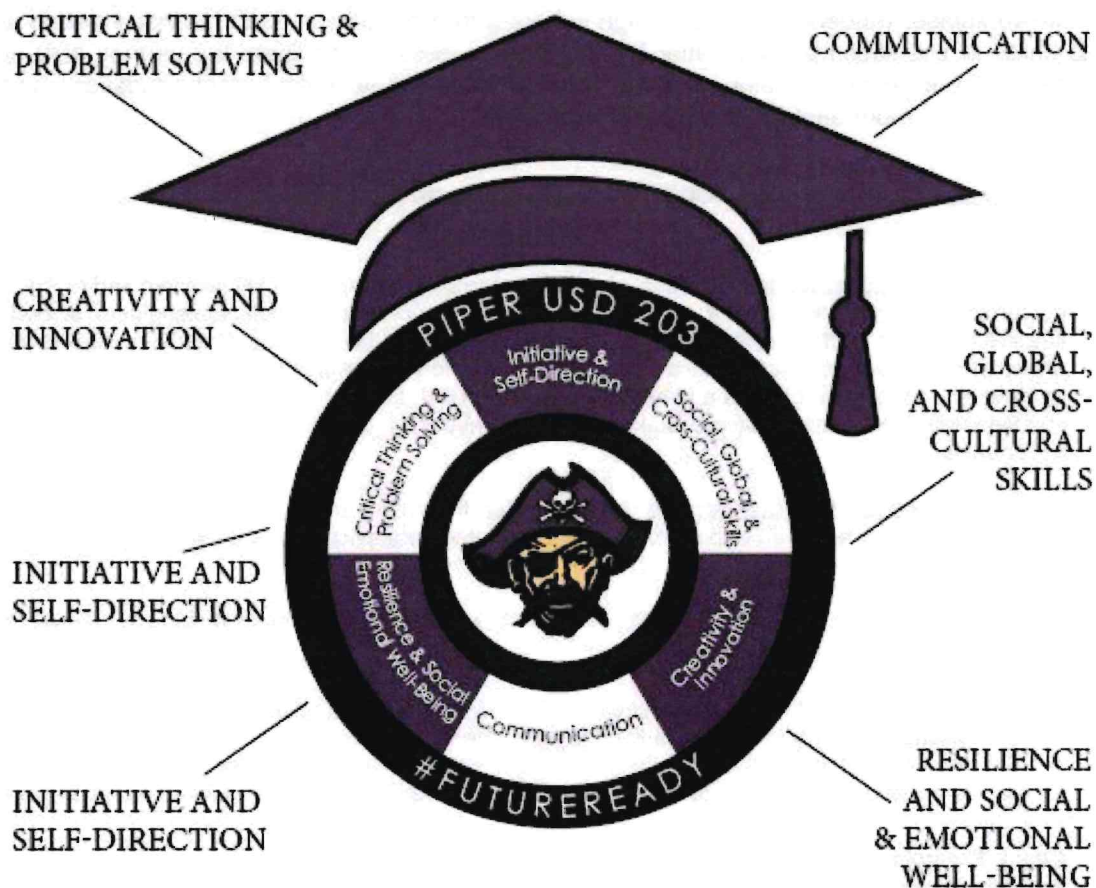
Bilee Jo Grable
Principal
Piper High School

Portrait of a Piper Graduate

Every school system is unique, and is connected by a shared aspiration: that all students have an educational experience preparing them to be successful post-graduation. Now more than ever, that learning experience must not only provide for the acquisition of rigorous academic content, it must also be more intentional about fostering critical thinking, encompassing specific 21st century skills, and habits of mind needed to navigate and thrive in a complex, rapidly changing world. The competencies identified in our Piper Portrait of a Graduate will drive our future work as a district and as a community.

portrait of a GRADUATE

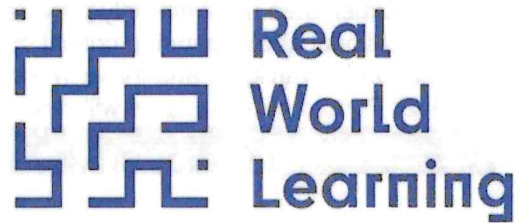
All Piper School District graduates will achieve cognitive, personal, and interpersonal excellence with a strategic focus placed on:



Real World Learning

As Piper works to ensure that its graduates are “future ready” for whatever their post-secondary pursuits may be, our work with the [Kauffman Foundation's Real World Learning initiative](#) is a vitally important part of the process.

Their vision for Real World Learning perfectly aligns with Piper's belief that every student's educational experience should be based on content steeped in relevance with ample opportunities for application beyond the traditional classroom. Aligning our programming frameworks, scheduling, credit attainment, and graduation requirements will create opportunities for students to earn Market Value Assets during their time at Piper High School. These experiences will help them to be in the best position for post-secondary success.



Market Value Assets

As Piper moves forward with Real World Learning, we are venturing outside the practices of the traditional school setting, constructing academy frameworks with embedded Career and Technical Education (CTE) pathways, exploring competency-based learning, and reimagining the scope of the high school experience. ***Market Value Assets will be an integral part of our high school student's experience and by the year 2024, every Piper student will be required to graduate with at least one Market Value Asset (MVA).***

A **Market Value Asset** (Source: PREP-KC 2017) is defined as industry valued and recognized skills acquired in high school that create a more seamless transition from school to postsecondary education and/or the workplace. Students who leave high school with a diploma and market value assets are more likely to enroll in postsecondary education/training and successfully navigate the journey from school to employment without getting lost along the way. Market value assets make further education and training, and ultimately, a job, more affordable and more attainable.

College Credit: Nine or more college credit hours, progressing toward an industry-recognized degree or credential.

Entrepreneurial Experiences: Students identify a compelling social or market problem and mobilize resources to research and solve it. Leveraging input and support from multiple stakeholders, students iteratively analyze, prototype, implement, reflect and adapt potential solutions. Outputs of MVA-level entrepreneurial experiences include a market and stakeholder research summary, a "business plan" that includes an assessment of costs and benefits associated with development or operation of their solution, and feedback from relevant external stakeholders obtained through exhibition or "shark-tank" type pitch opportunities.

Industry-Recognized Credentials (Regionally Vetted IRCs): Current lists published by state education departments will be reviewed with employers and validated for applicability and relevance – we anticipate a small subset will be included.

Internships: Learners perform meaningful job tasks at a worksite or approved location, under the guidance of a qualified supervisor.

1. Should qualify for high school and/or college credit and/or be paid.
2. Minimum 120 hours within a calendar year, at least 60 onsite.
3. Performance evaluated by the work manager in addition to an educator.
4. Internship completion substantive enough to be included on students' LinkedIn and/or resume.

Client Projects: Learners analyze and solve authentic problems, working in collaboration with other learners and professionals from industry, not-for-profit, civic or community-based organizations.

1. Work involves authentic methods and tools used by professionals in the work environment.
2. Experience includes mentoring and evaluation by working professionals.
3. Output is viewed as value-add by external stakeholders and resume-worthy

Career and Technical Education

The Kansas State Department of Education's [Career and Technical Education \(CTE\) Career Clusters](#) and [Work-Based Learning Continuum](#) have been used as a model to organize intentional paths of study for all students 8th-12th in what we have named **The Academies of Piper High School**. Each Academy will have several sector options with sequential coursework for a more focused, purposeful Individual Plan of Study for every student. Every sector will have embedded MVA opportunities with a culminating Capstone Experience that allows for application of the technical and employability skills gained within these career-focused paths.

The KSDE Career and Technical Education Pathways embedded in our Academies are as follows:

- Aviation Maintenance
- Biochemistry
- Biomedical
- Business Finance
- Business Management & Entrepreneurship
- Construction & Design
- Corrections, Security, Law, & Law Enforcement
- Digital Media
- Emergency & Fire Management
- Engineering & Applied Mathematics
- Family, Community and Consumer Services Pathway
- Fashion/Apparel/Interior Design
- Graphic Design
- Health Science
- Manufacturing
- Marketing
- Restaurant & Event Management
- Teaching/Training
- Travel and Tourism
- Web & Digital Communications



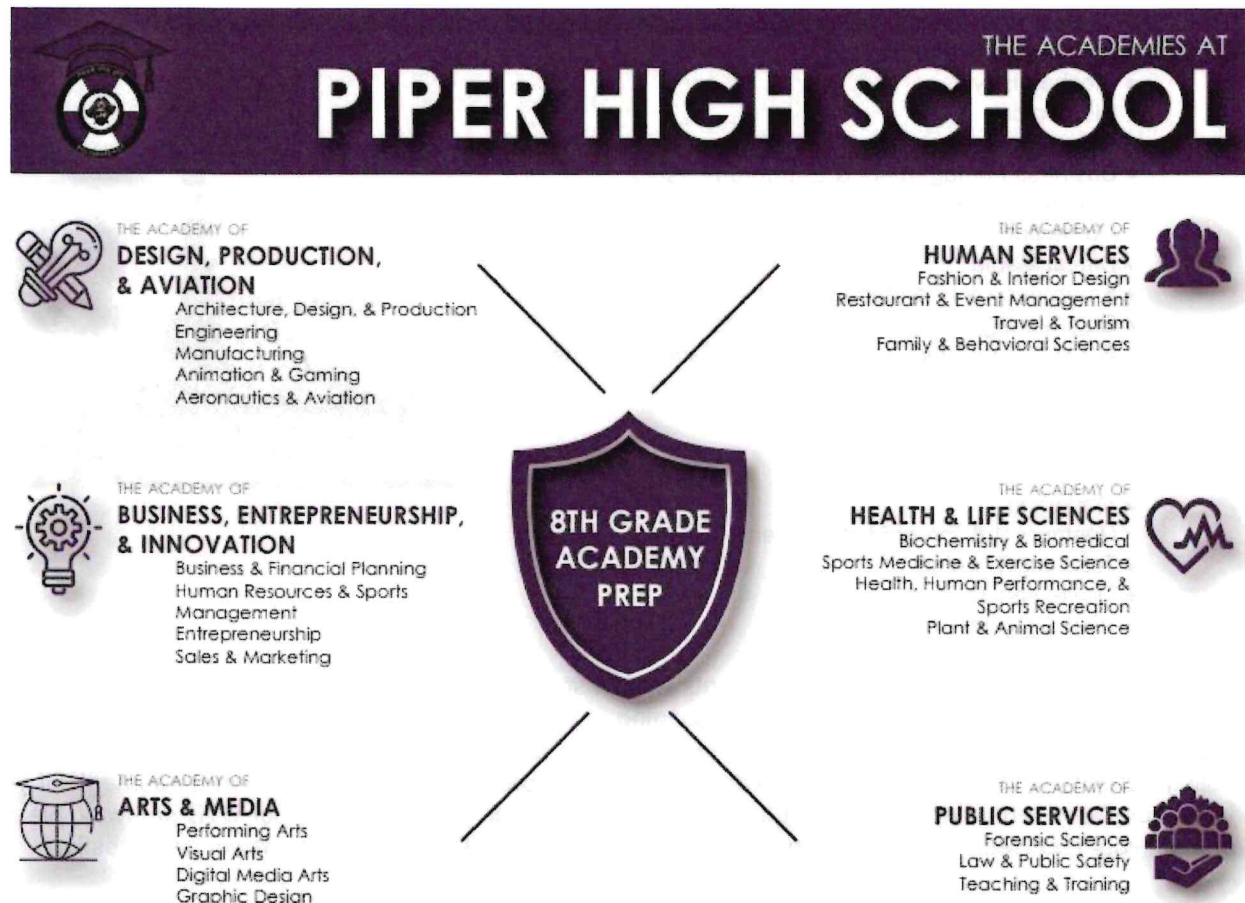
Kansas has statewide articulation agreements with post-secondary programs to ease the transition from high school CTE Pathways to the corresponding postsecondary program. Any Kansas high school graduate who meets the requirements of an articulation agreement may utilize the agreement to obtain college credit, scholarships, tuition waivers, and/or other benefits as stated in each agreement. If you have questions regarding the [state articulation agreements](#) or your status in your CTE pathway, please contact your counselor who will collaborate with the District CTE Coordinator to answer any questions.

Capstone Experience

As a part of the Piper School District Graduation requirements, each Senior will participate in a Capstone Experience (formerly known as the Senior Project). This experience provides each individual Senior the opportunity to be immersed in real world learning and to stand before their business partners, mentors, educators, community leaders, and peers to showcase their achievements in a culminating presentation. This showcase will not only indicate the employability and technical skills learned in the capstone experience, but also the Portrait of a Piper Graduate Competencies and Market Value Assets achieved.



As Piper works to ensure that its graduates are future ready for their post-secondary pursuits, we have engaged in a vitally important high school infrastructure redesign to support our real-world learning initiatives. We have created Six Academies with each academy having several areas of focus defined as Sectors. These sectors provide a clear course of study that ties closely to the Kansas State Department of Education Career and Technical Education pathways. Additionally, the experiences provided to students within these academies will allow for not only a diploma, but the attainment of a Market Value Assets for every student prior to graduation. The Academies of Piper High School as well as the Portrait of a Piper Graduate Competencies will prepare our graduates to be successful, productive citizens in college, career, and life.



6TH, 7TH AND 8TH GRADE ACADEMY PREP COURSES

In these required course, students will be defining individual future-ready skills with deep exploration of the Portrait of a Piper Graduate competencies, individual career interests, and employability skills. Students will explore a variety of Market Value Assets (MVA) and create a personalized Individual Plan of Study that includes a four-year high school academy plan, one or more MVA, and post-secondary options. Through this personal investigative work, students will also be exploring the opportunities available in each Academy and Sector offered at Piper High School.

THE ACADEMIES

Upon entering 9th grade, Piper students will be a part of one of six academies; Design, Production, and Aviation, Business, Entrepreneurship, and Innovation, Arts and Media, Human Services, Health and Life Sciences, or Public Services. Students will focus on a Sector within their selected Academy that fits their identified interests. **It is important for us to state that we do not expect students to choose their future career. However, learning traditional subject matter in the context of an actual real world career provides a richer and more engaging educational experience. This answers the long-standing student question "how does this apply".** Through the real world learning opportunities in each academy, students will be able to in fact apply all they have learned and be better equipped for success in their future.

Policies and Procedures

ACADEMY CHANGES

The Piper School District offers career awareness and exploration activities from Pre-K through 8th grade. These activities are strategically aligned with the Kansas State Department of Education's Work-Based Learning continuum and provide opportunities to inspire and ignite every child's individual career passion.

As students enter middle school, they will be enrolled in a course each year called Academy Prep where students will take a deeper dive into their personal career interests, future goals, and individual passions. This intentional work, alongside each student's Individual Plan of Study, will prepare students to choose an Academy prior to entering high school.

These Academy selections are meant to be final as the student travels through the course sequence, participates in Market Value Assets, and prepares for their culminating Capstone Experience in their Academy. Academy completion provides a local credential that shows the post-secondary community that our students are future-ready and employable. ***As a reminder, we are not asking students to choose their future career***, but rather providing them a learning environment where traditional subject matter is taught in the context of an actual real world career. We strongly believe this provides a richer and more engaging educational experience.

With that being said, we understand that it is possible for interests to transform and even change completely. To address the possibility, we have created an Academy and Sector Change Policy.

Academy/Sector Change Policy

To ensure alignment with the Course Selection process and Course Change Policy, the following Academy Change Policies will be implemented:

1. The Academy change window for high school students will be during the Academy Selection window for 8th graders. This window may vary from year to year due to a variety of factors.
2. After initial selection of an Academy in 8th grade, students can make only one Academy change within the window selected in either their 9th or 10th grade years. **transfer students will need to talk to their school counselor to see if they qualify for a change*
3. Students have the option to change sectors within their current academy up to two times IF the course sequence in the new sector will still allow room for Academy completion.
4. Academy changes outside of these parameters would require a meeting with the student, student's counselor, parent/guardian, and administration to complete a course and graduation audit and discuss the impact and change would have on the academy and capstone experience

COURSE CHANGES

All teaching assignments, course offerings and the master schedule are developed from the course selection requests that students make in January/February. Therefore, schedule changes are not permitted. **It is extremely important when choosing exploratory classes outside of the pre-assigned CORE and ACADEMY courses, that students and families understand the course expectations and content. Once you officially add a course to your schedule, you will be expected to complete it.**

Class changes exceptions are made only for the following reasons:

1. Change is required to meet graduation requirements.
2. Change is required because the student has already been awarded credit for the course.
3. Change is required because the student is enrolled in a class that is not appropriate for the student's achievement level
4. Change is necessary because of extenuating circumstances that are approved by administration

CREDIT RECOVERY

Students that do not pass a required course for graduation must retake the course. In order to do so, the student would enroll and pay for credit recovery via our district offered summer school program. The price may vary from year to year. For current policies, contact your student's assigned school counselor. The grade achieved in the summer recovery course does not replace the failed grade. Both will be listed on the transcript. For extenuating circumstances, prior approval may be given to pay and enroll in a credit recovery course within the school day during the school year. Administrative approval is required.

PASS/FAIL COURSES

Some credit options may be graded with a "P" for Pass or "F" for Fail. The NCAA accepts only letter grades for credit on the transcript for their course requirements.

EARLY GRADUATION

Piper School District #203 encourages students to complete and participate in a full four years of high school. However, we do offer an early graduation opportunity for students who would like to begin their future plans at an earlier time. Early Graduation would mean that a student completes the graduation requirements in December, instead of May, of their graduation year.

Early Graduation Requirements:

- Good academic standing as determined by school personnel
- The student is not in need of credit recovery
- If student has a current 504 or IEP, they have completed the Case Manager portion of the application
- The student must provide proof or reasoning of at least one of the following situations to be approved for early graduation: hardship circumstances, vocational opportunities, enlistment in the military, pursuit of a continuous specialized education objective, or college entrance.
- Early graduates will not be eligible to be valedictorian or salutatorian. Students will also not be included in the class rank, top 10%, etc, with students that have completed all 8 semesters.

Important Information in regards to Early Graduation

If a student is approved for early graduation, the following will apply:

- If there is capacity in the course the student will be enrolled in 2nd semester Senior English during their Junior Year as well as Junior English.
- The student will not be exempt from any district or state graduation requirements.
- The student will still be required to complete all Piper High School graduation requirements. If approval is given for early graduation, then the student will need to consider the possibility of having to double up in some core class areas due to graduation requirements. This may require having to pay for online courses if there is not capacity due class sizes and offerings.
- The student will still need to complete the Capstone Experience, but it will need to be started in junior year and completed in December of their senior year. It is recommended that students take the capstone class spring of junior year.
- It is the student and family's responsibility to understand how/if early graduation would impact entrance into college, scholarship opportunities, participation in sports or activities at the college level, etc. We encourage all students to contact their college of choice to discuss if this could make an impact.
- Students will not participate in 2nd semester senior year sports or extracurricular activities at Piper High School.
- Once a student has committed to early graduation, they will not be able to change back to a full year schedule during senior year unless approved by administration.
- Early graduates will be allowed to walk at graduation, but will be required to indicate ahead of time if they will or not. This decision cannot be changed due to required ordering and scheduling that takes place for graduation.

Important Academic and Post-Secondary Information

PIPER SCHOOL DISTRICT GRADUATION REQUIREMENTS

Below are the graduation requirements for each Graduation Class. Please utilize the Academy and Sector cards for your chosen Academy to help further explain the course requirements.

Piper USD#203 Graduation Requirements			
	2028	2027 and 2026	2025
Communications		ELA	
English	4	4	4
Oral Communications	0.5	0.5	0.5
Society and Humanities		Fine Arts and Social Studies	
Fine Arts	1	1	1
Social Studies	3	3	4
STEM		Math and Science	
Math	3	3	4
Science	3	3	3
*STEM: Capstone Experience Course *Advanced CTE course	1		
Employability and Life Skills		Required Electives	
PE	0.5	0.5	0.5
Health	0.5	0.5	0.5
Financial Literacy *Consumer ed and personal finance	0.5	0.5	0.5
Electives driven by IPS *Academy Electives	4.5		
Locally Required			
CORE	0.5	0.5	0.5
Academy Courses (Career Pathway) and Electives		10.5	8.5
Electives	5		
Capstone Experience Course		1	1
Market Value Assets			
Capstone Experience *Client-Connected Project, Internship, Entrepreneurial Experience, and Industry Recognized Credential or 9 or more Dual Credit Hours Capstone Presentation Senior Presentation	Two or more Market Value Assets required	One or more Market Value Assets highly encouraged	One or more Market Value Assets highly encouraged
TOTAL CREDITS	28	28	28

**for Kansas Scholars Curriculum Completer and Qualified Admissions requirements, please check page 11

**for CTE Scholars Recognition, please check page 12

CLASSIFICATION OF STUDENTS BY CREDITS ACHIEVED

Upon entering Piper High School, and at the beginning of each year thereafter, each student will be academically classified according to the following criteria. Full year length courses (2 semesters) will receive 1.0 credit. One-half year length courses (1 semester) will receive .5 credit.

Sophomore.....minimum of **6** credits by August 1

Junior.....minimum of **13** credits by August 1

Senior.....minimum of **20** credits by August 1

GPA, WEIGHTED CLASSES, AND THE GRADING SCALE

A student's overall high school GPA is based off of grades received in regular and weighted classes while in high school. Weighted classes offer students challenging opportunities. The classes provide topics in greater depth than the regular level class. Due to the extra degree of difficulty, extra grade points will be awarded to specific classes if an A or B is earned.

The following classes are **weighted classes**:

Honors English 1	Honors Algebra 2																								
AP Seminar: English 10	Dual Credit College Algebra																								
AP English Language & Composition	AP Pre-Calc																								
AP English Literature & Composition	AP Stats																								
College Composition 1	AP Calculus AB																								
College Composition 2	Honors Debate 3																								
College Public Speaking	Honors Debate 4																								
Honors Biology	Honors Forensics 3																								
AP Biology	Honors Forensics 4																								
AP Physics	College Spanish																								
AP Chemistry	AP Spanish																								
AP European History	College Intro to Business																								
AP US History	College Intro to Informational Tech (IT)																								
College US History	College Microeconomics																								
AP US Government and Politics	College Elementary Latin																								
AP Psychology	College Understanding Music																								
College Psych	College Intro to Christianity																								
College Sociology	College Teaching as a Career																								
Honors Geometry	College Teaching Internship																								
<table><tr><td></td><td>A</td><td>B</td><td>C</td><td>D</td><td>F</td></tr><tr><td>Regular</td><td>4.00</td><td>3.00</td><td>2.00</td><td>1.00</td><td>0.00</td></tr><tr><td>Weighted</td><td>5.00</td><td>4.00</td><td>2.00</td><td>1.00</td><td>0.00</td></tr></table>		A	B	C	D	F	Regular	4.00	3.00	2.00	1.00	0.00	Weighted	5.00	4.00	2.00	1.00	0.00	<table><tr><td>Grading Scale</td></tr><tr><td>A = 90 - 100%</td></tr><tr><td>B = 80 - 89%</td></tr><tr><td>C = 70 - 79%</td></tr><tr><td>D = 60 - 69%</td></tr><tr><td>F = below 60%</td></tr></table>	Grading Scale	A = 90 - 100%	B = 80 - 89%	C = 70 - 79%	D = 60 - 69%	F = below 60%
	A	B	C	D	F																				
Regular	4.00	3.00	2.00	1.00	0.00																				
Weighted	5.00	4.00	2.00	1.00	0.00																				
Grading Scale																									
A = 90 - 100%																									
B = 80 - 89%																									
C = 70 - 79%																									
D = 60 - 69%																									
F = below 60%																									

HONOR ROLL

Grade point averages will be used to determine the Honor Roll each semester. Grades earned by students in dual and current enrollment courses will be included in the GPA calculation.

Three honor roll categories are identified:

1. **Principal's Honor Roll:** All A's
2. **First Honors Honor Roll:** 3.5 – 4.0 GPA
3. **Second Honors Honor Roll:** 3.0 – 3.49 GPA

**Note: Students earning a grade below C will not qualify for an honor roll.*

ACADEMIC SCHOLAR LETTER

Academic Scholar letters are awarded on a semester basis. Students who qualify must have a 3.75 GPA for the previous semester. The first time a student earns this award, they will receive an honor letter and a lamp of knowledge pin. Each additional time they will receive a bar for their letter.

ACADEMY ENDORSEMENT POLICY FOR THE CLASS OF 2028 AND BEYOND

An Academy Endorsement is a specific level of accomplishment within a student's academy. There are three levels of endorsement; Endorsed, Endorsed with Honors, and Endorsed with High Honors. If one of the three endorsements is achieved, students will receive special recognition. We encourage all students to earn an endorsement.

How are students recognized?

- Students will receive a notation on their transcript
- Students will be identified in the graduation program
- Students will receive a graduation cord that represents their level of endorsement

Why should a student get an endorsement?

- An endorsement is a good indication to training facilities, colleges, and employers that a student is prepared for their post-secondary endeavors
- An endorsement means that a student has completed all academy-specific courses, which translates as having acquired workforce-ready skills within that specific industry
- An endorsement means that a student has completed a Market Value Asset, which is an industry-recognized credential or experience connected to the real world
- An endorsement is an incredible way for students to market themselves to employers and post-secondary institutions

How does a student earn an endorsement?

Each academy has specific endorsement requirements, but the common requirements across all academies are a required sequence of courses, a portfolio, GPA, endorsement hours, Market Value Assets, and a Capstone Presentation. The level of endorsement achieved is dependent on the requirements completed at each endorsement level.

What are endorsement hours (eHours)?

Endorsement hours are academy-aligned experience hours that are outside the regular school day and not connected to a course grade. These hours can be achieved over the four years students are in high school. Endorsement Hours are tracked by the student in the district's current Work-Based Learning Management system. All experience approvals are facilitated by the Academy Teacher Leaders. Please refer to your specific Academy requirements for the exact number of eHours needed to earn an endorsement.

Examples of eHours include:

- Academy-related volunteer/community service
- Participating in academy-related competitions
- Attending academy-related events outside of the school day
- Participating in an Employability Skills Workshop
- Attending an Academy-focused Career Day
- Attending the District High-Wage High-Demand Career Day

- speaker
- Participating in an academy-related workshop or conference
- Presenting Academy-related content outside of the school day to the community, industry, and other stakeholders

- school activities (classroom visits, 8th grade Academy Career Fair, etc)
- Participating in industry or campus visits related to the academy
- Other Academy Teacher Leader approvals

Linked below is the Academy Endorsement Policy for each Academy

You can also find these documents on our Real World Learning website, <https://rwl.piperschools.com/>

[Design, Production and Aviation](#)

[Business, Entrepreneurship, and Innovation](#)

[Arts and Media](#)

[Human Services](#)

[Health and Life Sciences](#)

[Public Services](#)

KANSAS STATE SCHOLARS CURRICULUM

Students who complete the [Kansas Scholars Curriculum](#) will be nominated to the state for KS Scholars Curriculum Completer Recognition. Scholarship money may be available to students based on merit and need, **however it is not guaranteed**. See your counselor for more details.

- 4 credits of English
- 4 credits of Math; Algebra 1, Geometry, Algebra 2, and 1 advanced course (Algebra 1 taken in the 8th grade will count towards scholar curriculum, but not for high school credit)
- 3 credits of Science (must be Biology, Chemistry and Physics)
- 3 credits of Social Studies
- 2 credits of Foreign Language (must be in the same language)

KANSAS BOARD OF REGENTS QUALIFIED ADMISSIONS REQUIREMENTS

Qualified Admissions (QA) are standards used by the six state universities to review applicants for automatic undergraduate admissions. The universities that use QA are Emporia State University, Fort Hays State University, Kansas State University, Pittsburg State University, the University of Kansas, and Wichita State University. These standards are set by the [Kansas Board of Regents](#), the governing body for the state universities. (KBOR, 2011)

REQUIREMENTS:

<p>Emporia State, Pitt State, Fort Hays State, and Wichita State:</p> <ul style="list-style-type: none"> • ACT 21+ (SAT 1060) OR Cumulative GPA 2.25+ • Cumulative GPA 2.0+ for College Credit earned in High School
<p>Kansas State University:</p> <ul style="list-style-type: none"> • ACT 21+ (SAT 1060) OR Cumulative GPA 3.25+ • Cumulative GPA 2.0+ for College Credit earned in High School
<p>University of Kansas:</p> <ul style="list-style-type: none"> • ACT 21+ (SAT 1060) AND a GPA of 3.25+ OR ACT 24+ (SAT 1160) AND a GPA of 3.0+ • Cumulative GPA 2.5+ for College Credit earned in High School
<p>Kansas State Scholars Curriculum RECOMMENDED, but not required</p> <ul style="list-style-type: none"> • 4 credits of English • 4 credits of Math; Algebra 1, Geometry, Algebra 2, and 1 advanced course (Algebra 1 taken in the 8th grade will count towards scholar curriculum, but not for high school credit) • 3 credits of Science (must be Biology, Chemistry and Physics) • 3 credits of Social Studies • 2 credits of Foreign Language (must be in the same language)

CTE SCHOLARS RECOGNITION

The [Kansas State Department of Education CTE Scholar recognition](#) is an opportunity to celebrate Career and Technical Education (CTE) students that have completed an identified CTE pathway in high school. The following criteria must be met for recognition;

- Be a graduating Senior in high school
- Completion of a minimum of 3.0 CTE credits
- 2.0 CTE credits must be above the introductory level
- CTE credits earned can be across pathways
- GPA in the CTE courses above introductory level must be 3.5 or above
- Earned an Industry Recognized Credential (i.e. OSHA, ServSafe, Quickbooks, CNA) **OR** completed a CTE Application level course with a 85% or above
- Civic Engagement Project completion in a leadership role with validation **OR** completion of 100 hrs community service with verification
- A minimum of 80 hours in a work-based learning experience (i.e. school-based enterprise, internship, or client-connected project) *Essay with explanation required*
- Career Vision Reflection

Students who earn Kansas CTE Scholar will be recognized in the following ways:

- Certificate with student's name
- Graduation honor cord
- Commemorative pin
- Statewide news release
- KSDE website recognition
- Local BOE recognition
- Senior Breakfast Recognition

Students that qualify will be notified by the District CTE Coordinator and will provided an application

SEAL OF BILITERACY

The Seal of Biliteracy is an opportunity for students to earn a recognized credential, also considered a Market Value Asset, for intermediate and advanced proficiencies in English and one or more additional language(s). Piper students that achieve the Seal of Biliteracy will be recognized by the state and celebrated by our district. To learn more about how to earn this Market Value Asset, please visit the [KSDE Seal of Biliteracy website](#).

WAY TO EARN COLLEGE CREDIT AT PIPER HIGH SCHOOL

(1) Advanced Placement Examinations

Certain courses at Piper High School are designated as Advanced Placement (AP) courses. These are considered college level courses. If students choose to take the AP exam at the end of the course, the student could potentially earn college credit depending on their achieved score. There is a fee to take the exam and this fee is the responsibility of the student/family. AP exams are given each May on a national test day and are scored by the Education Testing Service. Each exam receives an overall grade on a five point scale:

- 5 points = extremely well qualified
- 4 points = well qualified
- 3 points = qualified
- 2 points = possibly qualified
- 1 point = no recommendation

Each college and/or university independently decides which AP exam scores they will accept. To learn more, please use this [SEARCH LINK](#) provided by CollegeBoard.

Current AP Courses Offered:

AP Seminar: English 10	AP US History
AP English Language and Composition	AP Government and Politics
AP English Literature and Composition	AP Psychology
AP Biology	AP Pre-Calc




AP Chemistry	AP Calculus AB
AP European History	AP Spanish

(2) College Partnership: Concurrent and Dual Enrollment

These programs are offered to our current high school sophomores, juniors and seniors. It is possible that a college partner would approve a freshmen to enroll in a college course if they are on a Gifted IEP. This is not a local high school decision, but rather that of the college partner. .

Concurrent Enrollment: an approved high school class; can be taken for college credit, follows the college partner curriculum, and is taught by a current high school teacher

Dual Enrollment: A college class taught by a college teacher on our campus, their campus, or online

	Kansas City Community College 	Baker University 	Donnelly College 
Location	PHS Campus	Online	PHS Campus
Cost Per Credit Hr	\$89 per credit hour	\$118 per credit hour	\$75 per credit hour
Concurrent Courses	College Psychology College US History College Sociology	College Algebra College Teaching as a Career College Teaching Internship	College Spanish
Dual Enrollment Courses	Public Speaking Composition I Composition II	Intro to Business Intro to Informational Technology (IT) Microeconomics Elementary Latin Understanding Music Intro to Christianity	

(3) Kansas City Kansas Community College Technical Education Center

Current juniors and seniors at Piper High School have the opportunity to attend Kansas City Kansas Community College Technical Education Center. The district is only provided a limited number of TEC spots and this varies from program to program and school year to school year.

Due to the limited space, students must **follow the local Academy course sequence that aligns with the programs listed below to enroll and must also apply and be accepted by Piper High School prior to applying for the KCKCC Technical Education program.** Please meet with your school counselor to learn more about the local application process and the

enrollment process for KCKCC TEC. Students achieve college credits and industry recognized credentials while enrolled in these programs.

Programs offered for Dual Enrollment on the KCKCC TEC Campus:

Application approval and accuplacer scores required

TEC Program	FEES-estimate	TEC Program	FEES-estimate
Auto Collision		Health Careers (Seniors ONLY)	\$150
Auto Technology		Machine Technology	
Building and Property Maintenance		Major Appliance	
Computer Support Specialist		Multimedia/Video Production	
Construction Technology		Nail Tech	\$425
Cosmetology	\$1100	Office Assistant	
Culinary Arts		Welding Technology	
Electrical Technology		CyberSecurity	
Automation Engineering Technology		Machine Technology	
Fire Science Academy (Seniors ONLY)	FEES	Major Appliance	
Heating and Refrigeration		Multimedia/Video Production	
Electronics Engineering Technology		Early Childhood Education	

GREENBUSH VIRTUAL ACADEMY

Greenbush Virtual CENTER (GVA) is an alternative virtual learning option for currently enrolled high school students. GVA is a separate schooling partnership than Piper High School and has its own rules and regulations. It is NOT hosted onsite at PHS and could potentially have an enrollment fee depending on a student's enrollment time and availability. The curriculum provided is via a program called Edgenuity. Please contact your student's high school counselor to learn more about this alternative option.

COURSE FEE STATEMENT

All fees are subject to change and are approved by the Board of Education.

NCAA ELIGIBILITY CENTER

To participate in athletics at a NCAA Division I or II school **AND** to receive an athletic scholarship from a NCAA Division I or II school, you must meet the NCAA Clearinghouse qualifications. In the summer between your junior and senior year you will need to register as a prospective student-athlete at the following site www.eligibilitycenter.org. There is a \$70 fee (subject to change) to register with the NCAA Eligibility Center

DOWNLOAD NCAA ELIGIBILITY CENTER CHECKLIST [HERE](#)



NCAA Scholarship Guidelines

Courses	Division I	Academic Redshirt	Division II
English	4 years	Complete 16 core courses.	3 years
Mathematics (Algebra 1 or higher)	3 years		2 years
Social Studies	2 years		2 years
Natural/Physical Science(1 must be a lab)	2 years		2 years
Additional English, mathematics, or natural/physical science	1 year		3 years
Additional courses (from any area above, foreign language or comparative religion/philosophy)	4 years		4 years
Total	16 units	16 units	16 units

[2024-2025 COURSE DESCRIPTIONS LINKED HERE](#)

LANGUAGE ARTS

Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
English 1	1	9	Placement determined by a number of factors; fastbridge percentile, current course grade, teacher recommendation, and student/teacher conference	English
Honors English 1	1	9		English
AP Seminar: English 10	1	10		English
English 3	1	11	English 2 or Honors English 2	English
AP English Language and Comp	1	11	English 2 or Honors English 2	English
English 4	1	12	English 3 or AP English Language and Comp	English
AP Literature and Composition	1	12	English 3 or AP English Language and Comp	English
Composition I (ENGL 101)	0.5	11-12	ACT English- 18+, 255+ in Reading/Writing Accuplacer	Elective
Composition II (ENGL 102)	0.5	11-12	Completion of Composition I with a "C" or higher	Elective
Public Speaking (SPCH 151)	0.5	11-12	ACT English-18+ or Accuplacer Reading/Writing 255+	Oral Comm Elective
Oral Communication	0.5	9-12		Oral Comm Elective
African American Literature	0.5	10-12	English 1 or Honors English 1	Elective
Reading Lab 9	0.5	9	20% or below on Fastbridge results and teacher recommendation	Elective
Reading Lab 10	0.5	10		Elective

ENGLISH 1

1 credit/Year

LA101A (SEM 1) AND LA101B (SEM 2)

Grade: 9

Prerequisite: None

During this course, students will read genres and selections from a wide variety of sources. Emphasis will be placed on identifying more complex literary components such as plot structure, characterization, and theme. Students will develop the skills of writing, reading, speaking, and listening.

HONORS ENGLISH 1

1 credit/Year

LA 133A (SEM 1) AND LA133B (SEM 2)

Grade: 9

Prerequisite: Course placement is based on a number of factors; Fastbridge percentile, grade in current course, teacher recommendation, and student/teacher conference.

During this course, students will analyze, synthesize, and evaluate situations, characters and settings in literature. Students will apply skills of reading and writing, engage in higher level thinking through written and verbal responses to literature, explore underlying social and cultural values of a piece of literature, and construct and communicate written and verbal arguments. Students should be prepared to assume responsibility for the amount of reading and writing for this course. The reading list for this course is available in advance from the department chair. **If you qualify for Honors English, you do NOT have to enroll. You can opt out and take regular English*

AP SEMINAR: ENGLISH 2

1 Credit/Year

LA101A AND LA101B

Grade: 10

Prerequisite: English 1 or Honors English 1

The AP Seminar: English 2 course exposes students to a variety of texts covering multiple genres, topics, and rhetorical contexts in a seminar-style setting. These courses foster students' ability to summarize and explain the salient ideas in a text by analyzing an author's perspective, rhetorical choices, and argumentative structure. Students evaluate a variety of literary, informational, and visual texts, and synthesize perspectives to develop evidence-based arguments. Students convey their findings through multiple written formats, multimedia presentations, and oral defenses. *This course provides the opportunity to take an optional AP exam, which earns students college credit if the score qualifies. See page 14 of the Introduction of this Course Guide to learn more. This course earns a weighted grade if a B or above is achieved.*

ENGLISH 3**1 credit/Year****LA014A (SEM 1) AND LA104B (SEM 2)****Grade: 11****Prerequisite: English 2 or Honors English 2**

During this course, students will read various genres and selections from the category of American Literature. Emphasis will be placed on examining specific historical and cultural events within a given time period, and then analyzing the author's background and purpose for writing. Students will refine the skills of writing, reading, speaking, and listening.

AP ENGLISH LANGUAGE AND COMPOSITION**1 credit/Year****LA108A (SEM 1) AND LA108B (SEM 2)****Grade: 11****Prerequisite: English 2 or Honors English 2**

Advanced Placement English Language is an in-depth exploration of the forces, the dreams and the ideas that have driven and continue to drive the American identity and the American spirit. Students read colonial, revolutionary, romantic, regional, transcendental and contemporary American authors in a variety of forms: novels, short stories, plays, poems and essays. The focus is on literary style, argumentation, synthesis, and research skills. This year-long class prepares students for college writing and/or the Advanced Placement (AP) language tests. If the student receives a certain score on the exam, they can receive college credit hours. This class is strongly recommended as a prerequisite for Advanced Placement English Literature and Composition.

This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as possible summer assignment(s).

ENGLISH 4**1 credit/Year****LA106A (SEM 1) AND LA106B (SEM 2)****Grade: 12****Prerequisite: English 3 or AP English Language and Composition**

During this course, students will engage in an in-depth study of literary elements focusing on, but not limited to, extended works. Various pieces of shorter literature will also be included in the reading assignments. Students will interpret and evaluate literature through class discussion, oral presentations, and written assignments. Students will improve writing skills by expanding vocabulary and grammar skills.

AP LITERATURE AND COMPOSITION**1 credit/Year****LA107A (SEM 1) AND LA107B (SEM 2)****Grade: 12****Prerequisite: English 3 or AP English Language and Composition**

During this course, students will study prose and poetry written in a variety of periods, disciplines, and rhetorical contexts, and will compose writing for a variety of purposes. Students will analyze and interpret samples of exemplary poetry, prose, and writing, create and sustain arguments based on readings, conduct research, apply effective strategies and techniques in their own writing, and write in a variety of forms and contexts. Students will read complex texts with understanding and write prose of sufficient richness and complexity to communicate effectively with mature readers. Students should be prepared to assume responsibility for the amount of reading and writing required for this course. The reading list for this course is available in advance from the department chair. This course will prepare students for the AP Literature and Comp exam in May. If the student receives a certain score on this exam, they can receive college credit for the course. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as possible summer assignment(s).**

COMPOSITION I (ENGL 101)**0.5 Credit/Semester****LA1025 (SEM 1)****Grade: 11-12****Prerequisite: English and Reading ACT 18+ or 255 or above on the Reading portion of the Accuplacer**

During this course, students will sharpen writing skills through a series of writing assignments which emphasize different themes. Students will first focus on using the writing process to produce content and then move to perfecting style and mechanics to produce papers that communicate smoothly and accurately. The course allows for practice of writing skills needed at the college level. *This course can be taken for 3 hours of college credit through KCKCC and may fulfill an English class that would be required for a bachelor's degree. This course does*

not count as English 4 credit; it would be taken in addition to your required English 4 course. The tuition is \$89/credit hour.

COMPOSITION II (ENGL 102)

0.5 Credit/Semester

LA1026 (SEM 2)

Grade: 11-12

Prerequisite: Completion of Composition 1 with a C or higher

During this course, students will practice and improve research, bibliographic, and writing skills. Students will write a minimum of four graded documented essays in MLA format. *This course can be taken for 3 hours of college credit through KCKCC and may fulfill an English class that would be required for a bachelor's degree. This course does not count as English 4 credit; it would be taken in addition to your required English 4 course. The tuition is \$89/credit hour.*

PUBLIC SPEAKING (SPCH 151)

0.5 Credit/Semester

LA1027

Grade: 11-12

Prerequisite: English and Reading ACT 18+ or 255 or above on the Reading portion of the Accuplacer

During this course, students will communicate orally through public speaking. Students will learn to select topics, analyze their audience, organize and gather support for a speech, improve delivery skills, reduce communication apprehension, listen for information and evaluation purposes, and distinguish between different types of speeches. Students will deliver a minimum of four speeches during the course. *This course can be taken for 3 hours of college credit through KCKCC and may fulfill a class that would be required for a bachelor's degree. This course does count towards the required oral communications graduation requirement. The tuition is \$89/credit hour.*

ORAL COMMUNICATION

0.5 Credit/Semester

LA1032

Grade: 9-12

Prerequisite: None

During this course, students will learn presentation skills that will transfer to a variety of post-high school environments. Students will learn the "art" of effective speech design, will write their own pieces, and will deliver speeches on a variety of topics.

AFRICAN AMERICAN LITERATURE

0.5 Credit/Semester

LA2311

Grade: 10-12

Prerequisite: English 1 or Honors English 1

Students will engage with texts from four major eras of American History: The Great Northern Migration, the Harlem Renaissance, the Civil Rights Movement, and present day. We will explore non-fiction, short stories, plays, speeches, poetry, songs, and art – both historical and contemporary – created by, for, and about African-Americans.

READING LAB 9

0.5 Credit/Semester

LA1036

Grade: 9

Prerequisite: 20%ile or below on Fastbridge assessment and teacher recommendation

This course is designed to provide reteaching for qualifying students in basic literacy strategies; phonics, fluency, vocabulary, comprehension, etc. Students are placed in this course if they receive a 20% or below on their fastbridge assessment and are recommended by their teacher. Students who fall below the 20%ile but do not qualify for Reading Lab (Tier 3) will receive Tier 2 support during another selected time in their schedule (i.e. advisory). This is an elective course and is taken concurrently with English 9.

READING LAB 10

0.5 Credit/Semester

LA1036

Grade: 10

Prerequisite: 20%ile or below on Fastbridge assessment and teacher recommendation

This course is designed to provide reteaching for qualifying students in basic literacy strategies; phonics, fluency, vocabulary, comprehension, etc. Students are placed in this course if they receive a 20% or below on their fastbridge assessment and are recommended by their teacher. Students who fall below the 20%ile but do not

qualify for Reading Lab (Tier 3) will receive Tier 2 support during another selected time in their schedule. This is an elective course and is taken concurrently with English 10.

MATHEMATICS

Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Math Lab	1	9-10	20% or below on Fastbridge results and teacher recommendation	Elective
Algebra 1	1	9	Math 8, Accelerated Math 8, or Algebra 1	Math
Geometry	1	9-10		Math
Honors Geometry	1	9-10		Math
Geometry in Construction	2	9-10	Math 8, Accelerated Math 8, Algebra 1 <i>*recommended for Design, Production and Aviation students</i>	Tech Math
Algebra 2	1	10-12	Geometry or Honors Geometry	Math
Honors Algebra 2	1	10-12		Math
Advanced/College Algebra	1	11-12	Honors Algebra 2 or Algebra 2 Optional for college credit via Baker University	Math
AP Pre-Calc	1	11-12	Algebra 2 or Honors Algebra 2	Math
Statistics	1	11-12	Algebra 2 or Honors Algebra 2	Math
AP Calculus AB	1	11-12	AP Pre-Calculus	Math
AP Statistics	1	12	AP Pre-Calculus	Math

MATH LAB

1 credit/Year

MA227A (SEM 1) AND MA227B (SEM 2)

Grade: 9-10

Prerequisite: 20%ile or below on Fastbridge assessment and teacher recommendation

This course is designed to provide students at the 20% or below on Fastbridge assessments the requisite skills needed for successful completion of Algebra 1. Students who fall below the 20%ile but do not qualify for Math Lab (Tier 3) will receive Tier 2 support during another part of their day (i.e. advisory). Strategies that will enhance a student's ability to find success in high school mathematics classes will be used in this class. This course will be taken concurrently with Algebra 1. This is a PASS/FAIL course. It counts as an elective credit.

ALGEBRA 1

1 credit/Year

MA201A (SEM 1) AND MA201B (SEM 2)

Grade: 9

Prerequisite: Course placement is based on a number of factors; Fastbridge percentile, grade in current course, teacher recommendation, and student/teacher conference

Students enrolled in this course will master algebraic skills that are an essential foundation for upper level math courses. This course links the previous study of algebraic concepts with an extensive study of the real number system. In addition to a focus on the language of Algebra, vocabulary, and technical reading, students will cover equations and inequalities, polynomials, exponents, applications of factoring, geometry, functions, graphing, quadratic equations, and modeling to establish Algebra's connections to the real world.

GEOMETRY

MA205A (SEM 1) AND MA205B (SEM 2)

Grade: 9,10

1 credit/Year

Prerequisite: Course placement is based on a number of factors; Fastbridge percentile, grade in current course, teacher recommendation, and student/teacher conference

During this course, students will learn fundamental geometric concepts and skills. Indicators from all four KS Math Standards will be included, but a higher emphasis will be placed on Standard 3-Geometry. Learning activities will include radical expressions, patterns involving geometric figures, the use of two and three-dimensional models, and application of theorems and postulates.

HONORS GEOMETRY

1 credit/Year

MA206A (SEM 1) AND MA206B (SEM 2)

Grade: 9-10

Prerequisite: Course placement is based on a number of factors; Fastbridge percentile, grade in current course, teacher recommendation, and student/teacher conference

During this course, students will learn fundamental geometric concepts and skills. Indicators from all four KS Math Standards will be included, but a higher emphasis will be placed on Standard 3-Geometry. The class pace and depth of content are enhanced. Learning activities will include radical expressions, patterns involving geometric figures, the use of two- and three-dimensional models, and application of theorems and postulates. **This course earns a weighted grade.**

GEOMETRY IN CONSTRUCTION

2 credits/Year

Grade: 9-10

Prerequisite: Math 8, Accelerated Math 8, or Algebra 1. Preference given to Design, Production and Aviation students

Geometry in Construction is a class that will show the relevance of Geometry through building various structures. Geometry will be learned and applied through the construction of a larger class project (examples from other districts; shed, tiny home, etc). Students will complete their OSHA certification during this course. Students will be double-blocked and achieve a Geometry and Industrial Technology credit. This course aligns with several sectors within the Design, Production and Aviation Academy.

ALGEBRA 2

1 credit/Year

MA209A (SEM 1) AND MA209B (SEM 2)

Grade: 10-12

Prerequisite: Geometry or Honors Geometry

During this course, students will increase their knowledge of mathematics and skills related to Standard 2-Algebra. Units of study will include solving and graphing equations (linear, quadratic, radical), systems of equations and inequalities, factoring, polynomials, complex numbers, matrices, and conic sections.

HONORS ALGEBRA 2

1 credit/Year

MA225A (SEM 1) AND MA225B (SEM 2)

Grade: 10-12

Prerequisite: Geometry or Honors Geometry

During this course, students will increase their knowledge of mathematics and skills related to Standard 2-Algebra. Units of study will include solving and graphing equations (linear, quadratic, radical), systems of equations and inequalities, factoring, polynomials, complex numbers, matrices, and conic sections, plus rational expressions and exponents, radical functions, probability and statistics, and trigonometric graphs, identities and equation. **This course earns a weighted grade and requires more in-depth study of the curriculum.**

ADVANCED/COLLEGE ALGEBRA

1 credit/Year

MA214A (SEM 1) AND MA214B (SEM 2)

Grade: 11-12

Prerequisite: Algebra 2 or Honors Algebra 2. For college credit, students must complete enrollment paperwork with high school counselor

College Algebra includes a brief review of Algebra 2; analysis and graphing of functions, including constant, linear, absolute value, square root, polynomial, rational, exponential and logarithmic functions and non-functions; and solving equations and inequalities, including polynomial equations, exponential equations, logarithmic equations, and systems of linear equations and inequalities. Students will be expected to use appropriate technology as one tool to achieve competency in College Algebra. *This course can be taken for 3 hours of college credit through Baker University and may fulfill a math class that would be required for a bachelor's degree. The cost per credit hour is approximately \$118 per credit hour.*

AP PRE-CALCULUS

1 credit/Year

MA210A (SEM 1) AND MA210B (SEM 2)

Grade: 11-12

Prerequisite: Algebra Honors Algebra 2. For college credit, students must complete enrollment paperwork with high school counselor and must meet one of the following requirements; (1) receive a 21 or higher on the math portion of the ACT OR (2) an accuplacer score of 263 or higher

Pre-Calculus includes the analysis and graphing of functions, including constant, linear, absolute value, square root, polynomial, rational, exponential and logarithmic functions and non-functions; solving equations and inequalities, including polynomial equations, exponential equations, logarithmic equations, systems of linear equations and inequalities. **This course earns a weighted grade and requires more in-depth study of the curriculum.** *This course can be taken for 5 hours of college credit through KCKCC and may fulfill a math class that would be required for a bachelor's degree. The cost per credit hour is approximately \$89 per credit hour.*

STATISTICS

1 credit/Year

MA216A (SEM 1) AND MA216B (SEM 2)

Grade: 11, 12

Prerequisite: Algebra 2 or Honors Algebra 2

Statistics courses involve the major concepts and methods used to collect, analyze, and draw conclusions from data. Topics typically include populations and samples, measures of central tendency and variability, hypothesis testing, presentation, and making statistical inferences.

AP CALCULUS AB

1 credit/Year

MA212A (SEM 1) AND MA212B (SEM 2)

Grade: 12

Prerequisite: AP Pre-Calc

The content of AP Calculus corresponds to the content of a first-year college calculus course with limit theory, differentiation, and integration as its major themes. The course also follows the model of the Advanced Placement (AP) Calculus AB course. Graphing calculator technology is incorporated throughout the course. Students will be encouraged to take the AP exam in May. If a student receives a certain score on the exam, they can receive college credit for this course. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

AP STATISTICS

1 credit/Year

MA204A (SEM 1) AND MA204B (SEM 2)

Grade: 12

Prerequisite: AP Pre-Calc

Students are introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. College-bound students who plan to enter such fields as economics, business, journalism, education, research, psychology, sociology, biology, and medicine, benefit from this course. Topics for this course include exploring data, experimental design, probability and simulation, and statistical inference. Students will be encouraged to take the AP exam in May. If a student receives a certain score on the exam, they can receive college credit for this course. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as possible summer assignment(s).**

SCIENCE

Course Name	Credit	Grade(s)) Offered	Prerequisite	Type of Credit
Biology 1	1	9	Placement determined by a number of factors; fastbridge percentile, current course grade, teacher recommendation, and student/teacher conference	Science
Honors Biology 1	1	9		Science
Environmental Science	1	9-12	Concurrent enrollment of Biology or Honors Bio	Science
Animal Science	0.5	10-12	Environmental Science	Elective Science
Advanced Animal Science	0.5	11-12	Animal Science	Elective Science
Plant and Soil Sciences	1	10-12	Environmental Science	Science
Greenhouse Production Management	1	11-12	Plant and Soil Sciences	Science
Application of Horticulture	1	12	Greenhouse Production and Management	Elective Science
Physical Science	1	10-12	Biology 1 or Honors Biology 1	Science
Chemistry 1	1	10- 12	Biology 1 and Algebra 2/Honors Algebra 2 or concurrent enrollment of Algebra 2/Honors Algebra	Science

AP Chemistry	1	11-12	Chemistry 1	Science
Physics 1	1	11-12	Concurrent enrollment or completion of Chemistry 1	Science
AP Physics	1	11-12	Chemistry 1, Physics 1 recommended	Science
AP Biology	1	11-12	Biology or Honors Biology and Chemistry	Science
Anatomy and Physiology	1	10- 12	Biology 1 or Honors Biology 1	Science
Principles of Biomedical Science	1	9-12	Biology 1 or concurrent enrollment in Biology 1	Science
Human Body Systems	1	10-12	Principles of Biomedical Science	Science
Medical Interventions	1	11-12	Human Body Systems	Science
Biomedical Innovation	1	12	Medical Interventions	Science
Biomedical Engineering	1	12	Medical Interventions	Science
Forensic Science I	1	10-12	Intro to Law, Public Services, and Security	Science
Forensic Science 2	1	11-12	Forensic Science 1	Science

BIOLOGY 1

1 Credit/Year

SC303A (SEM 1) AND SC303B (SEM 2)

Grade: 9

Prerequisite: None

During this required course, students will review basic scientific principles and learn about the study of living things. The course will include sections covering the chemistry of life, ecology, cells, genetics, DNA, evolution and the history of life on our planet. Laboratory investigations as well as group and individual projects will play a role in challenging students to problem solve and think critically.

HONORS BIOLOGY 1

1 Credit/Year

SC318A (SEM 1) AND SC318B (SEM 2)

Grade: 9

Prerequisite:

Honors Biology is an introduction to the study of living things and their interdependence with the environment. This course will emphasize the development of student's scientific process skills, laboratory techniques, and an understanding of the fundamental principles of living organisms. Students will explore biological science as a process, cell structure and function, genetics and heredity, evolution and classification, diversity of living organisms and their ecological roles, and an introduction to animal structure and function. This honors course places a higher priority on developing critical thinking skills by examining real world problems. The honors curriculum examines topics with more depth and includes more advanced resource material in addition to the adopted text. Laboratory investigations play a prominent role and are more sophisticated than in the regular curriculum and students are expected to design and carry out experiments using appropriate methods and resources. Students taking this course should have a genuine interest in taking AP Biology. **This course earns a weighted-grade and requires more in-depth study of the curriculum.**

ENVIRONMENTAL SCIENCE

1 Credit/Year

HS104A(SEM 1) AND HS104B(SEM 2)

Grade: 9-12

Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

ANIMAL SCIENCE

1.0 Credit/Semester

HS100A (SEM 1) AND HS100B (SEM 2)

Grade: 10-12

Prerequisite: Environmental Science

Animal Science covers information about the care and management of domestic and farm animals including, but not limited to animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study particular species or they may learn how to care for and maintain livestock as a more inclusive study.

ADVANCED ANIMAL SCIENCE
HS101A (SEM 1) AND HS101B (SEM 2)

1.0 Credit/Semester

Grade: 11-12

Prerequisite: Animal Science

Advanced Animal Science takes a deeper dive into the care and management of domestic and farm animals including, but not limited to, animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study particular species or they may learn how to care for and maintain livestock as a more inclusive study.

PLANT AND SOIL SCIENCES (BOTANY/ECOLOGY)
ST230A (SEM 1) AND ST230B (SEM 2)

1.0 Credit/Semester

Grade: 10-12

Prerequisite: Environmental Science

Courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agriculture crops and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils & media mixtures, soil chemistry, fertility, mineralogy, hydrology, soil conservation, irrigation, fruit and vegetable production, turf/golf course management, interior and exterior landscaping, irrigation systems, weed & pest control, & floral design.

GREENHOUSE PRODUCTION MANAGEMENT
HS104A (SEM 1) AND HS104B (SEM 2)

1 Credit/Year

Grade: 11-12

Prerequisite: Plant and Soil Sciences

Students will have the opportunity to produce, market different types of greenhouse plants grown in the school's greenhouse. Skills in management, plant identification, pests control, starting plants, watering, fertilizing, and salesmanship will be developed.

APPLICATION OF HORTICULTURE
HS105A (SEM 1) AND HS105B (SEM 2)

1 Credit/Year

Grade: 11-12

Prerequisite: Greenhouse Production and Management

Applications in Horticulture provides instruction that incorporates plant science, soil and media mixtures, plant identification and optimal environments, and landscape design. This course will expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agriculture crops and vegetables. The course emphasizes applying such knowledge & skill to the design, establishment, and maintenance of lawns, parks, open space & similar environments. This course would include opportunities to design public and private spaces. Students will have the opportunity to produce, market different types of greenhouse plants grown in the school greenhouse. Skills in management, plant identification, pests control, starting plants, watering, fertilizing, and salesmanship will be developed.

PHYSICAL SCIENCE
SC311A (SEM 1) AND SC311B (SEM 2)

1 Credit/Year

Grade: 10-12

Prerequisite: Biology

During this course, students will demonstrate the ability to use the scientific method and cover introductory physics and chemistry concepts. Topics that will be covered include: force, motion, matter, energy, earth and space science, the structure of the atom, the different states and properties of matter, chemical bonding, the basic concepts of chemical reactions, inorganic and organic nomenclature, the relationships between the conservation of mass and energy, and measurement skills.

CHEMISTRY 1
SC307A (SEM 1) AND SC307B (SEM 2)

1 Credit/Year

Grade: 10-12

Prerequisite: Biology 1 and Algebra 2, Honors Algebra 2 or concurrent enrollment of Algebra 2/Honors Algebra 2

During this course, students will learn about the scientific method, characteristics of matter, scientific measurement, atomic theory, periodic trends and properties, inorganic nomenclature, mole relationships and calculations, formulas, chemical reactions, stoichiometry, kinetic molecular theory, thermochemistry, acids and bases, bonding, and equilibrium.

AP CHEMISTRY**1 Credit/Year****SC317A (SEM 1) AND SC317B (SEM 2)****Grade: 11-12****Prerequisite: Chemistry 1**

During this course, students will learn the structure of matter, kinetic theory of gasses, chemical equilibria, chemical kinetics, and the basic concepts of thermodynamics. AP Chemistry is designed to provide the student with the equivalent of an introductory first year course sequence in College Chemistry. This course is designed for college-bound students who would either like to earn college credit (through AP examination) or would like to prepare for college chemistry in high school. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

AP BIOLOGY**1 Credit/Year****SC305A (SEM 1) AND SC305B (SEM 2)****Grade: 11-12****Prerequisite: Biology, Chemistry**

This course is designed to extend students' understanding of biology by providing an in-depth study of fundamental concepts. Emphasis is placed on laboratory experiences and problem solving. Topics include molecules and cells, heredity and evolution, organisms and populations. This course prepares students for the Advanced Placement (AP) Biology Exam. If a student receives a certain score on this examination, they can achieve college credit for this course. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

PHYSICS 1**1 Credit/Year****SC309A (SEM 1) AND SC309B (SEM 2)****Grade: 11-12****Prerequisite: Biology 1, concurrent enrollment or completion of Chemistry 1**

During this course, students will learn about and use concepts of sources and properties of energy, forces and motion, safety, kinematics, electricity and magnetism, and nuclear physics.

AP PHYSICS**1 Credit/Year****SC310A (SEM 1) AND SC310B (SEM 2)****Grade: 11-12****Prerequisite: Chemistry, Physics 1 recommended**

During this course, students will learn Newtonian Mechanics, fluid mechanics, electricity and magnetism, waves and optics, and atomic nuclear physics. This course prepares students for the Advanced Placement (AP) Physics Exam. If a certain score is achieved on this exam, college credit can be awarded. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

ANATOMY AND PHYSIOLOGY**1 Credit/Year****SC304A (SEM 1) AND SC304B (SEM 2)****Grade: 10-12****Prerequisite: Biology 1 or Honors Bio 1**

During this course, students will learn about the gross structures and functions in the human organism, abnormal pathological conditions that exist in humans, laboratory skills and dissection techniques. Student learning will focus on all body systems: skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, immune, digestive, reproductive etc. **Students should carefully consider the extra time needed for this challenging course.**

PRINCIPLES OF BIOMEDICAL SCIENCE**1 credit/Year****ST2000 (SEM 1) AND ST2002 (SEM 2)****Grade: 9-12****Prerequisite: Successful completion of or concurrent enrollment in Biology**

This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes

and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

HUMAN BODY SYSTEMS

1 Credit/Year

ST2001 (SEM 1) AND ST200B (SEM 2)

Grade: 10-12

Prerequisite: Principles of Biomedical Science

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Mannequin; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

MEDICAL INTERVENTIONS

1 Credit/Year

ST2003 (SEM 1) AND ST2004 (SEM 2)

Grade: 11, 12

Prerequisite: Principles of Biomedical Science (PBS) and Human Body Systems (HBS)

In Medical Interventions (MI), students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

BIOMEDICAL INNOVATION: CAPSTONE COURSE FOR BIOMEDICAL- PLTW

1 Credit/Year

ST201A (SEM 1) AND ST201B (SEM 2)

Grade: 12

Prerequisite: Medical Interventions

In this capstone course, students will design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They will apply their knowledge and skills to answer questions or to solve problems related to the biomedical sciences. They may work with a mentor or advisor from a university, hospital, physician's office, or industry as they complete their work. Students will be expected to present the results of their work to an adult audience, which may include representatives from the local healthcare or business community or the school's biomedical partnership team.

BIOTECHNICAL ENGINEERING- CAPSTONE COURSE FOR BIOCHEMISTRY

1 Credit/Year

ST201A (SEM 1) AND ST201B (SEM 2)

Grade: 12

Prerequisite: Medical Interventions

Biotechnical Engineering courses enable students to develop and expand their knowledge and skills in biology, physics, technology, and mathematics. Course content may vary widely, drawing upon diverse fields such as biomedical engineering, biomolecular genetics, bioprocess engineering, agricultural biology, or environmental engineering. Students may engage in problems related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interfaces, bioprocesses, forensics, and bioethics.

FORENSIC SCIENCE 1

1.0 Credit/Semester

PS1001

Grade: 10-12

Prerequisite: Intro to Law, Public Services, and Security, Biology, Concurrent Enrollment in Chemistry

An application level course that follows a background in biology and chemistry and provides students with a basic knowledge and skills needed to pursue postsecondary training in LPSS careers requiring Forensic Science (ie., Forensic Anthropology, Forensic Medicine, Medical Examiner).

FORENSIC SCIENCE 2

1 Credit/Semester

PS1002

Grade: 11-12

Prerequisite: Forensic Science 1, Chemistry

An application level course that expands upon skills learned in the technical level course and provides students with knowledge and skills needed to pursue postsecondary training in LPSS careers requiring Forensic Science (i.e., Forensic Anthropology, Forensic Medicine, Medical Examiner). **Students who completed Forensic Science 1 (0.5 credit) during 2022-2023 meet the forensic science prerequisite requirement for this course.*

SOCIAL SCIENCE

Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
World History	1	10		Social Studies
AP European History	1	10		Social Studies
American History	1	11	World History or AP Euro	Social Studies
AP U.S. History	1	11	World History or AP Euro	Social Studies
College US Hist to 1877	0.5	11	World History or AP Euro	Social Studies
College US Hist from 1877	0.5	11	College US Hist to 1877	Social Studies
American Government	0.5	12	American History or AP U.S. History	Social Studies
AP U.S. Government and Politics	1	12	American History or AP American History	Social Studies SS Elective
Psychology	0.5	11-12		SS Elective
AP Psychology	1	12	Psychology	SS Elective
Economics	0.5	11-12		SS Elective
Current Social Issues	0.5	11-12		SS Elective
College Microeconomics (EC242)			Only offered as Dual Credit ONLINE via Baker University	SS Elective
Sociology	0.5	11-12		SS Elective
College Psychology (PSYC 101)	0.5	11-12	18 or higher on English and Reading ACT or Accuplacer Reading/Writing-255+	SS Elective
College Sociology (SOSC 107)	0.5	11-12	18 or higher on English and Reading ACT or Accuplacer Reading/Writing-255+	SS Elective
College Introduction to Christianity (RE106)	0.5	11-12	Only offered as Dual Credit ONLINE via Baker University	SS Elective

WORLD HISTORY

1 Credit/Year

SS401A (SEM 1) AND SS401B (SEM 2)

Grade: 10

The World History course covers the time period from around 1300 C.E. through the fall of Communism in the early 1990's. Students will analyze events in Europe and their impact on the modern world. Students will identify personal perspectives and focus on comparing political developments.

AP EUROPEAN HISTORY

1 Credit/Year

SS450A (SEM 1) AND SS450B (SEM 2)

Grade: 10

AP European History focuses on developing students' abilities to think conceptually about European history from approximately 1450 to the present and apply historical thinking skills as they learn about the past. Five themes of equal importance - interaction of Europe and the World, Poverty and Prosperity, Objective Knowledge and Subjective Visions, States and Other Institutions of Power, and Individual and Society - provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places.

This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).

AMERICAN HISTORY

1 Credit/Year

SS405A (SEM 1) AND SS405B (SEM 2)

Grade: 11

Prerequisite: World History or AP European History

During this course, students will focus on American History starting with the end of the 19th century. Emphasis will be placed upon learning the cause and effect for events and relating the past to the present. Students will gain an understanding of significant individuals, groups, ideas, events, and eras in US history and the world. Students will

develop essential skills in analysis and research. Chronological organization and geographical literacy will be emphasized.

AP U.S. HISTORY

1 Credit/Year

SS406A (SEM 1) AND SS406B (SEM 2)

Grade: 11

Prerequisite: World History or AP European History

During this course, students will integrate political, social, economic, cultural, and diplomatic history in order to understand the experiences of particular groups within the broader perspective of the American past. Students will connect events and issues from the past to the present. Point of view, political dynamics, and economic patterns will be emphasized. Students may take the Advanced Placement (AP) test for AP U.S. History in May to try and achieve college credit. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

US HISTORY TO 1877

0.5 Credit/Year

SS

Grade: 11

Prerequisite: World History or AP Euro

This course surveys the history of colonial America and the United States to the Reconstruction, paying particular attention to the socioeconomic, ethnic, cultural, political and ideological diversity of the American people. **Dual credit enrollment required, 3 credit hours via Baker University*

US HISTORY FROM 1877

0.5 Credit/Year

SS

Grade: 11

Prerequisite: US History to 1877

This course surveys the history of the United States following Reconstruction, to the present, paying particular attention to the socioeconomic, ethnic, cultural, political, and ideological diversity of the American people. **Dual credit enrollment required, 3 credit hours via Baker University*

AMERICAN GOVERNMENT

0.5 Credit/Year

SS4008

Grade: 12

Prerequisites: American History or AP U.S. History

During this course, students will learn about the major economic and governmental systems. Special emphasis will be placed on the US constitutional system. The function of government, including the legislative, executive and judicial branches will be major topics of study.

AP U.S. GOVERNMENT AND POLITICS

1 Credit/Year

SS409A (SEM 1) AND SS409B (SEM 2)

Grade: 12

Prerequisite: American History or AP American History

During this course, students will learn about the important facts, concepts and theories pertaining to US Government and Politics. They will study general concepts used to interpret US politics and will analyze specific examples. Students will demonstrate an understanding of typical patterns of the political process, the principles used to explain or justify various government structures and procedures, and the effects of structures and procedures. Students are encouraged to take the AP exam in May. If a certain score is achieved on this exam, you can earn college credit. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

PSYCHOLOGY

0.5 Credit/Year

SS4013

Grade: 11-12

Prerequisite: None

During this course, students will learn about personality theories, human development, abnormal behaviors and treatments of mental health as well as ways to change and improve personal behavior.

AP PSYCHOLOGY**1 Credit/Year****SS414A (SEM 1) AND SS414B (SEM 2)****Grade: 12****Prerequisite: None**

During this course, students will analyze and compare various personality theories, apply personality theories to the treatment of mental illness, examine all aspects of human development and assess key factors in that development, write extensively about their opinions on illnesses and treatment techniques, conduct research and develop, perform, and write a reaction paper to a psychological experiment. Students may take the Advanced Placement (AP) Psychology test in May to try and achieve college credit for this course. **This course earns a weighted-grade and requires more in-depth study of the curriculum. Students should carefully consider the extra time needed for this challenging course. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

ECONOMICS**0.5 Credit/Semester****SS4011****Grade: 11-12****Prerequisite: None**

During this course, students will learn about economic systems, supply and demand, price determination, markets, GDP, money, investment, federal budgets, and the New York Stock Exchange. Students will develop skills in investing, money management, financial planning and obtaining loans for home and cars.

CURRENT SOCIAL ISSUES**0.5 Credit/Semester****SS4200****Grade: 11-12****Prerequisite: None**

Using current events as a catalyst for engagement, we will explore social issues facing our modern society. The course is designed to create an engaged and thoughtful citizen. The course will be focused on having students understand and analyze various sources and draw conclusions from the information the media portrays. It will also focus heavily on how these current social issues impact the career field in which the student is interested. .

COLLEGE MICROECONOMICS VIA BAKER UNIVERSITY**0.5 Credit/Semester****SS4012- Local HS Course Coding****EC242- College Course Coding for Baker University****Grade: 11-12****Prerequisite: Economics**

Microeconomics is the study of how businesses operate and the influence that economic decision making has on markets, industries, and competition. In this course, students will explore what it means to think on the margin and understand the key principles of economics, including supply and demand; the impact of cost, utility, and externalities on businesses and markets; the impact of government policies and taxing; different forms of markets; the roles of profit and elasticity and competition; wages and how production decisions are made; and the factors of production. *This course requires enrollment at Baker University and costs \$113 per credit hour. It is offered as dual credit as an online course.*

SOCIOLOGY**0.5 Credit/Semester****SS4015****Grade: 11-12****Prerequisite: None**

During this course, students will study human relationships, our culture, the organization of society, and the major problems that societies face today. Students will analyze data and search for answers to problems. Emphasis will be placed on social institutions and the individual's place in our society.

COLLEGE PSYCHOLOGY (PSYC 101)**0.5 Credit/Semester****SS4018 (SEM 2)****Grade: 11-12****Prerequisite: English and Reading ACT 18+ or 255 or above on the Reading portion of the Accuplacer**

During this course, students will be introduced to the basic concepts, theories, and research findings in the evolving field of psychology. Students will learn to think psychologically, by gaining insight into themselves and the dynamics of human thinking, behavior, and emotions. *This course can be taken for 3 hours of college credit through KCKCC and may fulfill a social science class that would be required for a bachelor's degree.*

COLLEGE SOCIOLOGY (SOSC 107)**0.5 Credit/Semester****SS4019****Grade: 11-12****Prerequisite:** English and Reading ACT 18+ or 255 or above on the Reading portion of the Accuplacer

During this course, students will get a general introduction to the field of sociology. It includes both a study of the theoretical aspects, as well as the actual behavior pattern of human groups and associations. Emphasis is placed on scientific evidence to illustrate and illuminate sociological theories and principles. *This course is taken via KCKCC for dual credit. It costs \$89 per credit hour and is 3 total credit hours.*

COLLEGE INTRODUCTION TO CHRISTIANITY (RE106) VIA BAKER UNIVERSITY**0.5 Credit/Semester****SS4020****Grade: 11-12****Prerequisite:** None

Our charted path for this includes an introduction to Christianity in general and foundational lessons on the Bible and the origins of Christianity. The course also provides an understanding of the core beliefs and practices of early Christians and a period-by-period snapshot of how those core beliefs and practices evolved as well as the historical, philosophical, scientific, and cultural events that shaped that evolution. To close, the course recaps where Christians are today with regard to doctrine and practice (retracing our steps from the early church to today) and how Christians are confronting issues in the 21st century. *This course requires enrollment at Baker University and costs \$113 per credit hour.*

PHYSICAL EDUCATION

Course Name	Credit	Grade(s) Offered	Prerequisite
Physical Education	0.5	9	Required for Graduation
Health	0.5	9	Required for Graduation
Physical Education 2	0.5	10, 11, 12	Physical Education 1
Low Impact Circuit Training	0.5	10, 11, 12	Physical Education 1
Strength and Conditioning 1	0.5	9, 10, 11, 12	
Strength and Conditioning 2	0.5	10, 11, 12	Strength and Conditioning 1
Strength and Conditioning 3	0.5	10, 11, 12	Strength and Conditioning 2
CORE	0.5	9	Required for 9 th grade starting grad year 2023

PHYSICAL EDUCATION & HEALTH 1**1 credit/Year****PE811A (PE) AND PE811B (HEALTH)****Grade: 9****Prerequisite:** None

During this course, students will learn to demonstrate basic knowledge in motor skills and movement patterns needed for a variety of physical activities. Students will actively participate and maintain a health-enhancing level of physical fitness while exhibiting responsible personal and social behaviors. Students will self-evaluate current health/fitness levels and create a personal exercise program. Students will be introduced to all forms of Health Education, including the mental, physical and emotional aspects. The concepts emphasized will be nutrition and eating disorders, benefits of exercise, bullying and unhealthy relationships, STD's and communicable diseases, alcohol, tobacco, drugs, making healthy and informed decisions, muscles and bones and managing stress.

PHYSICAL EDUCATION 2**0.5 Credit/Semester****PE8012****Grade: 10-12****Prerequisite:** Physical Educ. 1 and Health

During this course, students will learn and master rules and strategies in a variety of individual, team and lifetime activities and games. Students will actively participate in physical activities appropriate for maintaining and enhancing a healthy and active lifestyle.

LOW IMPACT CIRCUIT TRAINING**0.5 Credit/Semester****PE8004****Grade: 10-12**

Prerequisite: Physical Educ. 1 and Health

During this course, students will experience and acquire skills in toning, strengthening, and conditioning through low impact activities. They will analyze and measure personal daily nutrition, activity and lifestyle factors. Activities will include weight training, tae bo, core strengthening, step aerobics, power walking, kickboxing, Pilates, yoga and cardiovascular training.

STRENGTH AND CONDITIONING 1**0.5 Credit/Semester****PE8013****Grade: 9-12****Prerequisite: None**

During this course, students will learn about and acquire basic skills in strength and conditioning through weight training. Fitness components will include strength, endurance, flexibility, cardiovascular endurance, reaction time-agility, speed, power, balance and coordination.

STRENGTH AND CONDITIONING 2**0.5 Credit/Semester****PE8014****Grade: 10-12****Prerequisite: Strength & Conditioning 1**

During this course, students will gain knowledge of personal fitness program components. They will then design a personal fitness program based on individual goals.

STRENGTH AND CONDITIONING 3**0.5 Credit/Semester****PE8008****Grade: 10-12****Prerequisite: Strength & Conditioning 2**

In this course, students will learn about and acquire advanced skills in strength and conditioning through weight training. Fitness components will include strength, endurance, flexibility, cardiovascular endurance, reaction time, agility, speed, power, balance and coordination.

CORE: College/Career Readiness, Learning Opportunities, Responsible Citizenship, School Engagement
FC0900

Grade: required 9th grade**0.5 Credit/Semester****Prerequisite: none**

This is a required course for 9th grade students transitioning to Piper High School. It is designed around CASEL's (The collaborative for academic, social and emotional learning) social and emotional learning competencies. These competencies are social awareness, self-awareness, self-management, relationship skills, and responsible decision making. The School-Connect curriculum used in the course enables students to participate in modules that cover a variety of Social Emotional learning topics. Some of these topics include, but are not limited to, organizational skills, employability skills, responsible social media behaviors, managing emotions, reducing stress, healthy relationships, college and career readiness, responsible decision making and much more.

WORLD LANGUAGE

**two years of the same foreign language is highly recommended*

Course Name	Credit	Grades Offered	Prerequisite	Type of Credit
Spanish 1	1	9, 10, 11, 12		Elective
Spanish 2	1	9, 10, 11, 12	Spanish 1	Elective
Spanish 3	1	10, 11, 12	Spanish 2 Offered as a 5 credit hour dual credit course via Donnelly	Elective
AP Spanish	1	12	Spanish 3 or College Spanish	Elective
College Latin 1 (LN101)	0.5	11-12	Only offered as Dual Credit ONLINE via Baker University	Elective

SPANISH 1**1 Credit/Year****WL601A (SEM 1) AND WL601B (SEM 2)****Grade: 9-12****Prerequisite: None**

Spanish 1 is designed to meet the needs of students with little or no experience with the Spanish language. Students will engage with the Spanish language utilizing the 5 C's of foreign language education: Communication, Culture, Connections, Communities and Comparisons. Students will communicate using basic vocabulary and

grammatical structures based in the present tense. Students will be exposed to culture from Spanish speaking areas of the world and will be encouraged to draw comparisons to their own experiences. Students will demonstrate an increased awareness of Spanish speaking communities and connections between this course and other content areas. Students are expected to attend class regularly and participate for their own benefit. There will be frequent out of class preparation and practice required in order for the student to be successful. In order to support student language development this course will be taught as much as possible in Spanish.

SPANISH 2

1 Credit/Year

WL602A (SEM 1) AND WL602B (SEM 2)

Grade: 10-12

Prerequisite: Spanish 1

Spanish 2 is designed to meet the needs of students who have some experience with the Spanish language. Students will engage with the Spanish language utilizing the 5C's of foreign language education: Communication, Culture, Connections, Communities, and Comparisons. Students will communicate using increasingly complex vocabulary and grammatical structures based in the present and past tenses. Students will be exposed to culture from Spanish speaking areas of the world and will be encouraged to draw comparisons to their own experiences. Students will demonstrate an increased awareness of Spanish speaking communities and connections between this course and other content areas. Students are expected to attend class regularly and participate for their own benefit. There will be frequent out of class preparation and practice required in order for the student to be successful. In order to support student language development this courses will be taught as much as possible in Spanish.

SPANISH 3

1 Credit/Year

WL603A (SEM 1) AND WL603B (SEM 2)

Grade: 10-12

Prerequisite: Spanish 2

Spanish 3 is designed to meet the needs of students who are ready to work more intently with the Spanish language in a variety of settings. Students will engage with the Spanish language utilizing the 5 C's of foreign language education: Communication, Culture, Connections, Communities, and Comparisons. Students will communicate daily using increasingly complex vocabulary and grammatical structures using the present and past tense. Students will be exposed to the subjunctive tense. Students will be exposed to culture from Spanish speaking areas of the world utilizing authentic material and literature. Students are expected to attend class regularly and participate for their own benefit. There will be frequent out of class preparation and practice required in order for the student to be successful. In order to support student language development this course will be taught as much as possible in Spanish.

****This course can be taken as a 5 hour college course via Donnelly College. After course requests, anyone that requested Spanish 3, will be sent information about this opportunity and how to register if interested.***

AP SPANISH

1 Credit/Year

WL605A (SEM 1) AND WL605B (SEM 2)

Grade: 12

Prerequisite: Spanish 3

AP Spanish is designed to meet the needs of students who want to continue to utilize Spanish in a variety of settings. Students will engage with the Spanish language utilizing the 5 C's of foreign language education: Communication, Culture, Connections, Communities, and Comparisons. Students will communicate daily using increasingly complex vocabulary and grammatical structures in all tenses and time frames. Students will be exposed to culture from Spanish speaking areas of the world utilizing authentic material and literature. It is important that the student be able to attend class regularly and participate in order to be successful. There will be frequent out of class preparation and practice required in order for the student to be successful. In order to support student language development this course will be taught as much as possible in Spanish. Students may take the Advanced Placement (AP) Spanish test in May for the potential to earn college credit. **This course earns a weighted-grade and requires more in-depth study of the curriculum. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

LATIN I (Elementary Latin) via Baker University (LN101)

0.5 Credit/Year

WL609- LOCAL HS COURS DOES

LN101- COLLEGE COURSE CODE

Grade: 11-12

Prerequisite: None

Latin I introduces students to the basics of Latin grammar, syntax, and vocabulary. Students will be introduced to the six indicative active tenses of first, second, third, third -io, and fourth conjugations, as well as those same tenses of the irregular verbs sum and possum. Students will meet the present, imperfect, and future indicative passive tenses of first and second conjugations. The present infinitives, active and passive, will also be presented. Students will also learn about first, second, and third declension nouns; first, second, and third declension adjectives; special -ius adjectives; the reflexive adjective; interrogative adjectives; demonstratives; and numbers. Personal pronouns, reflexive pronouns, relative pronouns, and interrogative pronouns will also be taught. *This course requires enrollment at Baker University and costs \$113 per credit hour. Latin 2 is not currently offered, so this cannot be taken to count towards KS Scholars Curriculum Completer recognition.*

ACADEMY COURSES

As a part of the Academy experience, all Piper High School students will participate in an identified course sequence for their chosen Academy and Sector focus. In addition, each sector has recommended academy electives that are listed on the sector cards.

The following section lists all courses within the Academy and then breaks down the required course sequence for every sector within the Academy.

All students, regardless of Academy/Sector, are encouraged to also enroll in any of the academy courses as elective options. We encourage our students to take various electives from other academies to help them to continue to identify career interests and to help support becoming a well-rounded citizen.

DESIGN, PRODUCTION, AND AVIATION ACADEMY

ALL ACADEMY COURSES				
Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Drafting	0.5	9-12	Algebra 1 or concurrent enrollment	Elective Technology
Intro to Industrial Technology	0.5	9-12	Algebra 1 or concurrent enrollment	Elective Technology
Computing Systems	1	9-12		Elective Technology
Architectural Design	1	10-12	Drafting	Elective Technology
Drafting/Computer Aided Drafting (CAD)	1	10- 12	Drafting	Elective Technology
Advanced Studies: Projects in CAD	0.5	11- 12	Architectural Design	Elective Technology
Woodworking Principles	1	10-12	Introduction to Industrial Tech, Drafting recommended	Elective Technology
Furniture and Cabinetry Fabrication	1	12	Woodworking Principles	Elective Technology
Hand and Power Tools	0.5	9-12	Introduction to Industrial Tech	Elective Technology
Introduction to Engineering	1	9-12	None	Elective Technology
Principles of Engineering	1	10- 12	Introduction to Engineering	Elective Technology
Computer Integrated Manufacturing	1	11-12	Principles of Engineering	Elective Technology
Engineering Design and Development	1	11-12	Computer Integrated Manufacturing	Elective Technology
Robotics (T)	1	9-12	None	Elective Technology
Advanced Drafting/CAD	1	11-12	Drafting/CAD	Elective Technology
Aviation Fundamentals	0.5	9-12	None	Elective Technology

Aerospace Engineering	1	11-12	Principles of Engineering	Elective Technology
Unmanned Aircraft Systems	1	11-12	AC and DC Electronics	Elective Technology
College Intro to Informational Technology (CS106)	0.5	11-12	Only offered as Dual Credit ONLINE via Baker University	Elective Technology
Animation	1	10-12	Computing Systems and Intro to Drawing and Design	Elective Technology
Game Design and Authoring for the Web	1	11-12	Animation	Elective Technology
Particular Topics in Media Technology	1	12	Game Design and Authoring for the Web	Elective Technology
CAPSTONE: Design, Aviation, and Production	1	12	All Seniors will enroll in an Academy Capstone Experience course	Elective

ARCHITECTURE, DESIGN AND PRODUCTION SECTOR COURSE SEQUENCE				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Architecture and Design			
	Drafting (0.5)	Drafting/CAD (1)	Architectural Design (1) Optional KCKCC TEC	Projects in CAD 0.5) Capstone Experience (1.0) Optional KCKCC TEC
	Production and Construction			
	Intro to Industrial Technology (0.5)	Woodworking Principles (1)	Furniture & Cabinetry Fabrication (1) Optional KCKCC TEC	Capstone Experience (1.0) Optional KCKCC TEC

DRAFTING

DR1000

Grade: 9-12

Prerequisite: Algebra 1 or concurrently enrolled in Algebra 1

Students will learn the basics of mechanical drafting techniques and equipment. Through use of labs and small research projects students will learn the basic conventions of drafting skills including sketching, orthographic projection, isometric drawings, layout, measuring, scaling, and section drawings. This is a pencil and paper drafting class.

0.5 Credit/Semester

INTRODUCTION TO INDUSTRIAL TECH

DR2006

Grade: 9-12

Prerequisite: Algebra 1 or concurrently enrolled in Algebra 1

This is an introductory hands-on activity class where we will spend most of our time in the woods lab. Through the use of lecture and demonstration, students will gain a thorough understanding of shop and job site safety and will leave the class with an OSHA 10 certification. The majority of the grade is based on participation and safety demonstrated. This class is not recommended for students who have dust or wood allergies or are sensitive to loud noises for extended periods of time.

0.5 Credit/Semester

ARCHITECTURAL DESIGN

DR214A (SEM 1) AND DR214B (SEM 2)

Grade: 10-12

Prerequisite: Drafting

Students will explore the fundamentals of designing and drawing criteria and building codes. Students will utilize drawing tools and computer aided drafting (CAD) software along with decision-making skills and creativity to

1 Credit/Year

design and draft a residential house plan. Students will explore their designs in a Virtual Reality space and students will build scale models of their final project.

DRAFTING/CAD

1 Credit/Year

DR221A (SEM 1) AND DR221B (SEM 2)

Grade: 10-12

Prerequisite: Drafting

Students will learn basic and advanced techniques of computer aided drafting and design through use of labs and small research projects. Techniques utilized will include manual sketching, computer-aided drafting, and problem-solving activities. This class will utilize Industry leading Autodesk software including AutoCAD, Inventor, and Fusion.

ADVANCED STUDIES: PROJECTS IN CAD

0.5 Credit/Semester

DR2004

Grade: 11-12

Prerequisite: approval of instructor

Students will use skills and knowledge obtained in previous courses and learned software to complete a digital portfolio and independent project. Emphasis will be placed on design considerations, time management, and overall thoroughness. Admittance to this course is based upon the approval of the instructor only. *Repeatable for credit up to 1 credit.*

WOODWORKING PRINCIPLES

1 Credit/Year

DR207A (SEM 1) AND DR207B (SEM 2)

Grade: 10-12

Prerequisite: Intro to Indust Tech., Drafting Recommended

Course fee: \$50

This course will focus on small and medium scale project design and building. Each student will complete individually selected projects approved by the instructor. Students will utilize computer design software and manual drafting techniques in the pursuit of creating designs for their projects. Course may be repeated for up to 1 credit. Instructor permission is required before repeated admittance.

FURNITURE AND CABINETRY FABRICATION

1 Credit/Year

DR208A (SEM 1) AND DR208B (SEM 2)

Grade: 12

Prerequisite: Woodworking Principles, Drafting recommended

Course fee: \$50

During this course students will learn about advanced cabinetry and furniture construction through use of presentation and hands-on activities. Each student will complete individually selected projects approved by the instructor. Students will utilize computer design software and manual drafting techniques in the pursuit of creating designs for their projects.

CAPSTONE: DESIGN, PRODUCTION, AND AVIATION

1 credit/Year

Workplace Experience

CS100A (SEM 1) AND CS100B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected project, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

ENGINEERING SECTOR COURSE SEQUENCE				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options

	Introduction To Engineering (1)	Principles of Engineering (1)	Computer Integrated Manufacturing (1)	Engineering Design and Development (1) Capstone Experience (1)
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INTRODUCTION TO ENGINEERING DESIGN

1 Credit/Year

ST1000A (SEM 1) AND ST1000B (SEM 2)

Grade: 9-12

Prerequisite: Successful completion of or concurrent enrollment in Algebra 1

In this course students are introduced to the engineering profession and a common approach to the solution of engineering problems. Students will develop skills in representation and documentation of design solutions according to accepted technical standards and they will use current 3D design and modeling software to represent and communicate solutions. Building enthusiasm and a real understanding of the roles, impact, and practice of engineering is a primary goal of the course.

PRINCIPLES OF ENGINEERING

1 Credit/Year

ST1001 (SEM 1) AND ST1002 (SEM 2)

Grade: 10-12

Prerequisite: Introduction to Engineering

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

COMPUTER INTEGRATED MANUFACTURING

1 Credit/Year

TE2110 (SEM 1) AND TE2111 (SEM 2)

Grade: 11-12

Prerequisite: Principles of Engineering or Drafting/CAD

Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. Utilizing the activity-problem-based (APB) teaching, students will analyze, design, and build manufacturing systems. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a manufacturing system. The course applies and concurrently develops secondary-level knowledge and skills in mathematics, science, and technology.

ENGINEERING DESIGN AND DEVELOPMENT

1 Credit/Year

ST1003

Grade: 11-12

Prerequisite: Computer Integrated Manufacturing

Engineering Design and Development courses provide students with the opportunity to apply engineering research principles as they design and construct a solution to an engineering problem. Students typically develop and test solutions using computer simulations or models but eventually create a working prototype as part of the design solution.

CAPSTONE: DESIGN, PRODUCTION, AND AVIATION Workplace Experience

1 credit/Year

CS100A (SEM 1) AND CS100B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected project, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Experience for graduation.

MANUFACTURING SECTOR COURSE SEQUENCE				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Intro to Industrial Technology (0.5)	Production		
		Drafting/CAD (1)	Advanced Drafting/CAD (1) Optional KCKCC TEC	Capstone Experience (1.0) Optional KCKCC TEC
		Maintenance		
		Drafting/CAD (1)	KCKCC Electrical Technology Program 1st sem required (2) 2nd sem optional (2)	Capstone Experience (1.0) Optional KCKCC Electrical Technology Program Garmin Internship

INTRODUCTION TO INDUSTRIAL TECH

0.5 Credit/Semester

DR2006

Grade: 9-12

Prerequisite: Algebra 1 or concurrently enrolled in Algebra 1

This is an introductory hands-on activity class where we will spend most of our time in the woods lab. Through the use of lecture and demonstration, students will gain a thorough understanding of shop and job site safety and will leave the class with an OSHA 10 certification. The majority of the grade is based on participation and safety demonstrated. This class is not recommended for students who have dust or wood allergies or are sensitive to loud noises for extended periods of time.

HAND AND POWER TOOLS

0.5 Credit/Semester

ST105B

Grade: 9-12

Prerequisite: Intro to Industrial Tech

Provides technical knowledge used in aviation and manufacturing areas related to hand and power tools.

DRAFTING/CAD

1 Credit/Year

DR221A (SEM 1) AND DR221B (SEM 2)

Grade: 10-12

Prerequisite: Drafting

Students will learn basic and advanced techniques of computer aided drafting and design through use of labs and small research projects. Techniques utilized will include manual sketching, computer-aided drafting, and problem-solving activities. This class will utilize Industry leading Autodesk software including AutoCAD, Inventor, and Fusion.

ADVANCED DRAFTING/CAD

1 Credit/Year

DR222A (SEM 1) AND DR222B (SEM 2)

Grade: 11-12

Prerequisite: Drafting/CAD

An advanced, application level course designed to build on and apply the skills learned in Drafting/CAD

KCKCC ELECTRONICS ENGINEERING TECHNOLOGY PROGRAM

4 Credits/Year

ST106A and ST106B, ST107 A and ST107B, and ST108A and ST 108B, and ST109A and ST109B

Grade 11-12

Prerequisite: Intro to Industrial Technology and Recommended Aviation Fundamentals

This program is designed to prepare students to work in the field of electronics. The program provides a solid foundation in electronics theory, applications, and a view into emerging technologies. Core courses focus on fundamentals of electrical theory, electronic theory, and digital electronics. Emphasis is placed on firsthand, experiential learning and general lab skills. Students will be prepared to operate, install, troubleshoot, repair, maintain, and service electronic equipment and systems. Courses in this program emphasize proficiency in theory and the attainment of skills and competencies vital to workforce needs. Students that complete the full 4 credit program via KCKCC will be qualified to apply for a high school internship at Garmin. In addition, if students complete College Algebra for dual credit, they will be provided with a Certification A via KCKCC.

CAPSTONE: DESIGN, PRODUCTION, AND AVIATION

1 credit/Year

Workplace Experience

CS100A (SEM 1) AND CS100B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected project, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

AERONAUTICS AND AVIATION COURSE SEQUENCE				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Aeronautical Engineering			
	Intro to Engineering (1.0) Aviation Fundamentals (0.5)	Principles of Engineering (1)	Aerospace Engineering (1) Computer Integrated Manufacturing (1)	Engineering Design and Development (1) Capstone Experience (1.0) <i>Optional</i> Red Tail Academy
	Avionics Strand			
	Intro to Industrial Technology (0.5)	Aviation Fundamentals (0.5)	KCKCC Electronics Engineering Technology Program (4)	Capstone Experience (1.0) <i>Optional</i> Red Tail Academy Garmin Internship Unmanned Aircraft Systems (1)

INTRODUCTION TO INDUSTRIAL TECH

0.5 Credit/Semester

DR2006

Grade: 9-12

Prerequisite: Algebra 1 or concurrently enrolled in Algebra 1

This is an introductory hands-on activity class where we will spend most of our time in the woods lab. Through the use of lecture and demonstration, students will gain a thorough understanding of shop and job site safety and will leave the class with an OSHA 10 certification. The majority of the grade is based on participation and safety demonstrated. This class is not recommended for students who have dust or wood allergies or are sensitive to loud noises for extended periods of time.

AVIATION FUNDAMENTALS**0.5 credit/Year****ST105A****Grade: 9-12****Prerequisite: Introduction to Industrial Technology**

A technical level course providing students with an introduction to the fundamentals related to materials, processes, and history of Aviation.

HAND AND POWER TOOLS**0.5 Credit/Semester****ST105B****Grade: 9-12****Prerequisite: Intro to Industrial Tech**

Provides technical knowledge used in aviation and manufacturing areas related to hand and power tools.

PRINCIPLES OF ENGINEERING**1 Credit/Year****ST1001 (SEM 1) AND ST1002 (SEM 2)****Grade: 10-12****Prerequisite: Introduction to Engineering**

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

COMPUTER INTEGRATED MANUFACTURING**1 Credit/Year****TE2110 (SEM 1) AND TE2111 (SEM 2)****Grade: 11-12****Prerequisite: Principles of Engineering or Drafting/CAD**

Computer Integrated Manufacturing (CIM) is the study of manufacturing planning, integration, and implementation of automation. The course explores manufacturing history, individual processes, systems, and careers. In addition to technical concepts, the course incorporates finance, ethics, and engineering design. Utilizing the activity-problem-based (APB) teaching, students will analyze, design, and build manufacturing systems. While implementing these designs, students will continually hone their interpersonal skills, creative abilities, and understanding of the design process. Students apply knowledge gained throughout the course in a final open-ended problem to build a manufacturing system. The course applies and concurrently develops secondary-level knowledge and skills in mathematics, science, and technology.

AEROSPACE ENGINEERING**1 Credit/Year****ST110A (Sem 1) and ST110B (Sem 2)****Grade: 11-12****Prerequisite: Principles of Engineering**

Aerospace Engineering courses introduce students to the world of aeronautics, flight, and engineering. Topics covered in the course may include the history of flight, aerodynamics and aerodynamics testing, flight systems, astronautics, space life systems, aerospace materials, and systems engineering.

ENGINEERING DESIGN AND DEVELOPMENT**1 Credit/Year****ST1003****Grade: 11-12****Prerequisite: Computer Integrated Manufacturing**

Engineering Design and Development courses provide students with the opportunity to apply engineering research principles as they design and construct a solution to an engineering problem. Students typically develop and test solutions using computer simulations or models but eventually create a working prototype as part of the design solution.

KCKCC ELECTRONICS ENGINEERING TECHNOLOGY PROGRAM**4 Credits/Year****ST106A and ST106B, ST107 A and ST107B, and ST108A and ST 108B, and ST109A and ST109B****Grade 11-12****Prerequisite: Intro to Industrial Technology and Recommended Aviation Fundamentals**

This program is designed to prepare students to work in the field of electronics. The program provides a solid foundation in electronics theory, applications, and a view into emerging technologies. Core courses focus on fundamentals of electrical theory, electronic theory, and digital electronics. Emphasis is placed on firsthand, experiential learning and general lab skills. Students will be prepared to operate, install, troubleshoot, repair,

maintain, and service electronic equipment and systems. Courses in this program emphasize proficiency in theory and the attainment of skills and competencies vital to workforce needs. Students that complete the full 4 credit program via KCKCC will be qualified to apply for a high school internship at Garmin. In addition, if students complete College Algebra for dual credit, they will be provided with a Certification A via KCKCC.

UNMANNED AIRCRAFT SYSTEMS

1 Credit/Year

ST111A (SEM 1) and ST111B (SEM 2)

Grade: 12

Prerequisite: AC/DC Electronics

A course that will provide students with the academic knowledge about commercial remote pilot operations, while also giving hands-on experience planning and executing UAS missions.

CAPSTONE: DESIGN, PRODUCTION, AND AVIATION

1 credit/Year

Workplace Experience

CS100A (SEM 1) AND CS100B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected project, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

ANIMATION AND GAMING COURSE SEQUENCE				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Computing Systems (1) Intro to Drawing and Design (1)	Animation (1) Art 1 (0.5)	Game Design and Authoring for the Web (1) Art 2 (0.5)) Drawing (0.5)	Capstone Exoerience (1) Particular Topics in Media Technology (1)

COMPUTER SYSTEMS

1.0 CREDIT/SEMESTER

COURSE CODE: CI1002A AND SEM 2: CI1002B

Grade: 9-12

Prerequisite: None

Computing Systems courses offer a broad exploration of the use of computers in a variety of fields. These courses have a considerable range of content, but typically include the introduction of robotics and control systems, computer-assisted design, computer-aided manufacturing systems, and other computer technologies as they relate to industry applications.

INTRODUCTION TO DRAWING AND DESIGN

0.5 Credit/Semester

TE3008

Grades: 9-12

Prerequisite: None

Introduction to Drawing emphasizes the development of fundamental drawing skills. Focus will be on the application of art theory, processes and techniques that increase the power of observation. Instruction includes the elements and principles of design as applied in composition through hard copy and/or electronic software.

Art 1

0.5 Credit/Semester

FA5016

Grade: 9-12

Prerequisite: None

Art 1 is a foundational course that focuses on the use of the design process in the development of ideas for original art works. Students will be able to identify different elements and principles of design as they are utilized in both their own work and the examples of design and fine art that will be explored during the semester.

ART 2**0.5 Credit/Semester****FA5017****Grade: 9-12****Prerequisite: Art 1 or Introduction to Drawing and Design**

During this course, students will further develop their design and technical skills that were learned in Introduction to Drawing and Design. Students will be able to identify the elements and principles of art and design as they are utilized in their own work, as well as examples of fine art that will be explored during the semester.

COLLEGE INTRO TO INFORMATIONAL TECHNOLOGY VIA BAKER UNIV (CS106)**0.5 Credit/Semester****CI101- Local HS Course Coding****CS106- Baker University Course Coding****Grade: 9-12****Prerequisite: Computing Systems**

This course provides an introduction to information technology and computing systems. It covers both the history and theory of information systems as well as the practical application of technologies. The student will be introduced to computer software, hardware, and networking technologies, as well as information security, privacy, and social issues inherent in information technologies. The practical applications of productivity software, data management, HTML, and CSS are covered, as well as an introduction to computer coding through Scratch and Java. Future trends in information technology are addressed through topics including data mining, visualization, natural language processing, artificial intelligence, and Blockchain. *This course requires enrollment at Baker University and costs \$113 per credit hour.*

DRAWING**0.5 Credit/Semester****FA5156****Grade: 9-12****Prerequisite: Art 1 or Introduction to Drawing and Design**

This drawing course will focus on the development of observational and technical skills used to develop a 2 dimensional image from a 3 dimensional form. Students will explore the use of proportion, perspective, value, and color to accurately render an image on paper. Chalk and Paste properties will be explored as different avenues to achieving a completed image.

ANIMATION**1 credit/Year****CI103A (SEM 1) AND CI103B (SEM 2)****Grade: 10-12****Prerequisite: Computing Systems and Intro to Drawing and Design**

This course emphasizes the development of digitally generated and/or computer-enhanced media, including 2D and 3D spatial elements, graphic representation, management of movement, environmental representation [including texture, color, value, form, line, and space], recording media, and distribution tools and methodologies. Instruction provides a venue for such sophisticated, programming sequences and methodologies as are integrated into actions of the characters creating new behaviors.

GAME DESIGN AND AUTHORING**1 credit/Year****CI104A (SEM 1) AND CI104B (SEM 2)****Grade: 11, 12****Prerequisite: Animation**

Game technologies represent the culmination of logic, sequence, tool utilization, and extension of skill. Programming process for this course will utilize all previously learned factors of programming logic, artistry, and interactivity.

PARTICULAR TOPICS IN MEDIA TECHNOLOGY**1 credit/Year****CI105A (SEM 1) AND CI105B (SEM 2)****Grade: 12****Prerequisite:**

These courses examine particular topics in internet design and applications other than those already described.

CAPSTONE: DESIGN, PRODUCTION, AND REPAIR**1 credit/Year**

Workplace Experience

CS100A (SEM 1) AND CS100B (SEM 2)**Grade: 12****Prerequisite:** All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected project, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

BUSINESS, ENTREPRENEURSHIP, and INNOVATION ACADEMY

ALL ACADEMY COURSES				
Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Business Essentials	0.5	9-12		Elective
Business Communications	0.5	09-12	Business Essentials	Elective Oral Comm
Consumer Ed and Personal Finance	0.5	11-12	*GRADUATION REQUIREMENT FOR ALL STUDENTS	Personal Finance
College Introduction of Business and Entrepreneurship (BS141)	0.5	11-12	Only offered as Dual Credit ONLINE via Baker University PHS Entrepreneurship	Elective
Accounting 1	1	10-12	Business Essentials	Elective
Advanced Accounting	1	11-12	Accounting 1	Elective
Entrepreneurship	0.5	10- 12	Business Essentials	Elective
Business Management	0.5	10-12	Business Essentials	Elective
Economics	0.5	11-12		Elective
College Microeconomics (EC242)	0.5	11-12	PHS Economics, Only offered as Dual Credit ONLINE via Baker University	Elective
Applied Business Development (Pirate's Bay Year 1)	1	11-12	Business Management	Elective
Advanced Business Management and Entrepreneurship Workplace Experience (Pirate's Bay Year 2)	1.0	12	Applied Business Development	Elective
Event Planning and Management	(0.5)		Career and Life Planning or Business Essentials	Elective
Principles of Marketing	1	10-12	Business Essentials	Elective
Sports and Entertainment Marketing	0.5	11-12	Business Essential or Business Communications, Principles of Marketing recommended	Elective
Marketing Applications	1	1-12	Principles of Marketing	Elective
CAPSTONE: Business, Entrepreneurship, and Innovation	1	12	All Seniors will enroll in an Academy Capstone Experience course	Elective

BUSINESS AND FINANCIAL PLANNING				
Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Business Essentials (0.5) <i>Business Communications (0.5)</i> 9th or 10th	Accounting (1) <i>Business Communications (0.5)</i> 9th or 10th	Advanced Accounting Consumer Ed and Personal Finance (0.5)	Capstone Experience (1)

BUSINESS ESSENTIALS**0.5 Credit/Semester****BU1210****Grade: 9-12****Prerequisite: None**

During this course, students will gain an overview of occupations in business, marketing and finance. The course includes the study of types of business ownership, principles of business management and analysis of business practices to determine ethical and social responsibility.

BUSINESS COMMUNICATIONS**0.5 Credit/Semester****BU1209****Grade: 9-12****Prerequisite: Business Essentials**

Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communication non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications. *This course can count towards the required Oral Communications credit.*

CONSUMER EDUCATION AND PERSONAL FINANCE**0.5 Credit/Semester****FC2251****Grade: 11-12****Prerequisite: None**

This course provides a real-life curriculum to understand best practices regarding financial decisions and goal setting for the future. It is designed to integrate multiple life roles and responsibilities in family, work and community settings. The students will analyze strategies to manage multiple roles and responsibilities individually, in family and in career, as well as demonstrate transferable and employability skills in school, community and workplace settings, and develop strategies for balancing family responsibilities which impact work environments. *This course is required to be taken in 11th or 12th grade for all students graduating in 2024 and beyond.*

ECONOMICS**0.5 Credit/Semester****SS4011****Grade: 11-12****Prerequisite: None**

During this course, students will learn about economic systems, supply and demand, price determination, markets, GDP, money, investment, federal budgets, and the New York Stock Exchange. Students will develop skills in investing, money management, financial planning and obtaining loans for home and cars.

COLLEGE MICROECONOMICS VIA BAKER UNIVERSITY**0.5 Credit/Semester****SS4012- Local HS Course Coding****EC242- College Course Coding for Baker University****Grade: 11-12****Prerequisite: Economics**

Microeconomics is the study of how businesses operate and the influence that economic decision making has on markets, industries, and competition. In this course, students will explore what it means to think on the margin and understand the key principles of economics, including supply and demand; the impact of cost, utility, and externalities on businesses and markets; the impact of government policies and taxing; different forms of markets; the roles of profit and elasticity and competition; wages and how production decisions are made; and the factors of production. *This course requires enrollment at Baker University and costs \$113 per credit hour*

ACCOUNTING 1**1 Credit/Year****BU200A (SEM 1) AND BU200B (SEM 2)****Grade: 10-12****Prerequisite: None**

Accounting is the language of business and is considered a must for college business majors. Accounting is a valuable course for all students pursuing a career in business, marketing, or management. Financial transactions will be analyzed and recorded and financial statements will be produced.

ADVANCED ACCOUNTING**1 Credit/Year**

BU201A (SEM 1) AND BU201B (SEM 2)**Grade: 11-12****Prerequisite: Accounting 1**

Advanced Accounting builds on concepts learned in Accounting I. Topics about management accounting, cost accounting and financial analysis will be covered. Students will understand the importance of accurate reporting of accounting information. Due to this being an advanced course, the instructor will act as a facilitator and students will be responsible for learning much of the material independently via the use of training videos, collaboration and self-evaluation.

CAPSTONE: BUSINESS, ENTREPRENEURSHIP, AND INNOVATION**1 credit/Year****Workplace Experience****CS101A (SEM 1) AND CS101B (SEM 2)****Grade: 12****Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined**

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

ENTREPRENEURSHIP Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Business Essentials (0.5) Business Management (0.5) <i>Business Communications (0.5)</i> <i>9th or 10th</i>	Entrepreneurship (0.5) Principles of Marketing (1) <i>Business Communications (0.5)</i> <i>9th or 10th</i>	Applied Business Development (1) <i>Pirate's Bay</i> Consumer Education and Personal Finance (0.5)	Advanced Business Development and Entrepreneurship (1) <i>Pirates Bay Yr 2</i> Capstone Experience (1)

BUSINESS ESSENTIALS**0.5 Credit/Semester****BU1210****Grade: 9-12****Prerequisite: None**

During this course, students will gain an overview of occupations in business, marketing and finance. The course includes the study of types of business ownership, principles of business management and analysis of business practices to determine ethical and social responsibility.

ENTREPRENEURSHIP**0.5 Credit/Semester****BU1211****Grade: 9-12****Prerequisite: Business Essentials**

During this course, students will learn and explore the personal characteristics and resources needed to profitably start and run a small business. Students will learn the basic concepts of entrepreneurship and the importance of small business within our free enterprise system. This course will provide students with knowledge of our free enterprise system that will prove beneficial for those entering the job market and for those pursuing higher education.

BUSINESS COMMUNICATIONS**0.5 Credit/Semester****BU1209****Grade: 10-12****Prerequisite: Business Essentials**

Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communication non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications. *This course can count towards the required Oral Communications credit.*

INTRODUCTION TO BUSINESS AND ENTREPRENEURSHIP VIA BAKER UNIV

0.5 Credit/Semester

BU2000- Local HS Course Codes

BS141 - College Course Codes

Grade: 11-12

Prerequisite: Entrepreneurship

Introduction to Business and Entrepreneurship provides an introductory survey to entrepreneurship and business fundamentals. Through the framework of the business model canvas, the course also explores the fundamental considerations of planning, launching, owning, and managing a successful small business enterprise. *This course requires enrollment at Baker University and costs \$113 per credit hour*

ECONOMICS

0.5 Credit/Semester

SS4011

Grade: 11-12

Prerequisite: None

During this course, students will learn about economic systems, supply and demand, price determination, markets, GDP, money, investment, federal budgets, and the New York Stock Exchange. Students will develop skills in investing, money management, financial planning and obtaining loans for home and cars.

COLLEGE MICROECONOMICS VIA BAKER UNIVERSITY

0.5 Credit/Semester

SS4012- Local HS Course Coding

EC242- College Course Coding for Baker University

Grade: 11-12

Prerequisite: Economics

Microeconomics is the study of how businesses operate and the influence that economic decision making has on markets, industries, and competition. In this course, students will explore what it means to think on the margin and understand the key principles of economics, including supply and demand; the impact of cost, utility, and externalities on businesses and markets; the impact of government policies and taxing; different forms of markets; the roles of profit and elasticity and competition; wages and how production decisions are made; and the factors of production. *This course requires enrollment at Baker University and costs \$113 per credit hour*

BUSINESS MANAGEMENT

0.5 Credit/Semester

TE1211

Grade: 10-12

Prerequisite: Business Essentials

Students will learn and put into practice the five functions of management; planning, organizing, leading, controlling and staffing. Students will further acquire skills related to the social and ethical environment of business, managing production and operations, and managing human resources.

PRINCIPLES OF MARKETING

1 Credit/Year

COURSE CODE: SEM 1: MK100A AND SEM 2:MK100B

Grade: 10-12

Prerequisite: Business Essentials

Principles of Marketing will focus on understanding and effectively using strategies of marketing. Concepts covered will include foundational elements of marketing in various mediums including digital mediums, branding, targeting/segmentation, consumer behavior, ethics and personal branding.

CONSUMER EDUCATION AND PERSONAL FINANCE

0.5 Credit/Semester

FC2251

Grade: 11-12

Prerequisite: None

This course provides a real-life curriculum to understand best practices regarding financial decisions and goal setting for the future. It is designed to integrate multiple life roles and responsibilities in family, work and community settings. The students will analyze strategies to manage multiple roles and responsibilities individually,

in family and in career, as well as demonstrate transferable and employability skills in school, community and workplace settings, and develop strategies for balancing family responsibilities which impact work environments.

This course is required to be taken in 11th or 12th grade for all students graduating in 2024 and beyond.

APPLIED BUSINESS DEVELOPMENT

1 Credit/Year

BU121A (SEM 1) AND BU121B (SEM 2)

Grade: 11-12

Prerequisite: Business Management

As an application level course, students will take on the responsibility of running a small business in a real-world manner. The day to day operations of the school store, Pirates Bay, will be the responsibility of the students. Students will deal with business management, procurement, government regulations, business accounting, marketing, social responsibility and business decision-making.

CAPSTONE: BUSINESS, ENTREPRENEURSHIP, AND INNOVATION

1 credit/Year

Workplace Experience

CS101A (SEM 1) AND CS101B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

HUMAN RESOURCES AND SPORTS MANAGEMENT				
Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Human Resources			
	Business Essentials (0.5)	Event and Planning Management (0.5)	Applied Business Development (1)	Applied Business Development (1)
	Business Management (0.5)		Consumer Education and Personal Finance (0.5)	Capstone Experience (1)
	<i>Business Communications (0.5)</i> 9th or 10th	<i>Business Communications (0.5)</i> 9th or 10th	Sports/Entertainment Marketing (0.5)	
	Sports Management			
	Business Essentials (0.5)	Intro to Recreational Sports (0.5)	Sports and Entertainment Marketing (0.5)	Marketing Applications (1)
	Business Management (0.5)	Principles of Marketing (1)	Consumer Education and Personal Finance (0.5)	Capstone Experience (1)
	<i>Business Communications (0.5)</i> 9th or 10th	<i>Business Communications (0.5)</i> 9th or 10th	Sports/Entertainment Marketing (0.5)	

BUSINESS ESSENTIALS**0.5 Credit/Semester****BU1210****Grade: 9-12****Prerequisite: None**

During this course, students will gain an overview of occupations in business, marketing and finance. The course includes the study of types of business ownership, principles of business management and analysis of business practices to determine ethical and social responsibility.

ENTREPRENEURSHIP**0.5 Credit/Semester****BU1211****Grade: 9-12****Prerequisite: Business Essentials**

During this course, students will learn and explore the personal characteristics and resources needed to profitably start and run a small business. Students will learn the basic concepts of entrepreneurship and the importance of small business within our free enterprise system. This course will provide students with knowledge of our free enterprise system that will prove beneficial for those entering the job market and for those pursuing higher education.

BUSINESS COMMUNICATIONS**0.5 Credit/Semester****BU1209****Grade: 9-12****Prerequisite: Business Essentials**

Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communication non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications. *This course can count towards the required Oral Communications credit.*

INTRODUCTION TO BUSINESS AND ENTREPRENEURSHIP VIA BAKER UNIV**0.5 Credit/Semester****BU2000- Local HS Course Codes****BS141 - College Course Codes****Grade: 11-12****Prerequisite: Entrepreneurship**

Introduction to Business and Entrepreneurship provides an introductory survey to entrepreneurship and business fundamentals. Through the framework of the business model canvas, the course also explores the fundamental considerations of planning, launching, owning, and managing a successful small business enterprise. *This course requires enrollment at Baker University and costs \$113 per credit hour*

ECONOMICS**0.5 Credit/Semester****SS4011****Grade: 11-12****Prerequisite: None**

During this course, students will learn about economic systems, supply and demand, price determination, markets, GDP, money, investment, federal budgets, and the New York Stock Exchange. Students will develop skills in investing, money management, financial planning and obtaining loans for home and cars.

COLLEGE MICROECONOMICS VIA BAKER UNIVERSITY**0.5 Credit/Semester****SS4012- Local HS Course Coding****EC242- College Course Coding for Baker University****Grade: 11-12****Prerequisite: Economics**

Microeconomics is the study of how businesses operate and the influence that economic decision making has on markets, industries, and competition. In this course, students will explore what it means to think on the margin and understand the key principles of economics, including supply and demand; the impact of cost, utility, and externalities on businesses and markets; the impact of government policies and taxing; different forms of markets; the roles of profit and elasticity and competition; wages and how production decisions are made; and the factors of production. *This course requires enrollment at Baker University and costs \$113 per credit hour*

**BUSINESS MANAGEMENT
TE1211**

0.5 Credit/Semester

Grade: 10-12

Prerequisite: Business Essentials

Students will learn and put into practice the five functions of management; planning, organizing, leading, controlling and staffing. Students will further acquire skills related to the social and ethical environment of business, managing production and operations, and managing human resources.

PRINCIPLES OF MARKETING

1 Credit/Year

COURSE CODE: SEM 1: MK100A AND SEM 2: MK100B

Grade: 10-12

Prerequisite: Business Essentials

Principles of Marketing will focus on understanding and effectively using strategies of marketing. Concepts covered will include foundational elements of marketing in various mediums including digital mediums, branding, targeting/segmentation, consumer behavior, ethics and personal branding.

SPORTS AND ENTERTAINMENT MARKETING

0.5 Credit/Semester

MK1010

Grade: 11-12

Prerequisite: Business Essentials or Business Communications, Principles of Marketing Recommended

Sports and Entertainment Marketing courses introduce students to and help them refine marketing and management functions and tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, and the sales or rental of supplies and equipment. *This course is repeatable for credit.*

EVENT AND PLANNING MANAGEMENT

0.5 CREDIT/SEMESTER

Course Code: TT100

Grade: 10-12

Prerequisite: Career and Life Planning OR Business Essentials

In this course students will learn about and practice the process of working with clients, planning an event, adapting to client feedback, and executing the shared vision of the event. Students will work with peers, clients, community members and organizations, and business as a part of their coursework. Students will learn about project management, budgeting, and effective communication of goals and visions with others.

CONSUMER EDUCATION AND PERSONAL FINANCE

0.5 Credit/Semester

FC2251

Grade: 11-12

Prerequisite: None

This course provides a real-life curriculum to understand best practices regarding financial decisions and goal setting for the future. It is designed to integrate multiple life roles and responsibilities in family, work and community settings. The students will analyze strategies to manage multiple roles and responsibilities individually, in family and in career, as well as demonstrate transferable and employability skills in school, community and workplace settings, and develop strategies for balancing family responsibilities which impact work environments. *This course is required to be taken in 11th or 12th grade for all students graduating in 2024 and beyond.*

APPLIED BUSINESS DEVELOPMENT (PIRATE'S BAY YR 1)

1 Credit/Year

BU121A (SEM 1) AND BU121B (SEM 2)

Grade: 11-12

Prerequisite: Business Management

As an application level course, students will take on the responsibility of running a small business in a real-world manner. The day to day operations of the school store, Pirates Bay, will be the responsibility of the students. Students will deal with business management, procurement, government regulations, business accounting, marketing, social responsibility and business decision-making.

**ADVANCED BUSINESS MANAGEMENT &
ENTREPRENEURSHIP WORKPLACE (PIRATE'S BAY YR 2)**

1 credit/Year

BU122A (SEM 1) AND BU122B (SEM 2)

Grade: 12

Prerequisite: Applied Business Development

Advanced Business Management & Entrepreneurship Workplace Experience is a course which expands on the knowledge and skills a student has learned throughout the entire pathway of courses and provides a second level of application in the industry.

CAPSTONE: BUSINESS, ENTREPRENEURSHIP, AND INNOVATION
Workplace Experience

1 credit/Year

CS101A (SEM 1) AND CS101B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

SALES AND MARKETING Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Business Essentials (0.5) <i>Business Communications (0.5) 9th or 10th</i>	Principles of Marketing (1) Entrepreneurship (0.5) <i>Business Communications (0.5) 9th or 10th</i>	Marketing Applications (1) Consumer Education and Personal Finance (0.5)	Capstone Experience (1)

BUSINESS ESSENTIALS

0.5 Credit/Semester

BU1210

Grade: 9-12

Prerequisite: None

During this course, students will gain an overview of occupations in business, marketing and finance. The course includes the study of types of business ownership, principles of business management and analysis of business practices to determine ethical and social responsibility.

ENTREPRENEURSHIP

0.5 Credit/Semester

BU1211

Grade: 9-12

Prerequisite: Business Essentials

During this course, students will learn and explore the personal characteristics and resources needed to profitably start and run a small business. Students will learn the basic concepts of entrepreneurship and the importance of small business within our free enterprise system. This course will provide students with knowledge of our free enterprise system that will prove beneficial for those entering the job market and for those pursuing higher education.

BUSINESS COMMUNICATIONS

0.5 Credit/Semester

BU1209

Grade: 9-12

Prerequisite: Business Essentials

Business Communications courses help students to develop an understanding and appreciation for effective communication in business situations and environments. Emphasis is placed on all phases of communication: speaking, listening, thinking, responding, reading, writing, communication non-verbally, and utilizing technology for communication. Business communication functions, processes, and applications in the context of business may be practiced through problem-based projects and real-world applications. *This course can count towards the*

required Oral Communications credit.

INTRODUCTION TO BUSINESS AND ENTREPRENEURSHIP VIA BAKER UNIV

0.5 Credit/Semester

BU2000- Local HS Course Codes

BS141 - College Course Codes

Grade: 11-12

Prerequisite: Entrepreneurship

to Business and Entrepreneurship provides an introductory survey to entrepreneurship and business fundamentals. Through the framework of the business model canvas, the course also explores the fundamental considerations of planning, launching, owning, and managing a successful small business enterprise. *This course requires enrollment at Baker University and costs \$113 per credit hour*

ECONOMICS

0.5 Credit/Semester

SS4011

Grade: 11-12

Prerequisite: None

During this course, students will learn about economic systems, supply and demand, price determination, markets, GDP, money, investment, federal budgets, and the New York Stock Exchange. Students will develop skills in investing, money management, financial planning and obtaining loans for home and cars.

COLLEGE MICROECONOMICS VIA BAKER UNIVERSITY

0.5 Credit/Semester

SS4012- Local HS Course Coding

EC242- College Course Coding for Baker University

Grade: 11-12

Prerequisite: Economics

Microeconomics is the study of how businesses operate and the influence that economic decision making has on markets, industries, and competition. In this course, students will explore what it means to think on the margin and understand the key principles of economics, including supply and demand; the impact of cost, utility, and externalities on businesses and markets; the impact of government policies and taxing; different forms of markets; the roles of profit and elasticity and competition; wages and how production decisions are made; and the factors of production. *This course requires enrollment at Baker University and costs \$113 per credit hour*

PRINCIPLES OF MARKETING

1 Credit/Year

COURSE CODE: SEM 1:MK100A AND SEM 2: MK100B

Grade: 10-12

Prerequisite: Business Essentials

Principles of Marketing will focus on understanding and effectively using strategies of marketing. Concepts covered will include foundational elements of marketing in various mediums including digital mediums, branding, targeting/segmentation, consumer behavior, ethics and personal branding.

CONSUMER EDUCATION AND PERSONAL FINANCE

0.5 Credit/Semester

FC2251

Grade: 11-12

Prerequisite: None

This course provides a real-life curriculum to understand best practices regarding financial decisions and goal setting for the future. It is designed to integrate multiple life roles and responsibilities in family, work and community settings. The students will analyze strategies to manage multiple roles and responsibilities individually, in family and in career, as well as demonstrate transferable and employability skills in school, community and workplace settings, and develop strategies for balancing family responsibilities which impact work environments. *This course is required to be taken in 11th or 12th grade for all students graduating in 2024 and beyond.*

MARKETING APPLICATIONS

1 credit/Year

MK101A (SEM 1) AND MK101B (SEM 2)

Grade: 11-12

Prerequisite: Principles of Marketing

Marketing Applications furthers student understanding and skills in the various marketing functions. Students coordinate channel management with other marketing activities, discuss the nature of marketing plans, generate product ideas, coordinate activities in the promotional mix, and demonstrate specialized sales processes and techniques. Economic and financial concepts are also stressed throughout the course. Current technology will be

used to acquire information and to complete the projects. Throughout the course, students are presented problem solving situations for which they must apply academic and critical-thinking skills. Formal reflection is an on-going component of the course along with four projects.

CAPSTONE: BUSINESS, ENTREPRENEURSHIP, AND INNOVATION

1 credit/Year

Workplace Experience

CS101A (SEM 1) AND CS101B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

ARTS AND MEDIA ACADEMY

ALL ACADEMY COURSES				
Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Intro to Drawing and Design	0.5	9-12	None	Elective Fine Arts Technology
Business Essentials	0.5	9-12	None	Elective
21 st Century Journalism	0.5	9-12	Business Essentials or concurrently enrolled	Elective
Graphic Design Fundamentals	0.5	9- 12	Intro to Drawing and Design	Elective Fine Arts Technology
Photo Imaging	0.5	9- 12		Elective Technology
Graphic Design	1	9-12	Graphic Design Fundamentals	Elective Fine Arts Technology
Graphic Design Product Management (Piper Graphics)	1	11-12	Graphic Design	Elective Fine Arts Technology
Digital Media Design and Production: Yearbook 1	1	11-12	21st Century Journalism and Graphic Design Fundamentals or Photo Imaging	Elective Technology
Digital Media Design and Production: Yearbook 2	1	11-12	Digital Media Design and Production Yearbook 1	Elective Technology
Digital Media Project Management: Yearbook	1	12	Digital Media Design and Production : Yearbook	Elective Technology
Audio/Video Fundamentals	0.5	10-12	Business Essentials and 21st Century Journalism	Elective Technology
Video Production	1	11-12	Audio/Video Fundamentals	Elective Technology
Photography	0.5	10-12	Photo Imaging	Elective
Advanced Photography	1	11-12	Photography	Elective
Debate 1: Basic Argumentation	0.5	9-12	None	Elective Fine Arts Oral Comm
Debate 2: Advanced Argumentation	0.5	10, 11, 12	Debate 1	Elective Fine Arts Oral Comm
Debate 3: Rhetoric & Logic	0.5	11,12	Debate 2	Elective Fine Arts Oral Comm
Honors Debate 3: Rhetoric & Logic	0.5	11, 12	Debate 2, Instructor Permission	Elective Fine Arts Oral Comm
Debate 4: Philosophy & Reason	0.5	12	Debate 3	Elective

				Fine Arts Oral Comm
Honors Debate 4: Philosophy & Reason	0.5	12	Debate 3 or Honors Debate 3, instructor permission	Elective Fine Arts Oral Comm
Theatre 1	0.5	9, 10, 11, 12		Elective Fine Arts
Repertory Theater	1	10-12	Theatre 1 and/or Choir Concert, Audition course	Elective Fine Arts
Stagecraft	0.5	9, 10, 11, 12		Elective Fine Arts
Technical Production	0.5	10, 11, 12		Elective Fine Arts
Forensics 1: Basic Competitive Acting, Speech, & Debate	0.5	9, 10, 11, 12		Elective Fine Arts Oral Comm
Forensics 2: Advanced Competitive Acting, Speech & Debate	0.5	10, 11, 12	Forensics 1	Elective Fine Arts Oral Comm
Forensics 3: Rhetoric & Interpretation	0.5	11, 12	Forensics 2	Elective Fine Arts Oral Comm
Honors Forensics 3	0.5	11, 12	B or above in Forensics 2, instructor permission	Elective Fine Arts Oral Comm
Forensics 4: Communication & Performance	0.5	12	Forensics 3, Honors Forensics 3	Elective Fine Arts Oral Comm
Honors Forensics 4	0.5	12	Forensics 3, Honors Forensics 3, instructor permissions	Elective Fine Arts Oral Comm
Introduction to Drawing and Design	0.5	9-12	None	Elective Fine Arts Technology
Art 1	0.5	9-12	None	Elective Fine Arts
Art 2	0.5	9-12	Art 1	Elective Fine Arts
Drawing	0.5	9-12	Art 1	Elective Fine Arts
Painting	0.5	10-12	Art 2	Elective Fine Arts
Ceramics & Sculpture 1	0.5	9-12	Art 2	Elective Fine Arts
Ceramics & Sculpture 2	0.5	10-12	Ceramics & Sculpture 1	Elective Fine Arts
Studio Studies	0.5	11-12	Instructor permission	Elective Fine Arts
Senior Portfolio	1	12	Instructor permission	Elective Fine Arts
Marching/Concert Band	1	9-12	Instrumental Experience, repeatable for credit	Elective Fine Arts
Jazz Band	1	9-12q	Instrumental Experience and instructor permission, repeatable for credit	Elective Fine Arts
Concert Choir	1	9-12	Repeatable for credit	Elective Fine Arts
Business in Music	0.5	10-12	Business Essentials or Choir or Band	Elective Fine Arts
Bella Voce	1	10-12	Audition, repeatable for credit	Elective Fine Arts
Music-n-Motion	1	10-12	Audition, repeatable for credit	Elective Fine Arts
Road to Rock	0.5	9-12	None	Elective Fine Arts
College Understanding Music (Music Appreciation) (MU120)	0.5	11-12	Only offered as Dual Credit ONLINE via Baker University	Elective

Music Theory 1	0.5	11-12	Band and/or Choir	Elective Fine Arts
Music Theory 2: AP Music Theory	0.5	11, 12	Music Theory 1	Elective Fine Arts
CAPSTONE: Arts and Media	0.5 or 1	12	All Seniors will enroll in an Academy Capstone Experience course, length of course dependent on grad year	Elective

DIGITAL MEDIA Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Yearbook			
	Business Essentials (0.5) 21st Century Journalism (0.5)	Graphic Design Fundamentals (0.5) and/or Photo Imaging (0.5)	Digital Media Design and Production (1)	Capstone Experience Digital Media Project Management (1)
	Broadcasting			
	Business Essentials (0.5) 21st Century Journalism (0.5)	Audio/Video Production Fundamentals (0.5)	Video Production (1)	Capstone Experience Digital Media Design and Production/Video Production (1)
	Photography			
	Photo Imaging (0.5)	Photography (0.5)	Advanced Photography (1)	Project Management (1)

BUSINESS ESSENTIALS

0.5 Credit/Semester

BU1210

Grade: 9-12

Prerequisite: None

During this course, students will gain an overview of occupations in business, marketing and finance. The course includes the study of types of business ownership, principles of business management and analysis of business practices to determine ethical and social responsibility.

21st CENTURY JOURNALISM

0.5 Credit/Semester

TE3001

Grade: 9-12

Prerequisite: Business Essentials and/or concurrent enrollment in Business Essentials

During this course, students will learn and demonstrate skills in interviewing, reporting, mass media writing, and digital media storytelling. Students also will explore and analyze the role of journalism and influence of media in society.

GRAPHIC DESIGN FUNDAMENTALS

0.5 Credit/Semester

TE108C

Grades: 9-12

Prerequisite: Introduction to Drawing and Design

This class will provide a basic understanding of the graphic design process. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product. Students will learn how to use Adobe InDesign to create print and digital projects.

PHOTO IMAGING**0.5 Credit/Semester****DM1001****Grade: 9-12****Prerequisite: None****Course Fee: \$20**

During this course, students will learn and demonstrate basic photo composition, legal and ethical use of images, the operation of a professional digital camera and photo editing software.

AUDIO/VIDEO PRODUCTION FUNDAMENTALS**0.5 Credit/Semester****DM1002****Grade: 10- 12****Prerequisite: Business Essentials and 21st Century Journalism**

Audio Video Production Fundamentals provides a basic understanding of producing video for a variety of uses. Topics include analyzing the pre-production, production and post-production process, as well as explore the equipment and techniques used to develop a quality audio video product.

VIDEO PRODUCTION**1 Credit/Semester****DM103A AND DM103B****Grade: 10-12****Prerequisite: A/V Fundamentals**

Video Production applies the technical skills learned in Audio Video Production Fundamentals by allowing students to orchestrate projects from setting the objectives to the post-production evaluation. The subject of the presentation may be determined in a number of ways, but must address an authentic need. The complexity of the presentation is not the focus of this course but the experience of the entire process is, including planning the presentation, setting up the studio (if applies), acting as the videographer, and editor to make it fluid and seamless

STUDENT NEWS: DIGITAL MEDIA DESIGN & PRODUCTION-YEARBOOK 1**1 Credit/Year****TE3005 (SEM 1) AND TE3006 (SEM 2)****Grade: 10-12**

Prerequisite: 21st Century Journalism and Graphic Design Fundamentals; instructor permission During this course, students will contribute to the school yearbook and the student publications website. Students will sell advertising, determine and create written and visual content, adapting it to print and digital formats. Students will devote time outside of school to the production effort.

STUDENT NEWS: DIGITAL MEDIA PROJECT MANAGEMENT-YEARBOOK 2**1 Credit/Year****TE307A (SEM 1) AND TE307B (SEM 2)****Grade: 11-12****Prerequisite: Digital Media Design & Production and instructor permission**

During this course, students will provide mid-level leadership in producing the school yearbook and the student publications website. Students will sell advertising, determine and create written and visual content, adapting it to print and digital formats. Students will devote time outside of school to the production effort.

PHOTOGRAPHY**0.5 Credit/Year****TE3580****Grade: 10-12****Prerequisite: Photo Imaging****Course Fee: \$20**

This course allows students to capture high-quality images in various settings; sports events, extra-curricular activities, school-wide events, etc. The photos will be used for student publications (newspaper and yearbook). In addition, students would participate in visual art challenges and potentially have the opportunity to offer photoshoots

ADVANCED PHOTOGRAPHY**1 Credit/Year****TE358A and TE358B****Grade: 11,12****Prerequisite: Photography****Course Fee: \$20**

During this course, students will provide mid-level leadership in producing the student publications and the student publications website. Students will sell advertising, determine and create written and visual content, adapting it to print and digital formats. Students will devote time outside of school to the production effort.

CAPSTONE: ARTS & MEDIA

Workplace Experience

1 credit/Year**CS102A (SEM 1) AND CS102B (SEM 2)****Grade: 12****Prerequisite:** All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

GRAPHIC DESIGN Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Intro to Drawing and Design (0.5) Graphic Design Fundamentals (0.5)	Graphic Design (1) <i>Business Communications (0.5)</i> <i>9th or 10th grade</i>	Graphic Design Project Management (1) <i>*Piper Graphics*</i>	Capstone Courses: Media Technology Workplace Experience (1) <i>*Piper Graphics*</i>

INTRODUCTION TO DRAWING AND DESIGN**0.5 Credit/Semester****TE3008****Grades: 9-12****Prerequisite: None**

Introduction to Drawing emphasizes the development of fundamental drawing skills. Focus will be on the application of art theory, processes and techniques that increase the power of observation. Instruction includes the elements and principles of design as applied in composition through hard copy and/or electronic software.

GRAPHIC DESIGN FUNDAMENTALS**0.5 Credit/Semester****TE108C****Grades: 9-12****Prerequisite: Introduction to Drawing and Design**

This class will provide a basic understanding of the graphic design process. Topics include analyzing the design elements and principles, exploring industry tools, software and equipment and learning composition techniques to develop a quality product. Students will learn how to use Adobe InDesign to create print and digital projects.

GRAPHIC DESIGN**1 Credit/Year****TE113A (SEM 1) AND TE113B (SEM 2)****Grade: 9-12****Prerequisite: Graphic Design Fundamentals**

During this course students will learn how to use Adobe Illustrator to create vector graphics. Students will also learn how to use iMovie, Garage Band, After Effects and other computer programs to produce engaging digital communications.

GRAPHIC DESIGN PRODUCT MANAGEMENT (Piper Graphics)**1 Credit/Year****TE3109****Grade: 11-12****Prerequisite: Graphic Design**

During this course students will use the design principles and computer program knowledge they learned in the prerequisite courses and apply it to create different projects for the Piper school district and community. Students will interact with clients, work with deadlines and produce print material, web designs, t-shirt designs and more to

be distributed to the public. Students will create and maintain their own digital portfolio website throughout the course .

CAPSTONE: ARTS & MEDIA Workplace Experience

1 credit/Year

CS102A (SEM 1) AND CS102B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

PERFORMING ARTS Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Vocal			
	Concert Choir (1)	Concert Choir (1) and/or Bella (1) and/or Music-n-Motion (1)	Concert Choir (1) , Bella (1) and/or Music-n-Motion (1) Music Theory A Optional College Music Appreciate via Baker	Concert Choir (1) and/or Bella (1) and/or Music-n-Motion (1) Capstone Experience (1) Music Theory B (1) (AP Music Theory) Optional College Music Appreciate via Baker
	Instrumental			
	Marching Band and/or Jazz Band (1)	Marching Band and/or Jazz Band (1)	Marching Band and/or Jazz Band (1) Music Theory A (1) Optional College Music Appreciate via Baker	Marching Band and/or Jazz Band (1) Capstone Experience (1) Music Theory B (1) (AP Music Theory) Optional College Music Appreciate via Baker
	Performing			
	Theatre 1 and/or Debate 1 and/or Forensics 1	Theatre 2 and/or Debate 2 and/or Forensics 2	Theatre 2 and/or Debate 3 and/or Forensics 3	Theatre 2 and/or Debate 4 and/or Forensics 4

DEBATE 1: BASIC ARGUMENTATION

0.5 Credit/Semester

FA1028

Grade: 9-12

Prerequisite: None

Course fee: \$25

Students will focus on common policy debate practices and procedures. Students will utilize a variety of research strategies and create arguments based on the Toulmin Model of Argumentation. Students will demonstrate appropriate public speaking techniques. For the completion of this course students are required to participate in 3

tournaments and attend the Piper Invitational Tournament. *This course can be used as an Oral Communications credit.*

DEBATE 2: ADVANCED ARGUMENTATION

0.5 Credit/Semester

FA1026

Grade: 10-12

Prerequisite: Debate 1

Students will continue to demonstrate their knowledge of common policy debate practices and procedures. Students will construct new arguments based on the Toulmin Model of Argumentation. Students will learn advanced strategies for competitive policy debate. Students will begin exploration of syllogism and enthymeme as they relate to logical argumentation. For the completion of this course students are required to participate in 4 tournaments and attend the Piper Invitational Tournament. Students will also be required to attend 5 squad practice hours during the semester. *This class can be used as an Oral Communications credit.*

DEBATE 3: RHETORIC AND LOGIC

0.5 Credit/Semester

FA1027

Grade: 11-12

Prerequisite: Debate 2

Students in this course will continue to demonstrate effective research strategies. Students will more fully develop their understanding of more advanced rhetorical devices through assigned readings. Students will adapt these strategies to competitive policy debate in order to identify logical fallacies in argumentation. For the completion of this course students are required to participate in 4 tournaments and attend the Piper Invitational Tournament. Students will also be required to attend 7 squad practice hours during the semester. *This class can be used as an Oral Communications credit.*

HONORS DEBATE 3: RHETORIC AND LOGIC

0.5 Credit/Semester

FA2027

Grade: 11-12

Prerequisite: Debate 2

Students in this course will continue to demonstrate effective research strategies. Students will more fully develop their understanding of more advanced rhetorical devices through assigned readings. Students will adapt these strategies to competitive policy debate in order to identify logical fallacies in argumentation. For the completion of this course students are required to participate in 4 tournaments and attend the Piper Invitational Tournament. Students will also be required to attend 10 squad practice hours during the semester. *This class can be used as an Oral Communications credit.*

DEBATE 4: PHILOSOPHY AND REASON

0.5 Credit/Semester

FA1029

Grade: 12

Prerequisite: Debate 3 or Honors Debate 3

Students will continue to utilize previously learned argumentation and research strategies. In addition, students will begin to construct and develop more theoretical arguments. Students will question the underlying assumptions of arguments. Students will focus on epistemological and ontological perspectives. For the completion of this course students are required to participate in 4 tournaments and attend the Piper Invitational Tournament. Students will also be required to attend 10 squad practice hours during the semester. *This class can be used as an Oral Communications credit.*

HONORS DEBATE 4: PHILOSOPHY AND REASON

0.5 Credit/Semester

FA2029

Grade: 12

Prerequisite: Debate 3 or Honors Debate 3

Students will continue to utilize previously learned argumentation and research strategies. In addition, students will begin to construct and develop more theoretical arguments. Students will question the underlying assumptions of arguments. Students will focus on epistemological and ontological perspectives. For the completion of this course students are required to participate in 5 tournaments and attend the Piper Invitational Tournament. Students will also be required to attend 12+ squad practice hours during the semester. There is a summer assignment and additional assignments related to the current resolution. This is a weighted class. *This class can be used as a Communications credit.*

THEATRE 1**0.5 Credit/Semester****FA5001****Grade: 9-12****Prerequisite: None**

During this course, students will learn a variety of acting techniques with a basis in story-telling and realistic characterization. Students will demonstrate acting techniques through performance, writing and oral presentations.

REPERTORY THEATER**1.0 Credit/Semester****FA5005 AND FA5006****Grade: 10, 11, 12****Prerequisite: Theatre 1 and/or Concert Choir**

This is an audition-based course; students will audition in the spring semester for enrollment in the following academic year. Students will work individually and in small groups to prepare scenes, songs and full productions of Musical Theatre works. Students will receive one-on-one vocal, acting, and dance training to develop their performance abilities and provide further opportunities to reach their full performance potential. Students will develop skills in public speaking, vocal performance, literature interpretation, interpersonal/intrapersonal communication, evaluation of literature, and character development. Students will construct a portfolio of work at the completion of each year to utilize for auditions for college, community theatre or other performances. This individual portfolio will include resumes, headshots, vocal scores, and monologues. Students will utilize this training to complete in-class auditions for a showcase/production that will take place during the Spring semester.

STAGECRAFT**0.5 Credit/Semester****FA5003****Grade: 9, 10, 11, 12****Prerequisite:**

Stagecraft will provide students with hands-on experiences of the fundamentals of theatrical design including scenic construction, sound design, and lighting design. Students will learn the responsibilities and functions of various design positions in the theatrical world, practice with the same tools these professionals use in the industry, and eventually use these tools to design and build original work and implement these works into theatrical productions at Piper High School and, ultimately, beyond.

TECHNICAL PRODUCTION**0.5 Credit/Semester****FA5004****Grade: 9, 10, 11, 12****Prerequisite:**

In this course, students will work hands-on with various materials and resources to develop necessary skills within the following areas of theatrical work: costumes, props, hair, and makeup design. Units will include an introduction to costume design and construction, application of theatrical makeup, prop design and creation, and how to style hair for theatre. Students will explore the importance of these aspects in their relation to theatrical performances while completing student-centered projects that demonstrate their mastery of components and learning targets.

FORENSICS 1: BASIC COMPETITIVE ACTING, SPEECH, & DEBATE**0.5 Credit/Semester****FA1030****Grade: 9-12****Prerequisite: None****Course fee: \$25**

During this course, students will gain research abilities, demonstrate speaking styles, learn basic characterization techniques, and write critiques of fellow students with the aim of competing in interscholastic meets sponsored through KSHSAA. Students are required to compete in at least three Saturday tournaments and attend the PHS host tournament. *This course can be used as an Oral Communications credit.*

FORENSICS 2: ADVANCED COMPETITIVE ACTING, SPEECH & DEBATE**0.5 Credit/Semester****FA1032****Grade: 10-12****Prerequisite: Forensics 1**

In this course, students will expand on the skills developed in the Basics course and mentor less-experienced students. Students will serve as peer coaches, demonstrate a variety of rehearsal techniques, and create multiple

polished performance pieces with the aim of competing in interscholastic meets sponsored through KSHSAA. Students are required to compete in at least four tournaments and attend our home tournaments. Students and families should be warned that most competitions are on Saturdays. Lastly, students will be expected to participate in a minimum of four hours of coaching outside of the regularly scheduled class time. *This course can be used as an Oral Communications credit.*

HONORS FORENSICS 3: RHETORIC & INTERPRETATION

0.5 Credit/Semester

FA2033

Grade: 11, 12

Prerequisite: B or better in Forensics 2 and instructor permission

In this course, students will focus on their ability to wordsmith and interpret performance pieces. Students will conduct five hours of peer coaching hours outside of the classroom, serve as group leaders within the classroom, demonstrate a variety of interpretation techniques, and create multiple polished performance pieces with the aim of competing in interscholastic meets sponsored through KSHSAA. Students are required to compete in at least five tournaments and attend our home tournament. Students and families should be warned that most competitions are on Saturdays. Students will complete a pre-season reading and cutting assignment prior to the beginning of the course. This is a weighted class. *This class can be used as an Oral Communications credit.*

FORENSICS 3: RHETORIC & INTERPRETATION

0.5 Credit/Semester

FA1033

Grade: 11, 12

Prerequisite: Forensics 2

In this course, students will focus on their ability to wordsmith and interpret performance pieces. Students will serve as peer coaches, demonstrate a variety of interpretation techniques, and create multiple polished performance pieces with the aim of competing in interscholastic meets sponsored through KSHSAA. Students are required to compete in at least four tournaments and attend our home tournaments. Students and families should be warned that most competitions are on Saturdays. Lastly, students will be expected to participate in a minimum of five hours of coaching outside of the regularly scheduled class time. *This course can be used as an Oral Communications credit.*

FORENSICS 4: COMMUNICATION & PERFORMANCE

0.5 Credit/Semester

FA1031

Grade: 12

Prerequisite: Forensics 3

In this course, students will focus on their ability to tailor performances to specific judge expectations. Students will serve as peer coaches, demonstrate a variety of interpretation and adaptation techniques, and create multiple polished performance pieces with the aim of competing in interscholastic meets sponsored through KSHSAA. Students are required to compete in at least four tournaments and attend our home tournaments. Students and families should be warned that most competitions are on Saturdays. Lastly, students will be expected to participate in a minimum of six hours of coaching outside of the regularly scheduled class time. *This course can be used as an Oral Communications credit.*

HONORS FORENSICS 4: COMMUNICATION & PERFORMANCE

0.5 Credit/Semester

FA2031

Grade: 12

Prerequisite: B or better in Forensics 3 and instructor approval

In this course, students will focus on their ability to tailor performances to specific judge expectations. Students will conduct five hours of peer coaching hours outside of the classroom, serve as group leaders within the classroom, demonstrate a variety of interpretation and adaptation techniques, and create multiple polished performance pieces with the aim of competing in interscholastic meets sponsored through KSHSAA. Students are required to compete in at least six tournaments and attend our home tournament. Students and families should be warned that most competitions are on Saturdays. Students will complete a pre-season research project prior to the beginning of the course. This is a weighted class. *This class can be used as an Oral Communications credit.*

MARCHING/CONCERT BAND

1 Credit/Year

FA526A (SEM 1) OR FA526B (SEM 2)

Grade: 9-12

Prerequisite: Instrumental Experience

During this course, students will learn to perform several contrasting compositions and develop skills related to different musical styles, meters, and interpretations. Students will identify and demonstrate different composers' styles in the venue and develop the ability to participate in any musical ensemble with confidence and enthusiasm.

JAZZ BAND

1 Credit/Year

FA508A (SEM 1) OR FA508B (SEM 2)

Grade: 9-12

Prerequisite: Instrumental Experience and instructor permission

During this course, students will learn to perform a variety of compositions in several different styles such as jazz, blues, and pop. Students will develop and demonstrate skills related to contrasting meters, progressions, and interpretations.

CONCERT CHOIR

1 Credit/Year

FA509A (SEM 1) OR FA509B (SEM 2)

Grade: 9-12

Prerequisite: None

During this course, students will perform a varied repertoire of music and focus on the basics of choral tone and sight-singing. Students enrolled in Concert Choir will be required to participate in scheduled evening performances. Students may enroll in Concert Choir for either a semester or for the full year. Concert Choir is an entry-level choir that is open to any PHS student.

BUSINESS IN MUSIC

0.5 Credit/Semester

FA5014

Grade: 10, 11, 12

Prerequisite: Business Essentials or Choir or Band

Students will study intellectual property law in terms of creating or utilizing music in music production, advertising, media production and event planning. Students will use music to create advertisements, original compositions or programs for events. Students will research Academy specific topics throughout the course creating projects, lesson plans and programs utilizing music in their business. *Counts only as a fine arts ,Academy elective or elective credit.*

BELLA VOCE

1 Credit/Year

FA510A (SEM 1) OR FA510B (SEM 2)

Grade: 10-12

Prerequisite: Audition

During this course, students will perform a varied repertoire of music and focus on advanced levels of performance including the addition of staging and dance. Students enrolled in this course will be required to participate in scheduled evening performances and Saturday small ensemble competitions. Students interested in participating in this course must complete a vocal and dance audition process in the spring of the year preceding enrollment. Students will be required to pay a yearly rental fee for outfits of \$30.00 in addition to purchasing additional performance attire at the approximate cost of \$60.00-\$70.00. Bella Voce is an advanced-level audition choir open to PHS sophomore, junior and senior girls.

MUSIC-N-MOTION

1 Credit/Year

FA511A (SEM 1) OR FA511B (SEM 2)

Grade: 10-12

Prerequisite: Audition

During this course, students will perform a varied repertoire of music and focus on advanced levels of performance including the addition of staging and dance. Students enrolled in this course will be required to participate in scheduled evening performances and Saturday small ensemble competitions. Students interested in participating in this course must complete a vocal and dance audition process in the spring of the year preceding enrollment. Students will be required to pay a yearly rental fee for outfits of \$30.00 in addition to purchasing additional performance attire at the approximate cost of \$60.00-\$70.00. Music-n-Motion is a full year commitment. Music-n-Motion is an advanced level audition choir open to PHS sophomores, juniors and seniors.

ROAD TO ROCK

0.5 Credit/Semester

FA5015

Grade: 9-12

Prerequisite: None

During this course, students will learn about the history of today's popular music and the cultural influences that created the unique sounds of rap, country, R&B, and rock music. Students will also define how advances in technology have changed music as well as how historical and political events have shaped today's music industry.

UNDERSTANDING MUSIC (MUSIC APPRECIATION) VIA BAKER UNIVERSITY

0.5 Credit/Semester

FA5010- Local HS Course Code

MU120 - College Course Code

Grade: 11-12

Prerequisite: Minimum 1.0 Credit of PHS Performing Arts courses

This course surveys music and its role in societies from prehistory through the present day. The course focuses on the development of appropriate listening skills as the student becomes increasingly aware of the role of music throughout the ages, the role it plays today, and the role it will play in the future. *This course requires enrollment at Baker University and costs \$113 per credit hour.*

MUSIC THEORY 1

0.5 Credit/Semester

FA5012

Grade: 11-12

Prerequisite: None

During this course, students will learn the basic structure of music including key signatures, meter, chord progressions, melodic and harmonic dictation, basic part writing and basic sight singing and entertaining.

MUSIC THEORY 2: AP Music Theory

0.5 Credit/Semester

FA5013

Grade: 11-12

Prerequisite: Music Theory 1

CAPSTONE: ARTS & MEDIA

1 credit/Year

Workplace Experience

CS102A (SEM 1) AND CS102B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

VISUAL ARTS Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Intro to Drawing and Design (0.5) Art 1 (0.5)	Art 2 (0.5) Drawing (0.5)	Ceramics and Sculpture (0.5) OR Painting (0.5)	Capstone Experience (1) Senior Portfolio (0.5) or Studio Studies Ceramics and Sculpture 2 (0.5)

INTRODUCTION TO DRAWING AND DESIGN**0.5 Credit/Semester****TE3008****Grades: 9-12****Prerequisite: None**

Introduction to Drawing emphasizes the development of fundamental drawing skills. Focus will be on the application of art theory, processes and techniques that increase the power of observation. Instruction includes the elements and principles of design as applied in composition through hard copy and/or electronic software.

Art 1**0.5 Credit/Semester****FA5016****Grade: 9-12****Prerequisite: None**

Art 1 is a foundational course that focuses on the use of the design process in the development of ideas for original art works. Students will be able to identify different elements and principles of design as they are utilized in both their own work and the examples of design and fine art that will be explored during the semester.

ART 2**0.5 Credit/Semester****FA5017****Grade: 9-12****Prerequisite: Art 1 and Introduction to Drawing and Design**

During this course, students will further develop their design and technical skills that were learned in Introduction to Drawing and Design. Students will be able to identify the elements and principles of art and design as they are utilized in their own work, as well as examples of fine art that will be explored during the semester.

DRAWING**0.5 Credit/Semester****FA5156****Grade: 9-12****Prerequisite: Art 1 and Introduction to Drawing and Design**

This drawing course will focus on the development of observational and technical skills used to develop a 2 dimensional image from a 3 dimensional form. Students will explore the use of proportion, perspective, value, and color to accurately render an image on paper. Chalk and Paste properties will be explored as different avenues to achieving a completed image.

PAINTING**0.5 Credit/Semester****FA5157****Grade: 10-12****Prerequisite: Art 1**

An introduction to the transparent media of watercolor painting, opaque acrylic painting and other paint media. Major emphasis is on experiencing a variety of techniques and creating composition through observation.

CERAMICS & SCULPTURE 1**0.5 Credit/Semester****FA5020****Grade: 10-12****Prerequisite: Art 2**

In Ceramics & Sculpture 1 students will spend up to 50% of the semester developing skills for constructing ceramic pieces on the potters' wheel. The remainder of the semester will be spent developing specific skills for constructing ceramic pieces and sculpture using hand building methods. Students will explore the properties and limitations of the material in order to express an idea or develop a visual image.

CERAMICS & SCULPTURE 2**0.5 Credit/Semester****FA50121****Grade: 10-12****Prerequisite: Ceramics & Sculpture 1**

In Ceramics & Sculpture 2 students will have the opportunity to choose their own direction of study. Students will further explore hand built sculpture, wheel thrown forms, or a combination of both. Students will continue to explore the limitations of new materials and their ability to express an idea or develop a visual image.

STUDIO STUDIES**0.5 Credit/Semester****FA524A (SEM 1) OR FA524B (SEM 2)****Grade: 11, 12****Prerequisite: Instructor Permission**

Studio Studies is a course designed to allow students who are not ready for Sr. Portfolio or are interested in developing a formal portfolio to further explore a single area of art such as a third level of Ceramics & Sculpture or Drawing & Painting. Students will work with assignments that further specific skill development through the exploration of specific topics and themes.

CAPSTONE: ARTS & MEDIA**1 credit/Year****Workplace Experience****CS102A (SEM 1) AND CS102B (SEM 2)****Grade: 12****Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined**

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

HUMAN SERVICES ACADEMY

ALL ACADEMY COURSES				
Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Essentials of Fashion and Interior Design	0.5	9-12	None	Elective
Business Essentials	0.5	9-12	None	Elective
Intro to Drawing and Design	0.5	9-12	None	Elective
Apparel Production 1	0.5	10-12	Essentials of Fashion and Interior Design, Intro to Drawing FAID (concurrently)	Elective
Apparel Production 2	0.5	11-12	Apparel and Production 1	Elective
Interior Design	0.5	10-12	Intro to Drawing FAID (concurrently), Essentials of Fashion and Interior Design	Elective
Drafting	0.5	9-12	Algebra 1 or concurrently enrolled	Elective
Architecture Design	1	10-12	Drafting	Elective
Fashion Trends	0.5	11-12	Essentials of Fashion and Interior Design	Elective
Fashion Apparel and Interior Design (FAID) Studio	1	12	Apparel Production 2, Architecture Design	Elective
Human Growth and Development	0.5	9-12	None	Elective
Lifespan Development	0.5	10-12	Human Growth and Development	Elective
Nutrition and Wellness	0.5	9-12	None	Elective
Culinary Essentials	0.5	9-12	None	Elective
Culinary Arts 1	1	10-12	Culinary Essentials	Elective
Culinary Arts 2	0.5	11-12	Culinary Arts 1	Elective
Culinary Applications	1	12	Culinary Arts 2	Elective
Consumer Ed and Personal Finance	0.5	11-12	None	Elective
Family Studies	0.5	10-12	Human, Growth, and Development A	Elective
Psychology	0.5	11-12	None	Elective SS Elective
AP Psychology	1	12	None	Elective SS Elective
Baking and Pastry 1	0.5	10-12	Business Essentials or Career and Life Planning (Academy Prep), Culinary Essentials	Elective
Baking and Pastry 2	0.5	11-12	Baking and Pastry 1	Elective
Event Planning and Management	0.5	10-12	Career and Life Planning (Academy Prep) or Business Essentials	Elective

Foundations of Travel and Tourism	0.5	10-12	Event and Planning Management	Elective
Entrepreneurship	0.5	10-12	Business Essentials	Elective
Foundations of Hospitality and Lodging	0.5	11-12	Foundations of Travel and Tourism	Elective
Hospitality Lodging and Management	1	12	Foundations of Hospitality and Lodging	Elective
Career/Community Connections	1	12	2 credits of Family, Consumer, Science Courses	Elective
CAPSTONE: Human Services	0.5 or 1	12	All Seniors will enroll in an Academy Capstone Experience course, length of course dependent on grad year	Elective

FASHION AND INTERIOR DESIGN Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Fashion and Apparel			
	Intro to Drawing FAID (0.5) Essentials of Fashion and Interior Design (0.5)	Apparel Production 1 (0.5)	Apparel Production 2 (0.5) Fashion Trends (0.5)	Capstone Experience (1) FAID Studio and/or Career Connections (1)
	Interior Design			
	Essentials of Fashion and Interior Design (0.5) *Drafting (0.5) *can be taken 9th or 10th grade	Interior Design (0.5) *Drafting (0.5) *can be taken 9th or 10th grade	Architecture Design (1)	Capstone Experience (1) : FAID Studio and/or Career Connections (1)

ESSENTIALS OF FASHION AND INTERIOR DESIGN

0.5 credit/Year

FC1000

Grade: 9-12

Prerequisite: None

Essentials of Interior and Textile Design introduces students to and expands upon the various aspects of industry, conveying the commercial application of principles and elements of design, production processes, and maintenance techniques to meet the design needs of humans. This course will also provide a discussion and exploration of career opportunities in interior, textiles, and set/exhibit design.

INTRODUCTION TO DRAWING AND DESIGN

0.5 Credit/Semester

TE3008

Grades: 9-12

Prerequisite: None

Introduction to Drawing emphasizes the development of fundamental drawing skills. Focus will be on the application of art theory, processes and techniques that increase the power of observation. Instruction includes the elements and principles of design as applied in composition through hard copy and/or electronic software.

Intro to DRAWING FAID

0.5 Credit/Semester

DM0901

Grade: 9-12

Prerequisite: Fashion and Apparel Sector declared

This drawing course will focus on the development of observational and technical skills used to develop a 2 dimensional image from a 3 dimensional form. Students will explore the use of proportion, perspective, value, and color to accurately render an image on paper. Chalk and Paste properties will be explored as different avenues to achieving a completed image.

DRAFTING**0.5 Credit/Semester****DR1000****Grade: 9-12****Prerequisite: Algebra 1 or concurrently enrolled in Algebra 1**

Students will learn the basics of mechanical drafting techniques and equipment. Through use of labs and small research projects students will learn the basic conventions of drafting skills including sketching, orthographic projection, isometric drawings, layout, measuring, scaling, and section drawings. This is a pencil and paper drafting class.

INTERIOR DESIGN**0.5 Credit/Year****FC1100****Grade: 10-12****Prerequisite: Essentials of Fashion and Design and Drafting**

Interior Design courses provide students with knowledge and skills regarding interior design. While exploring design principles, personal needs and style and decision making, students may have an opportunity to explore such topics as color, texture, furniture styles and arrangement, lighting, window treatments, floor, wall coverings and home improvement/modification.

ARCHITECTURAL DESIGN**1 Credit/Year****DR214A (SEM 1) AND DR214B (SEM 2)****Grade: 10-12****Prerequisite: Drafting**

Students will explore the fundamentals of designing and drawing criteria and building codes. Students will utilize drawing tools and computer aided drafting (CAD) software along with decision-making skills and creativity to design and draft a residential house plan. Students will explore their designs in a Virtual Reality space and students will build scale models of their final project.

APPAREL PRODUCTION 1**0.5 credit/Year****FC1001****Grade: 10-12****Prerequisite: Essentials of Fashion and Interior Design, Concurrent Intro to Drawing FAID**

Clothing and Textiles courses introduce students to and expand upon the various aspects of apparel, garment construction, and the textile industry, conveying the commercial application of design principles, production processes, and maintenance techniques. These courses usually address the selection, characteristics, care, and repair of various textiles; operation and care of commercial sewing machines; design, construction, and production of fabrics and/or garments; and career opportunities in the garment or textile industry.

APPAREL PRODUCTION 2**0.5 credit/Year****FC1001****Grade: 11-12****Prerequisite: Apparel Production 1**

Apparel Construction courses provide students with the knowledge and skill to construct, alter, and repair clothing and textile products. Course topics typically include taking measurements, creating and preparing patterns, and various sewing techniques; topics may also include customer service, fashion design principles, and business management. These courses may also offer specialized knowledge in a particular type of garment.

FASHION TRENDS**0.5 credit/Year****FC1003****Grade: 11-12****Prerequisite: Essentials of Fashion and Interior Design**

A trend in Interior and TExtile Design examines special topics in interiors and apparel that meet the needs of humans now and projected in the future, rather than providing a general study Topics include sustainable design, shelter/apparel for diverse populations (such as aging, special needs, etc) and how trends are developed Additional topics will be generated as trends are identified.

FAID STUDIO**1 credit/Year****FC110A (SEM 1) AND FC110B (SEM 2)****Grade: 12****Prerequisite: Apparel and Production 2, Architecture Design**

Interior and Textile Design Studio provides students with the opportunity to expand knowledge and experiences with 4-dimensional design forms as they relate to human needs. Topics will include the language, materials, and processes used to apply the design elements and principles based upon designers, periods, and styles. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own design styles to meet the needs of a client. This application course is client driven in the interior, textile or apparel fields.

CAPSTONE: HUMAN SERVICES

1 credit/Year

Workplace Experience

CS103A (SEM 1) AND CS103B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

FAMILY AND BEHAVIORAL SCIENCE Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Human Growth and Development (0.5) Nutrition and Wellness (0.5)	Family Studies (0.5) Lifespan Development (0.5)	Psychology (0.5) Sociology (0.5) or College Sociology	AP Psychology (1) OR College Psychology (0.5) Capstone Experience ()

NUTRITION AND WELLNESS

0.5 Credit/Semester

FC2353

Grade: 9-12

Prerequisite: None

This course focuses on consumer education topics (such as money management and evaluation of consumer information and advertising) and personal health topics (such as nutrition, stress management, drug/alcohol abuse prevention and disease prevention). Course objectives include helping students develop decision-making, communication, interpersonal, and coping skills and strategies.

HUMAN GROWTH & DEVELOPMENT

0.5 Credit/Semester

FC4504

Grade: 9-12

Prerequisite: None

Human Growth and Development A provides students with knowledge about the physical, mental, emotional, and social growth and development of humans from conception to old age, **with a special emphasis on birth through school age**. Course content will provide an overview of life stages, with a strong tie to prenatal and birth processes; fundamentals of children's emotional and physical development; and the appropriate care of children.

LIFESPAN DEVELOPMENT

0.5 Credit/Semester

FC2257

Grade: 9-12

Prerequisite: None

Lifespan Development prepares students for occupations associated with meeting the needs of people by learning about physical, intellectual, emotional and social development from childhood to death. In addition, this

course helps students discover how individuals respond to the various stages of the lifespan with a strong tie to teen years, adulthood and later years.

FAMILY STUDIES

0.5 Credit/Semester

FC2254

Grade: 10-12

Prerequisite: Human, Growth, and Development A

This course emphasizes building and maintaining healthy interpersonal relationships among family members and other members of society. It also reviews topics such as social/dating practices, human sexuality and reproduction, marriage preparation, parenthood and the function of the family unit, and the various stages of life. It may also cover topics related to individual self-development, career development, personal awareness, and preparation for the responsibilities of a family member and wage earner.

CONSUMER EDUCATION AND PERSONAL FINANCE

0.5 Credit/Semester

FC2251

Grade: 11-12

Prerequisite: None

This course provides a real-life curriculum to understand best practices regarding financial decisions and goal setting for the future. It is designed to integrate multiple life roles and responsibilities in family, work and community settings. The students will analyze strategies to manage multiple roles and responsibilities individually, in family and in career, as well as demonstrate transferable and employability skills in school, community and workplace settings, and develop strategies for balancing family responsibilities which impact work environments.

PSYCHOLOGY

0.5 Credit/Year

SS4013

Grade: 11-12

Prerequisite: None

During this course, students will learn about personality theories, human development, abnormal behaviors and treatments of mental health as well as ways to change and improve personal behavior.

AP PSYCHOLOGY

1 Credit/Year

SS414A (SEM 1) AND SS414B (SEM 2)

Grade: 12

Prerequisite: None

During this course, students will analyze and compare various personality theories, apply personality theories to the treatment of mental illness, examine all aspects of human development and assess key factors in that development, write extensively about their opinions on illnesses and treatment techniques, conduct research and develop, perform, and write a reaction paper to a psychological experiment. Students may take the Advanced Placement (AP) Psychology test in May to try and achieve college credit for this course. **This course earns a weighted-grade and requires more in-depth study of the curriculum. Students should carefully consider the extra time needed for this challenging course. This course requires a contract with a commitment of not dropping the course as well as summer assignment(s).**

COLLEGE PSYCHOLOGY (PSYC 101)

0.5 Credit/Semester

SS4018 (SEM 2)

Grade: 11-12

Prerequisite: English ACT 18 or higher or 255 or above on the Reading portion of the Accuplacer

During this course, students will be introduced to the basic concepts, theories, and research findings in the evolving field of psychology. Students will learn to think psychologically, by gaining insight into themselves and the dynamics of human thinking, behavior, and emotions. *This course can be taken for 3 hours of college credit through KCKCC and may fulfill a social science class that would be required for a bachelor's degree. This course costs \$89 per credit hour.*

COLLEGE SOCIOLOGY (SOSC 107)

0.5 Credit/Semester

SS4019

Grade: 11-12

Prerequisite: English and Reading ACT 18+ or 255 or above on the Reading portion of the Accuplacer

During this course, students will get a general introduction to the field of sociology. It includes both a study of the theoretical aspects, as well as the actual behavior pattern of human groups and associations. Emphasis is placed

on scientific evidence to illustrate and illuminate sociological theories and principles. *This course is taken via KCKCC for dual credit. It costs \$89 per credit hour and is 3 total credit hours.*

CAPSTONE: HUMAN SERVICES

1 credit/Year

Workplace Experience

CS103A (SEM 1) AND CS103B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

RESTAURANT AND EVENT MANAGEMENT Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Culinary Essentials (0.5) Business Essentials (0.5)	Culinary Arts 1 (1) Baking & Pastry 1 (0.5) Event Planning and Management (0.5) <i>*10th or 11th</i>	Culinary Arts 2 (0.5) Baking & Pastry 2 (0.5) Event Planning and Management (0.5) <i>*10th or 11th</i> Optional KCKCC Culinary Program	Culinary Workplace Experience (1) Capstone Experience(1) Optional KCKCC Culinary Program I

BUSINESS ESSENTIALS

0.5 Credit/Semester

BU1210

Grade: 9-12

Prerequisite: None

During this course, students will gain an overview of occupations in business, marketing and finance. The course includes the study of types of business ownership, principles of business management and analysis of business practices to determine ethical and social responsibility.

NUTRITION AND WELLNESS

0.5 Credit/Semester

FC2353

Grade: 9-12

Prerequisite: None

This course focuses on consumer education topics (such as money management and evaluation of consumer information and advertising) and personal health topics (such as nutrition, stress management, drug/alcohol abuse prevention and disease prevention). Course objectives include helping students develop decision-making, communication, interpersonal, and coping skills and strategies.

CULINARY ESSENTIALS

0.5 Credit/Semester

FC6052

Grade: 9-12

Prerequisite: None

This course provides students with knowledge and skills related to sanitation and safety procedures, nutrition and dietary guidelines, food preparation (and quantity food production) and meal planning and presentation. IT may also include skills related to institutional and commercial food service, management and customer service.

CULINARY ARTS 1

1

Credit/Year

FC3456 (SEM 1) AND FC3457 (SEM 2)

GRADE: 10-12

Prerequisite: Culinary Essentials

This course provides students with the technical training to maintain high safety and sanitation standards, use and maintain food production equipment, use a variety of cooking methods, and prepare a variety of dishes that include meats, sauces, soups, fruits, vegetables, legumes, starches, and grains, cold food prep, breakfast preparation, baking, and the use of herbs and spices in cooking. Students will also learn about management and professional practices in the culinary industry pertaining to scaling, math, customer service, budgeting, and other pertinent areas.

BAKING & PASTRY 1

0.5 CREDIT/SEMESTER

COURSE CODE: CA100

Grade: 10-12

Prerequisite: Business Essentials and Culinary Essentials

In this course, students will learn the technical skill set associated with production of various baked goods that are common in both the restaurant and hospitality industry. In this course, students will become proficient in preparing quick breads, yeast breads, a variety of cookies, cakes, pies and tarts, pastry, and custards. Students will also receive experience in adapting recipes for special dietary needs and client requests.

CULINARY ARTS 2

0.5 Credit/Year

FC3458

GRADE: 11-12

Prerequisite: Culinary Arts 1

Culinary Arts II builds upon the Culinary Arts I course by expanding student knowledge, skills and practices. Whereas Culinary Arts I focused on beginning culinary skill development, Culinary Arts II expands those skills as well as topics such as event management, internal and external customer service and working with special dietary needs.

BAKING & PASTRY 2

0.5 CREDIT/SEMESTER

COURSE CODE: CA101

Grade: 10-12

Prerequisite: Career & Life Planning OR Business Essentials, Culinary Essentials, Baking and Pastry 1

In this course students will continue to build on their knowledge of skills of baked goods and pastries that are common in higher end restaurants and hospitality establishments. Students will gain technical skills in preparing artisan breads, patisserie, specialty cookies and biscotti, choux pastry, and chocolate. Students will also gain experience in producing items for clients as well as adapting recipes and techniques to the needs of customers.

COMMUNITY CONNECTIONS

0.5 Credit/Semester

FC203B

Grade: 12

Prerequisite: Introduction level course and Technical level course in the Human Services Academy

Community Connections course provides community based/school based learning experiences mainly within the family and consumer sciences classroom. Learning goals are set by the student, teacher and community partners to create experiences and/or discussions to enhance the development of the 21st century skills (i.e. leadership, empathy, communication, problem solving, cooperation, critical thinking, and resource management) needed to be successful in human services/family and consumer sciences related careers.

CULINARY WORKPLACE EXPERIENCE

1 Credit/Semester

CA110A (Sem 1) and CA110B (Sem 2)

Grade: 12

Prerequisite: Culinary Arts 1, Baking & Pastry 2

This course applies the skills needed in the culinary arts profession. It includes the application of skills within a school-based, community-based experience or work-based internship and will cover an introduction of all aspects of an industry. Students enrolled in this course are expected to have mastered skills in the culinary field so that

they are able to apply them in authentic experiences following industry standards and regulations. Local prerequisites apply.

CAPSTONE: HUMAN SERVICES

1 credit/Year

Workplace Experience

CS103A (SEM 1) AND CS103B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

TRAVEL AND TOURISM Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Business Essentials (0.5)	Event Planning and Management (0.5) Foundations of Travel and Tourism (0.5)	Entrepreneurship (0.5) Foundations of Hospitality and Lodging (0.5)	Capstone Experience (1) : Hospitality Lodging and Management (1)

BUSINESS ESSENTIALS

0.5 Credit/Semester

BU1210

Grade: 9-12

Prerequisite: None

During this course, students will gain an overview of occupations in business, marketing and finance. The course includes the study of types of business ownership, principles of business management and analysis of business practices to determine ethical and social responsibility.

CULINARY ESSENTIALS

0.5 Credit/Semester

FC6052

Grade: 9-12

Prerequisite: None

Course Fee: \$20

This course provides students with knowledge and skills related to sanitation and safety procedures, nutrition and dietary guidelines, food preparation (and quantity food production) and meal planning and presentation. IT may also include skills related to institutional and commercial food service, management and customer service.

ENTREPRENEURSHIP

0.5 Credit/Semester

BU1211

Grade: 10-12

Prerequisite: Business Essentials

During this course, students will learn and explore the personal characteristics and resources needed to profitably start and run a small business. Students will learn the basic concepts of entrepreneurship and the importance of small business within our free enterprise system. This course will provide students with knowledge of our free enterprise system that will prove beneficial for those entering the job market and for those pursuing higher education.

EVENT AND PLANNING MANAGEMENT**0.5 CREDIT/SEMESTER****Course Code: TT100****Grade: 10-12****Prerequisite: Career and Life Planning OR Business Essentials**

In this course students will learn about and practice the process of working with clients, planning an event, adapting to client feedback, and executing the shared vision of the event. Students will work with peers, clients, community members and organizations, and business as a part of their coursework. Students will learn about project management, budgeting, and effective communication of goals and visions with others.

FOUNDATIONS OF TRAVEL AND TOURISM**0.5 Credit/Year****FC1201****Grade: 10-12****Prerequisite: Event and Planning Management**

Foundations of Travel and Tourism will assist students in charting a career path in one of the world's largest industries... travel and tourism. It will look at the different segments of the tourism industry and explore careers that the industry offers. It looks at the economic impact and the ramifications of development to the economy. Students will also explore emerging trends and the impact of technology.

FOUNDATIONS OF HOSPITALITY AND LODGING**0.5 Credit/Year****FC1202****Grade: 11-12****Prerequisite: Foundations of Travel and Tourism**

This course provides students with an overview of the knowledge and skills related to the business of lodging. It will include an exploration of the many aspects of the industry, basic processes and procedures (i.e. housekeeping, check in procedures) as well as the guest cycle

HOSPITALITY AND LODGING MANAGEMENT**1 Credit/Year****FC120A (SEM 1) AND FC120B (SEM 2)****Grade: 12****Prerequisite: Business Essentials**

This course is designed to provide an authentic experience within the lodging industry. Content will include the analysis, observation and demonstration of skills necessary for success. An introduction to all aspects of the industry will be included (i.e. management, financial, front office, housekeeping, food service and guest services).

CAPSTONE: HUMAN SERVICES**1 credit/Year****Workplace Experience****CS103A (SEM 1) AND CS103B (SEM 2)****Grade: 12****Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined**

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

HEALTH AND LIFE SCIENCES ACADEMY

ALL ACADEMY COURSES				
Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Environmental Science	1	9-12	Concurrent Enrollment in Biology	Elective Science
Animal Science	0.5	10-12	Environmental Science	Elective Science
Advanced Animal Science	0.5	11-12	Animal Science	Elective Science
Plant and Soil Sciences	0.5	10-12	Environmental Science	Elective

				Science
Greenhouse Production and Management	1	11-12	Plant and Soil Sciences	Elective Science
Application of Horticulture	1	12	Greenhouse Production and Management	Elective Science
Intro to Recreational Sports	0.5	9-12	None	Elective
Nutrition and Wellness	0.5	9-12	None	Elective
Introduction to Officiating	0.5	10-12	Intro to Recreational Sports, Nutritional and Wellness	Elective
Sports Medicine 1	1	11-12	Care of Athletes for the Health, Human Performance and Sports Recreation students Anatomy and Physiology for the Sports Medicine and Exercise Science Students	Elective
Sports and Entertainment Marketing	0.5	10-12	Business Essentials	Elective
Introduction to Healthcare	0.5	9-12	None	Elective
Anatomy and Physiology	1	10-12	Biology or Honors Biology	Elective Science
Medical Terminology	1	11-12	Intro to Healthcare and Anatomy & Physiology OR Princ. BioMed and Human Body Systems	Elective
Sports Medicine 2	1	11-12	Sports Medicine 1	Elective
Program Design/Sports Operation	1	12	Sports Medicine	Elective
CAPSTONE: Health and Life Sciences	0.5 or 1	12	All Seniors will enroll in an Academy Capstone Experience course, length of course dependent on grad year	Elective

PLANT AND ANIMAL SCIENCES Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Animal Sciences			
	Environmental Science (1)	Animal Science (1)	Advanced Animal Science (1) Chemistry (1)	Animal Health/Vet Tech (1) Capstone Experience (1)
	Plant Sciences			
	Environmental Science (1)	Plant and Soil (1)	Greenhouse Production and Management (1) Chemistry (1)	Capstone Experience (1) Application of Horticulture (1)

ENVIRONMENTAL SCIENCE
HS104A(SEM 1) AND HS104B(SEM 2)
Grade: 9-12

1 Credit/Year

Environmental Science courses examine the mutual relationships between organisms and their environment. In studying the interrelationships among plants, animals, and humans, these courses usually cover the following subjects: photosynthesis, recycling and regeneration, ecosystems, population and growth studies, pollution, and conservation of natural resources.

ANIMAL SCIENCE**1.0 Credit/Semester****HS100A (SEM 1) AND HS100B (SEM 2)****Grade: 10-12****Prerequisite: Intro to Plant and Animal Sciences**

Animal Science covers information about the care and management of domestic and farm animals including, but not limited to animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study particular species or they may learn how to care for and maintain livestock as a more inclusive study.

ADVANCED ANIMAL SCIENCE**1.0 Credit/Semester****HS101A (SEM 1) AND HS101B (SEM 2)****Grade: 11-12****Prerequisite: Animal Science**

Advanced Animal Science takes a deeper dive into the care and management of domestic and farm animals including, but not limited to, animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study particular species or they may learn how to care for and maintain livestock as a more inclusive study.

CHEMISTRY 1**1 Credit/Year****SC307A (SEM 1) AND SC307B (SEM 2)****Grade: 10-12****Prerequisite: Biology 1 and Algebra 2, Honors Algebra 2 or concurrent enrollment of Algebra 2/Honors Algebra 2**

During this course, students will learn about the scientific method, characteristics of matter, scientific measurement, atomic theory, periodic trends and properties, inorganic nomenclature, mole relationships and calculations, formulas, chemical reactions, stoichiometry, kinetic molecular theory, thermochemistry, acids and bases, bonding, and equilibrium.

PLANT AND SOIL SCIENCES**1.0 Credit/Semester****ST230A (SEM 1) AND ST230B (SEM 2)****Grade: 10-12**

Prerequisite: Intro to Plant and Animal Sciences Courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agriculture crops and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils & media mixtures, soil chemistry, fertility, mineralogy, hydrology, soil conservation, irrigation, fruit and vegetable production, turf/golf course management, interior and exterior landscaping, irrigation systems, weed & pest control, & floral design.

GREENHOUSE PRODUCTION AND MANAGEMENT**1 Credit/Year****HS104A (SEM 1) AND HS104B (SEM 2)****Grade: 11-12****Prerequisite: Plant and Soil Science**

Students will have the opportunity to produce, market different types of greenhouse plants grown in the school's greenhouse. Skills in management, plant identification, pests control, starting plants, watering, fertilizing, and salesmanship will be developed.

APPLICATION OF HORTICULTURE**1 Credit/Year****HS105A (SEM 1) AND HS105B (SEM 2)****Grade: 11-12****Prerequisite: Greenhouse Production and Management**

Applications in Horticulture provides instruction that incorporates plant science, soil and media mixtures, plant identification and optimal environments, and landscape design. This course will expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agriculture crops and vegetables. The course emphasizes applying such knowledge & skill to the design, establishment, and maintenance of lawns, parks, open space & similar environments. This course would include opportunities to design public and private spaces. Students will have the opportunity to produce, market different types of greenhouse plants grown in the school greenhouse. Skills in management, plant identification, pests control, starting plants, watering, fertilizing, and salesmanship will be developed.

CAPSTONE: HEALTH AND LIFE SCIENCES**1 credit/Year****Workplace Experience****CS104A (SEM 1) AND CS104B (SEM 2)****Grade: 12****Prerequisite:** All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

BioChemistry and BioMedical Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Biochemistry			
	Computing Systems (1)	Anatomy and Physiology (1)	Chemistry (1) Plant and Soil (1)	Bioengineering/Biotechnical Engineering (1) Capstone Experience (1)
	Plant Sciences			
	Principles of Biomedical Science (1)	Human Body Systems (1)	Chemistry (1) Medical Interventions (1)	Capstone Experience (1) Biomedical Innovation (1)

COMPUTER SYSTEMS**1.0 CREDIT/SEMESTER****COURSE CODE: CI1002A AND SEM 2: CI1002B****Grade: 9-12**

Computing Systems courses offer a broad exploration of the use of computers in a variety of fields. These courses have a considerable range of content, but typically include the introduction of robotics and control systems, computer-assisted design, computer-aided manufacturing systems, and other computer technologies as they relate to industry applications.

ANATOMY AND PHYSIOLOGY**1 Credit/Year****SC304A (SEM 1) AND SC304B (SEM 2)****Grade: 10-12****Prerequisite:** Biology 1

During this course, students will learn about the gross structures and functions in the human organism, abnormal pathological conditions that exist in humans, laboratory skills and dissection techniques. Student learning will focus on all body systems: skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, immune, digestive, reproductive etc. **Students should carefully consider the extra time needed for this challenging course.**

CHEMISTRY 1**1 Credit/Year****SC307A (SEM 1) AND SC307B (SEM 2)****Grade: 10-12****Prerequisite:** Biology 1 and Algebra 2, Honors Algebra 2 or concurrent enrollment of Algebra 2/Honors Algebra 2

During this course, students will learn about the scientific method, characteristics of matter, scientific measurement, atomic theory, periodic trends and properties, inorganic nomenclature, mole relationships and calculations, formulas, chemical reactions, stoichiometry, kinetic molecular theory, thermochemistry, acids and bases, bonding, and equilibrium.

PRINCIPLES OF BIOMEDICAL SCIENCE**1 credit/Year****ST2000 (SEM 1) AND ST2002 (SEM 2)****Grade: 9-12****Prerequisite: Successful completion of or concurrent enrollment in Biology**

This course provides an introduction to the biomedical sciences through exciting hands-on projects and problems. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. Engineering principles including the design process, feedback loops, and the relationship of structure to function are also incorporated. This course is designed to provide an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

HUMAN BODY SYSTEMS**1 Credit/Year****ST2001 (SEM 1) AND ST200B (SEM 2)****Grade: 10-12****Prerequisite: Principles of Biomedical Science**

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Mannequin; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

MEDICAL INTERVENTIONS**1 Credit/Year****ST2003 (SEM 1) AND ST2004 (SEM 2)****Grade: 11, 12****Prerequisite: Principles of Biomedical Science (PBS) and Human Body Systems (HBS)**

In Medical Interventions (MI), students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

BIOMEDICAL INNOVATION- CAPSTONE COURSE FOR BIOMEDICAL- PLTW**1 Credit/Year****ST201A (SEM 1) AND ST201B (SEM 2)****Grade: 12****Prerequisite: Medical Interventions**

In this capstone course, students will design and conduct experiments related to the diagnosis, treatment, and prevention of disease or illness. They will apply their knowledge and skills to answer questions or to solve problems related to the biomedical sciences. They may work with a mentor or advisor from a university, hospital, physician's office, or industry as they complete their work. Students will be expected to present the results of their work to an adult audience, which may include representatives from the local healthcare or business community or the school's biomedical partnership team.

BIOTECHNICAL ENGINEERING- CAPSTONE COURSE FOR BIOCHEMISTRY**1 Credit/Year****ST201A (SEM 1) AND ST201B (SEM 2)****Grade: 12****Prerequisite: Medical Interventions**

Biotechnical Engineering courses enable students to develop and expand their knowledge and skills in biology, physics, technology, and mathematics. Course content may vary widely, drawing upon diverse fields such as biomedical engineering, biomolecular genetics, bioprocess engineering, agricultural biology, or environmental engineering. Students may engage in problems related to biomechanics, cardiovascular engineering, genetic engineering, agricultural biotechnology, tissue engineering, biomedical devices, human interfaces, bioprocesses, forensics, and bioethics.

CAPSTONE: HEALTH AND LIFE SCIENCES**1 credit/Year****Workplace Experience****CS104A (SEM 1) AND CS104B (SEM 2)**

Grade: 12**Prerequisite:** All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

HEALTH, HUMAN PERFORMANCE, and SPORTS RECREATION Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Intro to Recreational Sports (0.5) Nutrition and Wellness (0..5)	Introduction to Officiating (0.5) Care of Athletes (0.5) Business Communications (0.5)	Sports Medicine 1 (1) Sports and Entertainment Marketing (0.5) Anatomy and Physiology (1) <i>Recommend</i>	Capstone Experience (1) Program Design/Sports Operation (1) <i>Optional</i> Sports Medicine 2 (1)

INTRO TO RECREATIONAL SPORTS**0.5 Credit/Semester****HS1001****Grade: 9****Prerequisite:** None

Recreational Sports are a major influence in American society. Recreation Sports courses provide students with knowledge, experience, and skill development in a variety of recreational sports or outdoor pursuits. Students will be introduced to career opportunities within the field of Recreational Sports. Class activities could include outdoor adventure activities, handball, cornhole, Frisbee, disc golf, Pickleball, fishing, and hiking, volleyball, basketball, softball, football, etc. *Students will be expected to observe and assist in two-three local practices outside of classroom time.*

INTRO TO OFFICIATING**0.5 Credit/Semester****HS1005****Grade: 9****Prerequisite:** Introduction to Recreational Sports

Students will learn the rules, verbal calls, and hand gestures to officiate a variety of sports including but not limited to volleyball, basketball, wrestling, softball, soccer, football, and baseball. Students will apply their knowledge by officiating in a variety of game opportunities.

CARE OF ATHLETES**0.5 Credit/Year****HS1007****Grade: 11-12****Prerequisite:** Anatomy & Physiology

Care of Athletes courses provide students with the knowledge and skills to understand and perform therapeutic tasks that would be designated by an athletic or fitness trainer. Topics covered may include taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, and medical terminology. Students may learn to measure cardiorespiratory endurance, muscular strength and endurance, flexibility, body composition, and blood pressure. More advanced topics may include injury assessment, the phases of healing, and the use of exercise and equipment to help in the reconditioning of injured athletes.

SPORTS MEDICINE 1**1 Credit/Semester****HS1004****Grade: 11-12****Prerequisite: Care of Athletes for the Health, Human Performance, and Sports Recreation students**

Sports Medicine I will provide students an overview of the specialized health care needed in the wide world of sports and physical activity. Students will learn what sports medicine is and the multidisciplinary approach to athletic health care. The course will also introduce students to basic body systems in addition to the physical and mental demands of physical activity at all levels. The students will be introduced to such things as kinesiology, bleeding and shock, the bones and soft tissue, the foot, ankle, and lower leg, the knee, the hip and pelvis, the elbow, wrist, and hand, the shoulder, the chest and abdomen, the head and face, the spine, and lastly special considerations in athletes.

SPORTS AND ENTERTAINMENT MARKETING**0.5 Credit/Semester****MK1010****Grade: 11-12****Prerequisite: Business Essentials or Business Communications, Principles of Marketing Recommended**

Sports and Entertainment Marketing courses introduce students to and help them refine marketing and management functions and tasks that can be applied in amateur or professional sports or sporting events, entertainment or entertainment events, and the sales or rental of supplies and equipment.

PROGRAM DESIGN/SPORTS OPERATION**1 Credit/Semester****HS102A (SEM 1) AND HS102B (SEM 2)****Grade: 12****Prerequisite: Sports Medicine**

Recreational Sport League design is an intricately woven tapestry of coach recruitment, facility availability, team creation, and tournament creation. Students will be exposed to the array of factors that go into creating a recreational league. *Students will be expected to assist the Piper Optimist Club in team creation for volleyball, football, cheer, or basketball.*

NUTRITION AND WELLNESS**0.5 Credit/Semester****FC2353****Grade: 9-12****Prerequisite: None**

This course focuses on consumer education topics (such as money management and evaluation of consumer information and advertising) and personal health topics (such as nutrition, stress management, drug/alcohol abuse prevention and disease prevention). Course objectives include helping students develop decision-making, communication, interpersonal, and coping skills and strategies.

SPORTS MEDICINE 2**1 Credit/Semester****HS1006****Grade: 12****Prerequisite: Sports Medicine 1**

Sports Medicine II will provide students a hands-on approach to Athletic Training. Topics to be covered are the central training room, the athletic training student-aid program, emergency preparedness, injury game plan, the pre-participation physical examination, rehabilitation and preseason conditioning, nutrition and the athlete, dietary supplements and performance enhancers, sports psychology, assessment and evaluation of sports injuries, therapeutic physical modalities, and proper taping and wrapping. This course allows students to do a series of clinical internships with medical professionals in the community pertaining to sports medicine. These internships are designed for students who have a serious interest in pursuing a career in the sports medicine field.

CAPSTONE: HEALTH AND LIFE SCIENCES**1 credit/Year****Workplace Experience****CS104A (SEM 1) AND CS104B (SEM 2)****Grade: 12****Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined**

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner

(although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

SPORTS MEDICINE AND EXERCISE SCIENCE Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Intro toHealthcare (0.5) Nutrition and Wellness (0.5)	Anatomy and Physiology (1) Care of Athletes (0.5)	Medical Terminology (0.5) Chemistry (1) Sports Medicine 1 (1)	Capstone Experience (1) Sports Medicine 2 (1)

INTRO TO HEALTHCARE

0.5 Credit/Semester

HS1000

Grade: 9-12

Prerequisite: None

Provides students with the basic knowledge of health/wellness professionals in private business and industry, community organizations, and health care settings. Includes instruction in personal health, community health and welfare, nutrition, epidemiology, disease prevention, fitness and exercise, and health behaviors

NUTRITION AND WELLNESS

0.5 Credit/Semester

FC2353

Grade: 9-12

Prerequisite: None

This course focuses on consumer education topics (such as money management and evaluation of consumer information and advertising) and personal health topics (such as nutrition, stress management, drug/alcohol abuse prevention and disease prevention). Course objectives include helping students develop decision-making, communication, interpersonal, and coping skills and strategies.

ANATOMY AND PHYSIOLOGY

1 Credit/Year

SC304A (SEM 1) AND SC304B (SEM 2)

Grade: 10-12

Prerequisite: Biology 1

During this course, students will learn about the gross structures and functions in the human organism, abnormal pathological conditions that exist in humans, laboratory skills and dissection techniques. Student learning will focus on all body systems: skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, immune, digestive, reproductive etc. **Students should carefully consider the extra time needed for this challenging course.**

CARE OF ATHLETES

0.5 Credit/Year

HS1007

Grade: 11-12

Prerequisite: Anatomy & Physiology

Care of Athletes courses provide students with the knowledge and skills to understand and perform therapeutic tasks that would be designated by an athletic or fitness trainer. Topics covered may include taping and bandaging, proper use of protective padding, treatment modalities, anatomy and physiology, and medical terminology. Students may learn to measure cardiorespiratory endurance, muscular strength and endurance, flexibility, body composition, and blood pressure. More advanced topics may include injury assessment, the phases of healing, and the use of exercise and equipment to help in the reconditioning of injured athletes.

MEDICAL TERMINOLOGY

0.5 Credit/Year

HS1006

Grade: 11-12

Prerequisite: Anatomy & Physiology OR Human Body Systems

In Medical Terminology courses, students learn how to identify medical terms by analyzing their components. These courses emphasize defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.

SPORTS MEDICINE 1

1 Credit/Semester

HS1004

Grade: 11-12

Prerequisite: Anatomy and Physiology for the Sports Medicine and Exercise Science Students

Sports Medicine I will provide students an overview of the specialized health care needed in the wide world of sports and physical activity. Students will learn what sports medicine is and the multidisciplinary approach to athletic health care. The course will also introduce students to basic body systems in addition to the physical and mental demands of physical activity at all levels. The students will be introduced to such things as kinesiology, bleeding and shock, the bones and soft tissue, the foot, ankle, and lower leg, the knee, the hip and pelvis, the elbow, wrist, and hand, the shoulder, the chest and abdomen, the head and face, the spine, and lastly special considerations in athletes.

SPORTS MEDICINE 2

1 Credit/Semester

HS1006

Grade: 12

Prerequisite: Sports Medicine 1

Sports Medicine II will provide students a hands-on approach to Athletic Training. Topics to be covered are the central training room, the athletic training student-aid program, emergency preparedness, injury game plan, the pre-participation physical examination, rehabilitation and preseason conditioning, nutrition and the athlete, dietary supplements and performance enhancers, sports psychology, assessment and evaluation of sports injuries, therapeutic physical modalities, and proper taping and wrapping. This course allows students to do a series of clinical internships with medical professionals in the community pertaining to sports medicine. These internships are designed for students who have a serious interest in pursuing a career in the sports medicine field.

CAPSTONE: HEALTH AND LIFE SCIENCES

1 credit/Year

Workplace Experience

CS104A (SEM 1) AND CS104B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

PUBLIC SERVICES ACADEMY

ALL ACADEMY COURSES				
Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Introduction to Law, Public Safety, Corrections, and Security	0.5	9-12	None	Elective SS elective
Business Essentials	0.5	9-12	None	Elective
Forensic Science	1.0	10-12	Introduction to Law, Public Services, and Security, Biology, and Concurrent Enrollment in Chemistry	Elective Science
Forensic Science 2	1.0	11-12	Forensic Science 2., Chemistry	Elective Science
Business Law	0.5	10-12	Introduction to Law, Public Services, and Security, Business Essentials	Elective
Practical Law	0.5	11-12	Introduction to Law, Public Services, and Security, Business Essentials	Elective
Foundations in Law	1	11-12	Business Law and Practical Law	Elective
AP Government	1	12	None	Elective Social Studies

Public Safety Physical Education	1	11-12	Introduction Emergency Medical Services	Elective
Introduction to Emergency Medical Services	0.5	10-12	Introduction to Law, Public Services, and Security	Elective
Fire Science 1	1.0	11-12	Introduction to Emergency Medical Services	Elective
Human Growth and Development	0.5	9-12	None	Elective
Lifespan Development	0.5	9-12	Human Growth and Development	Elective
Teaching as a Career	0.5	10-12	Human Growth and Development; offered as dual credit through Baker University	Elective
Teaching Observation	0.5	10-12	Human Growth and Development	Elective
Teaching Internship	1	12	Teaching as a Career, offered as dual credit through Baker University and Lifespan Development	Elective
CAPSTONE: Public Services	0.5 or 1	12	All Seniors will enroll in an Academy Capstone Experience course, length of course dependent on grad year	Elective

FORENSIC SCIENCE Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Introduction to Law Public Services and Security (0.5)	Forensic Science 1 (1) Chemistry (1) <i>10th or 11th</i>	Forensic Science 2 (1)	Capstone Experience (1)

INTRODUCTION TO LAW, SAFETY, CORRECTIONS, AND SECURITY

0.5 Credit/Semester

PS1000

Grade: 9

Prerequisite: None

An introductory course designed to provide students with knowledge of occupations available in the Law, Public Safety and Security fields and introduce them to the legal system, professional conduct, safety, and types of crime.

FORENSIC SCIENCE 1

1.0 Credit/Semester

PS1001

Grade: 10-12

Prerequisite: Intro to Law, Public Services, and Security, Biology, Concurrent Enrollment in Chemistry

An application level course that follows a background in biology and chemistry and provides students with a basic knowledge and skills needed to pursue postsecondary training in LPSS careers requiring Forensic Science (ie., Forensic Anthropology, Forensic Medicine, Medical Examiner).

FORENSIC SCIENCE 2

1 Credit/Semester

PS1002

Grade: 11-12

Prerequisite: Forensic Science 1, Chemistry

An application level course that expands upon skills learned in the technical level course and provides students with knowledge and skills needed to pursue postsecondary training in LPSS careers requiring Forensic Science (i.e., Forensic Anthropology, Forensic Medicine, Medical Examiner). **Students who completed Forensic Science 1 (0.5 credit) during 2022-2023 meet the forensic science prerequisite requirement for this course.*

CAPSTONE: PUBLIC SERVICES

1 credit/Year

Workplace Experience

CS105A (SEM 1) AND CS105B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world

learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

LAW AND PUBLIC SERVICES Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Law			
	Introduction to Law Public Safety, Corrections, and Security (0.5) Business Essentials (0.5)	Business Law (0.5) Practical Law (0.5)	Foundations in Law (1)	AP Government (1) Capstone Experience (1)
	Fire/EMS			
	Introduction to Law Public Safety, Corrections, and Security (0.5)	Anatomy & Physiology (1) Introduction to Medical Services (0.5)	Public Safety Physical Education (1) Fire Science 1 (1)	Capstone Experience (1) Optional KCKCC Fire Science
	Police			
	Introduction to Law Public Safety, Corrections, and Security (0.5)	Introduction to Medical Services (0.5)	Public Safety Physical Education (1)	Capstone Experience (1) KCKPD 911 Intake Call Internship KCKPD Correctional Cadet Internship KCKPD Summer Cadet Program

INTRODUCTION TO LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

0.5 Credit/Semester

PS1000

Grade: 9

Prerequisite: None

An introductory course designed to provide students with knowledge of occupations available in the Law, Public Safety and Security fields and introduce them to the legal system, professional conduct, safety, and types of crime.

BUSINESS ESSENTIALS

0.5 Credit/Semester

BU1210

Grade: 9-12

Prerequisite: None

During this course, students will gain an overview of occupations in business, marketing and finance. The course includes the study of types of business ownership, principles of business management and analysis of business practices to determine ethical and social responsibility.

PUBLIC SAFETY PHYSICAL EDUCATION

1 Credit/Year

PS100A (SEM 1) and PS100B (SEM 2)

Grade: 11-12

Prerequisite: Introduction of Emergency Medical Services

A technical level course designed to assist students enrolled in a LPSS Pathway maintain a healthy lifestyle and prepare to take the CPAT Certification Test

BUSINESS LAW

0.5 Credit/Semester

PS1003

Grade: 10-12

Prerequisite: Introduction to Law, Public Services, and Security

Business Law courses emphasize legal concepts that are relevant to business and business organizations. Topics examined in these courses typically include contracts, buying/renting property, installment buying, insurance, buyer/seller relationships, negotiable instruments, employment, taxes, insurance, commercial papers, legal organizational structures, and consumer liabilities.

PRACTICAL LAW

0.5 Credit/Semester

PS1004

Grade: 10-12

Prerequisite: Introduction to Law, Public Services, and Security

This course will study the basic legal principles common to a broad base of everyday business activities and will provide practical law information necessary to develop problem-solving skills in our legal society. Topics include, but are not limited to, criminal law, juvenile law, torts, family law, discrimination, writing a brief and employee rights.

FOUNDATIONS IN LAW

1 Credit/Year

PS101A (Sem 1) and PS101B (Sem 2)

Grade: 11-12

Prerequisite: Business Law and Practical Law

This course helps students understand why we live under the rule of law, and how laws are created, enforced, interpreted, and changed. The course enables students to examine diverse areas of law, including criminal, civil, constitutional, and international. It also explores civil rights issues and the role of advocacy, civics, and the media in our legal system.

INTRODUCTION TO EMERGENCY MEDICAL SERVICES

0.5 Credit/Semester

PS1005

Grade: 10-12

Prerequisite: Intro to Law, Public Services, and Security

An introductory level course designed to provide students with knowledge of the history of modern emergency medical services in the United States and how those services have progressed and changed over time.

ANATOMY AND PHYSIOLOGY

1 Credit/Year

SC304A (SEM 1) AND SC304B (SEM 2)

Grade: 10-12

Prerequisite: Biology 1

During this course, students will learn about the gross structures and functions in the human organism, abnormal pathological conditions that exist in humans, laboratory skills and dissection techniques. Student learning will focus on all body systems: skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, immune, digestive, reproductive etc. **Students should carefully consider the extra time needed for this challenging course.**

CAPSTONE: PUBLIC SERVICES

1 credit/Year

Workplace Experience

CS105A (SEM 1) AND CS105B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

TEACHING AND TRAINING Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
ACADEMY PREP Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Human Growth and Development (0.5)	Teaching Observation (0.5) LifeSpan Development (0.5)	Teaching as a Career (1)	Capstone Experience (1) Teaching Internship (1)

HUMAN GROWTH & DEVELOPMENT

0.5 Credit/Semester

FC4504

Grade: 9-12

Prerequisite: None

Human Growth and Development A provides students with knowledge about the physical, mental, emotional, and social growth and development of humans from conception to old age, **with a special emphasis on birth through school age**. Course content will provide an overview of life stages, with a strong tie to prenatal and birth processes; fundamentals of children's emotional and physical development; and the appropriate care of children.

LIFESPAN DEVELOPMENT

0.5 Credit/Semester

FC2257

Grade: 9-12

COURSE CODE: FC2257

Prerequisite: Human Growth and Development

umLifespan Development prepares students for occupations associated with meeting the needs of people by learning about physical, intellectual, emotional and social development from childhood to death. In addition, this course helps students discover how individuals respond to the various stages of the lifespan with a strong tie to teen years, adulthood and later years.

TEACHING OBSERVATION

0.5 credit/Year

COURSE CODE: ED101A AND SEM 2: ED101B

Grade: 11,12

Prerequisite: Human Growth and Development

While participating in a teaching observation class, students will increase their understanding of the requirements of the teaching profession through observations and study of best practices in multiple settings. Observation analysis will be focused around the elements of effective instruction – planning and preparation, the learning environment, instructional strategies, and teacher/trainer professional responsibilities

TEACHING AS A CAREER

1 Credit/Semester

COURSE CODE: ED100

Grade: 10-12

Prerequisite: Teaching Observation and Lifespan Development

Teaching Profession courses introduce students to the principles underlying teaching and learning, the responsibilities and duties of teachers, and the techniques of imparting knowledge and information. These courses typically expose students to and train them in classroom management, student behavior, leadership and human relations skills, assessment of student progress, teaching strategies, and various career opportunities in the field of education. *This course is offered as dual credit via Baker University and costs \$113 per credit hour.*

TEACHING INTERNSHIP

1 credit/Year

COURSE CODE: ED103A AND SEM 2: ED103B

Grade: 11, 12

Prerequisite: Teaching Observation

The teaching internship course prepares students to teach and guide others. This course typically provides opportunities for students to develop their own teaching objectives, design lesson plans, and experience teaching in a controlled environment. Students examine and practice teaching strategies, learning styles, time

management and planning strategies, presentation and questioning skills, classroom management, and evaluation techniques. *This course is offered as dual credit via Baker University and costs \$113 per credit hour.*

CAPSTONE: PUBLIC SERVICES

1 credit/Year

Workplace Experience

CS105A (SEM 1) AND CS105B (SEM 2)

Grade: 12

Prerequisite: All courses within sector, at least 1.0 credit of Technical & Application courses combined

An advanced topics, research, and application course covering specific topics in your Academy and Sector. Opportunities for Work-Based Learning (WBL) such as in-house client-connected projects, entrepreneurial experiences, internships or technical school will be available. This course places an emphasis on real-world learning and workplace experiences; goals are set cooperatively by the student, teacher, and a business partner (although students are not necessarily paid). These courses will also include classroom activities for the required Capstone Project for graduation.

MISCELLANEOUS COURSE OFFERINGS

Course Name	Credit	Grade(s)	Prerequisite
College Release	0	9- 12	Accuplacer or ACT score requirement to enroll, provide proof of enrollment, approval- does not count as dual credit
Teacher/Office/Library Aide	0.25	11-12	Instructor permission, Teacher Aide Application *spring only for Juniors
Senior Release	0	12	Application with parent/guardian approval

COLLEGE RELEASE

0 Credits/Semester or Year

Grade: 12

Prerequisite: Accuplacer or ACT score requirement to enroll and provide proof of enrollment

During this course, students in good standing may opt to take classes at the local community college. Proof of continuous enrollment must be provided. A maximum of two blocks may be requested. These courses do not count towards dual credit; meaning, high school credit cannot be achieved through College Release.

TEACHER/OFFICE/LIBRARY AIDE

0.25 Credits/Semester

Grade: 11-12

Prerequisite: Instructor permission and application

During this course, students will apprentice with a teacher or office staff member in order to develop career skills, communication and interpersonal skills, and problem solving. This is an application only course and not all students requesting this course will be placed due to limited availability. A student cannot be enrolled in Teacher's Aide and Senior Release in the same semester.

SENIOR RELEASE

0 Credit/Semester

Grade: 12

Prerequisite: Fill out application and turn in during enrollment process in junior year

- Students will only be allowed to sign up for Senior Release for the spring semester; max of 5 senior releases.
- Only students who are in good standing for graduation may opt for senior release. Students who are failing required courses for graduation may lose their senior release at any time in order to have more structured time for course work required.
- Students must complete an application, meet with their counselor for enrollment and have the application signed and verified by a parent.
- Students who participate in senior release must abide by the criteria on the application
- Students can only have a maximum of 3 Senior Release blocks if they are in a KSHSAA sanctioned activity due to eligibility rules