

# PIPER HIGH SCHOOL

**COURSE GUIDE 2025-26**

**Course Guide Cover Designed by Ciara Cole  
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THE ACADEMY OF

# DESIGN, PRODUCTION & AVIATION



Are you curious about Aviation? Do you have an interest in connecting new information technology to advanced machinery? Do you enjoy working with your hands, building and fixing things? Do you enjoy architecture and drawing? Are you interested in studying science, drafting, Robotics, aeronautics, woodworking, or math? In the Design, Production, and Aviation Academy, students 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 geotechnical 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.



# THE ACADEMY OF DESIGN, PRODUCTION & AVIATION

## Architecture, Design and Construction Sector

### ARCHITECTURE AND CONSTRUCTION SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	<b>Architecture and Design</b>			
<b>Academy Prep:</b> Career and Life Planning	Drafting/Print Reading (0.5)	Drafting/Architecture I (1) Drafting/CAD (1)	Architectural Design I (0.5) and Architectural Design II (0.5)  <b>Optional</b> KCKCC TEC programs	Drafting/Architecture II (0.5) Capstone Experience (1.0)  <b>Optional</b> KCKCC TEC programs
	<b>Construction</b>			
<b>MS STEM Courses</b> Gaming Artificial Intelligence Design and Modeling Automation and Robotics Flight and Space Computer Science for Innovators and Makers	Introduction to Skilled Trades (0.5)	Geometry in Construction (2)	Woodworking Principles (1)  <b>Optional</b> KCKCC TEC programs	Advanced Materials and Fabrication (1) Capstone Experience (1.0)  <b>Optional</b> KCKCC TEC programs
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Elective (3)  <small>* required for 2026, 2027 and 2028 only</small>	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  <small>*required for Grad Class of 2026 and beyond</small>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

#### Academy Electives

Drawing by Designers (0.5)  
Art 1 (0.5)  
Drawing (0.5)  
Drafting/Print Reading (0.5)  
Drafting/CAD (1)  
Essentials of Fashion and Interior Design (0.5)  
Interior Design (0.5)  
Architecture Design I (0.5)  
Architectural Design II (0.5)  
Hand and Power Tools (0.5)  
Intro to Engineering (1)  
Principles of Engineering (1)  
Computer Integrated Manufacturing (1)  
Robotics (1)  
Stagecraft(0.5)  
Technical Production (0.5)  
World Languages (1)

#### Required Electives for Graduation

Financial Literacy (0.5)  
Fine Arts (1)  
Oral Communications (0.5)  
(Oral Comm, College Public Speaking, Business Comm, Journalism & Media Communications, Debate, or Forensics)

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

### ARCHITECTURE, DESIGN AND CONSTRUCTION #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers	
<ul style="list-style-type: none"> <li>Robotics</li> <li>KU Engineering Competition</li> <li>Making it in the Dotte Manufacturing Bus Tour</li> </ul>	<ul style="list-style-type: none"> <li>OSHA Certification</li> <li>KCKCC Technical Education Programs-refer to course guide for offerings</li> <li>Client-Connected Projects and Internships</li> </ul>	<ul style="list-style-type: none"> <li>Construction Science Architecture</li> <li>Landscape Architecture</li> <li>Regional and Community Planning</li> <li>Interior Architecture and Production Design</li> <li>Environmental and Community Development</li> </ul>	<ul style="list-style-type: none"> <li>Construction Worker</li> <li>Architectural Designer</li> <li>Landscape Architect</li> <li>Architectural Consultant Designer</li> <li>Community Planner</li> </ul>	<ul style="list-style-type: none"> <li>Carpenter</li> <li>Drafter</li> <li>Urban Planner</li> <li>HVAC</li> <li>Sheet Metal Worker</li> <li>Zoning and Planning Manager</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF DESIGN, PRODUCTION & AVIATION

## Engineering Sector

### ENGINEERING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>Academy Prep: Career and Life Planning</b>	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	Introduction to Engineering (1)	Principles of Engineering (1)	Computer Integrated Manufacturing (1)	Engineering Design and Development (1)
<b>MS STEM Courses</b>			<b>Recommended Physics (1)</b>	Capstone Experience (1)
Gaming	<b>Required Core and Elective Courses</b>			
Artificial Intelligence	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5) <small>* required for 2026, 2027 and 2028 only</small>	English (1) Math (1) Science (1) World History (1) Academy Elective (1) Elective (2)  <small>*Geometry in Construction recommended for Geometry credit</small>	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  <small>*required for Grad Class of 2026 and beyond</small>
Design and Modeling	<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>			
Automation and Robotics				
Flight and Space				
Computer Science for Innovators and Makers				

#### Recommended Academy Electives

*Aerospace Engineering (1)*  
*Drawing by Designers (0.5)*  
*Intro to Skilled Trades (0.5)*  
*Drafting/Print Reading (0.5)*  
*Drafting/CAD (1)*  
*Aviation Fundamentals (0.5)*  
*Computer Systems (1)*  
*Architectural Design I (1)*  
*Architectural Design II (1)*  
*Robotics (1)*  
*Stagecraft (0.5)*  
*Technical Production (0.5)*  
*World Languages (1)*

#### Required Electives for Graduation

Financial Literacy (0.5)  
 Fine Arts (1)  
 Oral Communications (0.5)  
 (Oral Comm, College Public Speaking, Business Comm, Journalism & Media 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"> <li>Robotics</li> <li>Making it in the Dotte Manufacturing Bus Tour</li> <li>KU Engineering Scholarship Competition</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Design and Development Capstone Project</li> <li>Client-Connected Projects and Internships</li> <li>Cerner Scholars Internship</li> <li>USD 203 IT Internship</li> </ul>	<ul style="list-style-type: none"> <li>Civil Engineering</li> <li>Chemical Engineering</li> <li>Electrical Engineering</li> <li>Industrial Engineering</li> <li>Biomedical Engineering</li> <li>Computer Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Software Engineer</li> <li>Agricultural Engineer</li> <li>Biomedical Engineer</li> <li>Electrical Engineer</li> <li>Petroleum Engineer</li> <li>Mechanical Engineer</li> <li>Marine Engineer</li> <li>Geological Engineer</li> <li>Environmental Engineer</li> <li>Design Engineer</li> <li>Data Engineer</li> <li>Automotive Engineer</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF DESIGN, PRODUCTION & AVIATION

## Manufacturing Sector

### MANUFACTURING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	<b>Maintenance</b>			
<b>Academy Prep:</b> Career and Life Planning  <b>MS STEM Courses</b> Gaming Artificial Intelligence Design and Modeling Automation and Robotics Flight and Space Computer Science for Innovators and Makers	<i>Introduction to Skilled Trades (0.5)</i>	<i>Hand and Power Tools (0.5)</i>  <b>Recommended</b> <i>Geometry in Construction as the math credit</i>	<b>KCKCC Electrical Engineering Technology Program</b>  Foundations of Electronics Digital Electronics	<b>KCKCC Electrical Engineering Technology Program:</b> A/C Electronics D/C Electronics  Capstone Experience (1)  <b>Optional</b> Garmin Internship if in Electrical Engineering Technology
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective (2) *required for 2026, 2027 and 2028 only	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  *required for Grad Class of 2026 and beyond
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

#### Recommended Academy Electives

*Drawing by Designers (0.5)*  
*Drafting/Print Reading (0.5)*  
*Computer Systems (1)*  
*Architectural Design I (1.0)*  
*Architectural Design II (1.0)*  
*Robotics (1)*  
*Intro to Engineering (1)*  
*Principles of Engineering (1)*  
*Computer Integrated Manufacturing (1)*  
*Engineering Design and Development (1)*  
*Stagecraft (0.5)*  
*Technical Production (0.5)*

#### Required Electives for Graduation

Financial Literacy (0.5)  
 Fine Arts (1)  
 Oral Communications (0.5)  
 (Oral Comm, College Public Speaking, Business Comm, Journalism & Media 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"> <li>Robotics</li> <li>KU Engineering Competition</li> <li>Making it in the Dotte Manufacturing Bus Tour</li> </ul>	<ul style="list-style-type: none"> <li>OSHA Certification</li> <li>Client-connected projects and Internships</li> <li>Garmin Internship</li> <li>KCKCC Technical Education Program</li> <li>Seal of Bilinguality</li> </ul>	<ul style="list-style-type: none"> <li>Operations Research</li> <li>Industrial Engineering</li> <li>Construction</li> <li>Manufacturing</li> <li>Welding</li> <li>Tooling Technology</li> </ul>	<ul style="list-style-type: none"> <li>Assembler</li> <li>Woodworker</li> <li>Carpenter</li> <li>Warehouse Worker</li> <li>Welder</li> <li>Manufacturing Technician</li> <li>Quality Control Inspector</li> <li>Mechanical Engineer</li> </ul>	<ul style="list-style-type: none"> <li>Assembly Supervisor</li> <li>Distribution Manager</li> <li>Plant Manager</li> <li>Operations Manager</li> <li>Electrician</li> </ul>



# #FUTUREREADY



# 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
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	<b>Aeronautical Engineering</b>			
<b>Academy Prep: Career and Life Planning</b>	Introduction to Engineering (1) Aviation Fundamentals (.5)	Principles of Engineering (1)	Aerospace Engineering (1)  Computer Integrated Manufacturing (1)  <b>Recommended Physics (1)</b>	Engineering Design and Development (1)  Capstone Experience (1)
	<b>Avionics</b>			
<b>MS STEM Courses</b>				
Gaming Artificial Intelligence Design and Modeling Automation and Robotics Flight and Space Computer Science for Innovators and Makers	Introduction to Skilled Trades (0.5)	Aviation Fundamentals (.5) Hand and Power Tools (0.5)  <b>Recommended</b> Geometry in Construction as the math credit	<b>KCKCC Electrical Engineering Technology Program:</b> Foundations of Electronics Digital Electronics	<b>KCKCC Electrical Engineering Technology Program:</b> A/C Electronics D/C Electronics  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective (0.5) <small>* required for 2026, 2027 and 2028 only</small>	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  <small>*required for Grad Class of 2026 and beyond</small>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

#### Recommended Academy Electives

Intro to Drawing and Design (0.5)  
Computing Systems (1)  
Robotics (1)  
Introduction to Skilled Trades (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

Financial Literacy (0.5)  
Fine Arts (1)  
Oral Communications (0.5)  
(Oral Comm, College Public Speaking, Business Comm, Journalism & Media 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"> <li>Robotics</li> </ul>	<ul style="list-style-type: none"> <li>Red Tail Academy</li> <li>OSHA Certification</li> <li>Garmin Internship</li> <li>KCKCC Cert A : College Algebra or AP Stats Exam with a 3 or above to gain this Cert</li> </ul>	<ul style="list-style-type: none"> <li>Aviation Design</li> <li>Flight Engineering</li> <li>Electronics Technician</li> </ul>	<ul style="list-style-type: none"> <li>Pilot</li> <li>Unmanned Aircraft Pilot</li> <li>Aerospace Engineer</li> <li>Avionics Technician</li> <li>Flight Attendant</li> </ul>	<ul style="list-style-type: none"> <li>Electronics Technician</li> <li>Air Traffic Control</li> </ul>



# #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.

## **BUSINESS 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..

## **MARKETING AND SPORTS 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
<b>REQUIRED Academy Prep: Career &amp; Life Planning</b>	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	Business Essentials (0.5) *Business Communications (0.5) - 9th or 10th	Accounting (1) *Business Communications (0.5) - 9th or 10th	Advanced Accounting (1) Financial Literacy (0.5)	Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Elective <small>* required for 2026, 2027 and 2028 only</small>	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 <small>*Required for Grad Class of 2026 and beyond</small>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section</u> of the Course Guide</small>				

#### 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

- Financial Literacy (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
- Oral Communications (0.5)  
\*Business Communications covers this requirement and is also required for Academy completion
- \*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"> <li>• DECA</li> <li>• Pirate's Bay Cafe</li> <li>• SHIP Week</li> </ul>	<ul style="list-style-type: none"> <li>• QuickBooks Certification</li> <li>• NFM Client-Connected Project</li> <li>• Dual Credit</li> </ul>	<ul style="list-style-type: none"> <li>• Finance</li> <li>• Economics</li> <li>• Business</li> <li>• Accounting</li> <li>• Business Admin and Management</li> <li>• Insurance</li> <li>• Actuary Science</li> <li>• Statistics</li> </ul>	<ul style="list-style-type: none"> <li>• Financial Analyst</li> <li>• Investment Banking</li> <li>• Banker</li> <li>• Accountant</li> <li>• Actuary</li> <li>• Financial Director</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF BUSINESS, ENTREPRENEURSHIP & INNOVATION

## Business Management Sector

### BUSINESS MANAGEMENT SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
<b>REQUIRED Academy Prep: Career &amp; Life Planning</b>	<b>Business Management</b>			
	Business Essentials (0.5) Business Management (0.5) *Business Communications (0.5) - 9th or 10th	Entrepreneurship (0.5) *Business Communications (0.5) 9th or 10th	Applied Business Development (1) <i>Pirate's Bay Cafe</i> Financial Literacy (0.5)	Advanced Business Management and Entrepreneurship (1) <i>Pirate's Bay Cafe</i> Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	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>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section</u> of the Course Guide</small>				

#### Academy Electives

- \*Intro to Business and Entrepreneurship (0.5)
- \*Microeconomics (0.5)
- Accounting (1)
- Advanced Accounting (1)
- Economics (0.5)
- Event Planning and Management (0.5)
- Principles of Marketing (1)
- Marketing Applications (1)
- Area of Business Concentration
- World Languages (1)
- \*Dual credit via Baker University

#### Required Electives for Graduation

- Financial Literacy (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*
- Oral Communications (0.5)  
*\*Business Communications covers this requirement and is also required for Academy completion*
- \*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section*

### HUMAN RESOURCES AND SPORTS MANAGEMENT #FUTUREREADY EXPERIENCES

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



# #FUTUREREADY



# THE ACADEMY OF BUSINESS, ENTREPRENEURSHIP & INNOVATION

## Entrepreneurship Sector

### ENTREPRENEURSHIP SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>REQUIRED</b> <b>Academy Prep: Career &amp; Life Planning</b>	<b>Introductory Academy Course</b>  Business Essentials (0.5) Business Management (0.5)  *Business Communications (0.5) - 9th or 10th	<b>Technical Academy Course</b>  Entrepreneurship (0.5) Principles of Marketing (1)  *Business Communications (0.5) 9th or 10th	<b>Application Academy Course</b>  Applied Business Development (1) <i>INCubator</i>	<b>Capstone Experience</b>  Advanced Business Management and Entrepreneurship (1) <i>ACCEerator</i>  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Elective *required for 2026, 2027 and 2028 only	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 *Required for Grad Class of 2026 and beyond
	<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>			

### Recommended Academy Electives

- \*Intro to Business and Entrepreneurship (0.5)
- \*Microeconomics (0.5)
- Accounting (1)*
- Advanced Accounting (1)*
- Economics (0.5)
- Marketing Applications (1)*
- World Languages (1)
- \*Dual credit via Baker University

### Required Electives for Graduation

- Financial Literacy (0.5)
- Fine Arts (1)
- \*recommended to take *Business in Music* for 0.5 of your required Fine Arts credit
- Oral Communications (0.5)
- \*Business Communications covers this requirement and is also required for Academy completion
- \*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"> <li>• DECA</li> <li>• SHIP Week</li> <li>• INCubator– creating a nd pitching a new product and/or business idea</li> <li>• ACCEerator– taking the business from INCubator to the next level and launching with the support of industry partners</li> </ul>	<ul style="list-style-type: none"> <li>• NFM Client-Connected Project</li> <li>• Dual Credit</li> <li>• Social Media Certification</li> </ul>	<ul style="list-style-type: none"> <li>• Business Admin and Management (General)</li> <li>• Marketing</li> <li>• Economics</li> <li>• Statistics</li> <li>• Data Analytics</li> <li>• Organizational Leadership</li> </ul>	<ul style="list-style-type: none"> <li>• Business Analyst</li> <li>• Manager/Executive</li> <li>• Entrepreneur</li> <li>• Consultant</li> <li>• Project Manager</li> <li>• Sales/Marketing Director</li> <li>• Venture Capital Analyst</li> <li>• Human Resources Coordinator</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF BUSINESS, ENTREPRENEURSHIP & INNOVATION

## Marketing and Sports Marketing Sector

### MARKETING AND SPORTS MARKETING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>ACADEMY PREP</b> Career & Life Planning	<b>Introductory Academy Course</b>  Business Essentials (0.5)  Business Communications (0.5)	<b>Technical Academy Course</b>  Principles of Marketing (1)  Sports and Entertainment Marketing (0.5)	<b>Application Academy Course</b>  Marketing Applications (1)	<b>Capstone Experience</b>  Advanced Marketing- Content Creation for Daktronics Team (1)  Integrated Marketing Applications- Daktronics Board Team (1)  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	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
	<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>			

#### Recommended Academy Electives

- \*Intro to Business and Entrepreneurship (0.5)
- \*Microeconomics (0.5)
- Accounting (1)
- Advanced Accounting (1)
- Graphic Design (1)
- Economics (0.5)
- 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

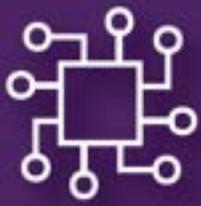
\*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

### SALES AND MARKETING #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> <li>• DECA</li> <li>• SHIP Week</li> <li>• Daktronics Team-Content Creation or Board Controls</li> </ul>	<ul style="list-style-type: none"> <li>• NFM Client-Connected Project</li> <li>• USD 203 Marketing Needs</li> <li>• Dual Credit</li> </ul>	<ul style="list-style-type: none"> <li>• Advertising</li> <li>• Marketing Research</li> <li>• Public Relations</li> <li>• Sales Management</li> <li>• Business Marketing</li> <li>• Business Administration</li> </ul>	<ul style="list-style-type: none"> <li>• Market Research Analyst</li> <li>• Search Engine Optimization (SEO)</li> <li>• Pay-Per-Click Advertising (PPC)</li> <li>• Digital Marketing Analyst</li> <li>• Content Writing</li> <li>• Graphic Design</li> <li>• Social Media Marketing Manager</li> <li>• Product Marketing Manager</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF ARTS & MEDIA



Are you creative? Do you love designing content for social media platforms? Are you interested in animation and gaming? Do you love photography? Do you love painting, sculpting, or drawing? 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 to effectively communicate a message. Through this sector, students will also participate in the student-led t-shirt design and production business.

### ANIMATION AND GAMING

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



# THE ACADEMY OF ARTS & MEDIA

## Performing Arts Sector

### PERFORMING ARTS SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
<b>REQUIRED Academy Prep:</b> Career & Life Planning  <b>MS Course Recommendations</b> Drama Speech Vocal Music Band Music and Media	<b>Vocal</b>			
	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)
	<b>Instrumental</b>			
	Marching Band and/or Jazz Band (1)	Marching Band and/or Jazz Band (1)  Business in Music (0.5)	Music Theory A (1)  Marching Band and/or Jazz Band (1)	Music Theory B (1)  Marching Band and/or Jazz Band (1)  Capstone Experience (1)
	<b>Performing</b>			
	Theatre 1 and/or Debate 1 Forensics 1	Repertory Theater and/or Debate 2 Forensics 2  Business Music (0.5)	Repertory Theater and/or Debate 3 Forensics 3  Tech Production (0.5) Stagecraft (0.5)	Repertory Theater and/or Debate 4 and/or Forensics 4  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Elective <small>*required for 2026, 2027 and 2028 only</small>	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) <small>*required for Grad Class of 2026 and beyond</small>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

#### 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

Financial Literacy (0.5)  
Fine Arts (1)  
Oral Communications (0.5) (Oral Comm, College Public Speaking, Business Comm, Journalism & Media Communications, 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"> <li>School Musical</li> <li>School Play</li> <li>Tri-M Honors Society</li> <li>Debate Team</li> <li>Forensics Team</li> </ul>	<ul style="list-style-type: none"> <li>Music Theory B</li> <li>USD 203 Teaching Internship</li> <li>Backstage Intensive with Kauffman Center for the Performing Arts</li> <li>Capstone Experience; Internship or CCP</li> </ul>	<ul style="list-style-type: none"> <li>Film Production</li> <li>Dance</li> <li>Music</li> <li>Musical Theatre</li> <li>English</li> <li>Design and Stagecraft</li> <li>Music Business</li> <li>Music Education</li> <li>Music Performance</li> </ul>	<ul style="list-style-type: none"> <li>Actor</li> <li>Dancer</li> <li>Theatre Director</li> <li>Arts Administrator</li> <li>Musical Theatre Performer</li> <li>Stage Manager</li> <li>Screenwriter</li> <li>Drama Therapist</li> <li>Musician</li> <li>Music Therapist</li> <li>Sound Technician</li> <li>Music Producer</li> <li>Music Director</li> <li>Conductor</li> <li>Music Teacher</li> <li>Instrumental or Vocal Coach</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF ARTS & MEDIA

## Visual Arts Sector

### VISUAL ARTS SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>REQUIRED</b> <b>Academy Prep: Career &amp; Life Planning</b>  <b>MS Course Recommendations</b> Art Dimensions Art Concepts Sculpture	<b>Introductory Academy Course</b>  <i>Drawing by Designer (0.5)</i>  Art 1 (0.5)	<b>Technical Academy Course</b>  Drawing (0.5)  Art 2 (0.5)	<b>Application Academy Course</b>  Ceramics and Sculpture (0.5)  and/or  Painting (0.5)	<b>Capstone Experience</b>  Capstone Experience (1)  Ceramics and Sculpture 2 (0.5)  Studio Studies (1)
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Elective (2.5)  <small>* required for 2026, 2027 and 2028 only</small>	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) <small>*required for Grad Class of 2026 and beyond</small>
	<b>Required Core and Elective Courses</b>			
	<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>			

Academy Electives	Required Electives for Graduation
<i>Essentials of Fashion and Interior Design (0.5)</i> <i>Interior Design (0.5)</i> <i>Architectural Design 1 and 2(0.5)</i> <i>Apparel Production 1 (0.5)</i> <i>Apparel Production 2 (0.5)</i> <i>FAID Studio (1.0)</i> <i>3D Animation (0.5)</i> <i>Applied Game Design (0.5)</i> <i>Intro to Web and Digital Media (0.5)</i> <i>Graphic Design 1 (1)</i> <i>Graphic Design 2 (1)</i> <i>Applied Graphic Design (1)</i> <i>Audio/Video Production1 (1)</i> <i>Principles of Marketing (1)</i> <i>Marketing Applications (1)</i> <i>World Languages (1)</i>	Financial Literacy (0.5) Fine Arts (1) Oral Communications (0.5)  <small>(Oral Comm, College Public Speaking, Business Comm, Journalism &amp; Media Communications, Debate, or Forensics)</small>  <small>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</small>

### VISUAL ARTS #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> <li>Yearbook Photographer</li> <li>Piper Graphics team</li> <li>Yearbook team</li> <li>Daktronics team</li> </ul>	<ul style="list-style-type: none"> <li>District Client-Connected Art projects</li> <li>USD 203 Teaching Internship</li> <li>Adobe Certification</li> </ul>	<ul style="list-style-type: none"> <li>Art History</li> <li>Arts Management</li> <li>Commercial Art</li> <li>Applied Art</li> <li>Criticism and Conservation</li> <li>Art Education</li> </ul>	<ul style="list-style-type: none"> <li>Graphic Designer</li> <li>Photographer</li> <li>Interior Designer</li> <li>Fashion Designer</li> <li>Set Designer</li> <li>Sculptor</li> <li>Arts Administrator</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF ARTS & MEDIA

## Digital Media Sector

### DIGITAL MEDIA SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
<b>REQUIRED Academy Prep:</b> <i>Career &amp; Life Planning</i>  <b>MS Course Recommendations</b> Art Dimensions Art Concepts Journalism Speech Broadcasting Computer Science	<b>Student News: Yearbook</b>			
	Intro to Web and Digital Media (0.5) Drawing by Designer (0.5)	Journalism and Media Communications (0.5) Photo Imaging (0.5)	Media Design and Production (Yearbook 1) (1)	Advanced Media Design and Production (Yearbook 2) (1) Capstone Experience (1)
	<b>Broadcasting</b>			
	Intro to Web and Digital Media (0.5) Drawing by Designer (0.5)	Journalism and Media Communications (0.5)	Audio/Video Production I (1)	Audio/Video Production II (1) Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Elective <small>* required for 2026, 2027 and 2028 only</small>	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) <small>*Required for Grad Class of 2026 and beyond</small>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

#### Academy Electives

Graphic Design 1 (1)  
 Graphic Design II - Piper Graphics- (1)  
 Applied Graphic Design-Piper Graphics 2- (1)  
 Principles of Marketing (1)  
 Marketing Applications (1)  
 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)  
 Oral Communications (0.5)  
 (Oral Comm, College Public Speaking, Business Comm. Journalism & Media 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"> <li>Yearbook Photographer</li> <li>Piper Graphics team</li> <li>Yearbook team</li> <li>Daktronics team</li> </ul>	<ul style="list-style-type: none"> <li>Capstone Experience: Internship or Client-Connected Project</li> </ul>	<ul style="list-style-type: none"> <li>Photography</li> <li>Multimedia Art</li> <li>Film and Production</li> <li>Marketing</li> <li>Journalism</li> </ul>	<ul style="list-style-type: none"> <li>Social Media Manager</li> <li>Visual Journalist</li> <li>Advertising Professional</li> <li>Marketing Specialist</li> <li>Videographer</li> <li>Book/Publications Editor</li> <li>Graphic Designer</li> <li>Broadcaster</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF ARTS & MEDIA

## Graphic Design Sector

### GRAPHIC DESIGN SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>REQUIRED</b> <b>Academy Prep:</b> Career & Life Planning  <b>MS Course Recommendations</b> Art Dimensions Art Concepts Journalism Speech Broadcasting Computer Science	<b>Introductory Academy Course</b>  Intro to Web and Digital Media (0.5)  Drawing by Designer (0.5)	<b>Technical Academy Course</b>  Graphic Design 1 (0.5)	<b>Application Academy Course</b>  Graphic Design II Piper Graphics (1)	<b>Capstone Experience</b>  Applied Graphic Design Piper Graphics(1)  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) CORE (0.5) *2026 & 2027 only 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 <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide			

Academy Electives	Required Electives for Graduation
Photo Imaging (0.5) Art 1 (0.5) Art 2 (0.5) Drawing (0.5) Audio/Video Production 1 (1) Audio/Video Production 2 (1) Video Production (1) Business Essentials (0.5) Entrepreneurship (0.5) Applied Business Development (1) Principles of Marketing (1) Marketing Applications (1) World Languages (1)	Financial Literacy (0.5) Fine Arts (1) Oral Communications (0.5)  (Oral Comm, College Public Speaking, Business Comm. Journalism & Media Communications, Debate, or Forensics)  *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"> <li>Yearbook Photographer</li> <li>Piper Graphics team</li> <li>Yearbook team</li> <li>Daktronics team</li> </ul>	<ul style="list-style-type: none"> <li>Capstone Experience: Internship or Client-Connected Project</li> <li>Adobe Certification</li> </ul>	<ul style="list-style-type: none"> <li>Art History</li> <li>Arts Management</li> <li>Commercial Art</li> <li>Applied Art</li> <li>Criticism and Conservation</li> <li>Graphic Design</li> </ul>	<ul style="list-style-type: none"> <li>Graphic Designer</li> <li>Photographer</li> <li>Interior Designer</li> <li>Fashion Designer</li> <li>Set Designer</li> <li>Advertising Professional</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF ARTS & MEDIA

## Animation and Gaming Sector

### ANIMATION AND GAMING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>REQUIRED Academy Prep:</b> <i>Career &amp; Life Planning</i>  <b>MS Course Recommendations</b> Art Dimensions Art Concepts Journalism Speech Broadcasting Computer Science	<b>Introductory Academy Course</b>  Intro to Web and Digital Media (0.5)	<b>Technical Academy Course</b>  Drawing by Designer (0.5)	<b>Application Academy Course</b>  3D Animation (1)	<b>Capstone Experience</b>  Applied Game Design (1)  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) CORE (0.5) <i>*2026 &amp; 2027 only</i> 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) <i>*required for Grad Class of 2026 and beyond</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	Required Electives for Graduation
Art 1 (0.5) Art 2 (0.5) Drawing (0.5) Audio/Video Production 1 (1) Audio/Video Production 2 (1) Robotics (1) Computing Systems (1) Business Essentials (0.5) Principles of Marketing (1) Marketing Applications (1) Integrated Marketing—Daktronics Tech Team (1) World Languages (1)	Financial Literacy (0.5) Fine Arts (1) Oral Communications (0.5)  <i>(Oral Comm, College Public Speaking, Business Comm. Journalism &amp; Media Communications, Debate, or Forensics)</i>  <i>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</i>

### GRAPIC DESIGN #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> <li>Robotics Team</li> <li>Piper Graphics team</li> <li>Yearbook team</li> <li>Daktronics team</li> </ul>	<ul style="list-style-type: none"> <li>Cerner Scholars</li> <li>Capstone Experience: Internship or Client-Connected Project</li> <li>Java Certification</li> </ul>	<ul style="list-style-type: none"> <li>Computer Animation</li> <li>3D Modeling and Animation</li> </ul>	<ul style="list-style-type: none"> <li>Animation Director</li> <li>Game Artist</li> <li>Character Animator</li> <li>Game Designer</li> </ul>



# #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? Are you interested in being a preschool teacher or an in-home daycare provider? 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. Students in this sector explore the intersection of aesthetics and individual creativity to produce designs. Projects in these courses may include producing clothing designs to staging designs.

### RESTAURANT AND EVENT MANAGEMENT

A student in the Restaurant and Event Management sector develops the skills needed to successfully coordinate and direct resources to ensure 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.

### TRAVEL AND TOURISM

The Travel and Tourism sector studies the management of travel services for consumers. Travel services and entities include destinations, attractions, airlines, cruise lines, museums, cultural institutions and booking-related services.

### FAMILY AND BEHAVIORAL SCIENCE

Students in this sector will gain an understanding of 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.

### EARLY CHILDHOOD EDUCATION

Early Childhood Education is designed for students passionate about working with young children. Students will explore the principles of child development, learning environments, and teaching strategies for ages birth through five. Gain hands-on experience through classroom observations and activities, preparing you for careers in education, childcare, and related fields.



# 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
<b>REQUIRED</b> <b>Academy Prep:</b> Career & Life Planning  <b>MS Courses</b> FACS Design and Modeling Art Concepts Art Dimensions Sculpture	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	<b>Fashion and Apparel</b>			
	Essentials of Fashion and Interior Design (0.5) Drawing by Designers (0.5)	Apparel Production 1 (0.5)	Apparel Production 2 (0.5) Fashion Trends (0.5)	FAID Studio (1) Capstone Experience (1)
	<b>Interior Design</b>			
	Essentials of Fashion and Interior Design (.5) Drafting/Print Reading (0.5)	Interior Design (0.5)	Drafting/Architecture (0.5)	FAID Studio (1) Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective <small>* required for 2026, 2027 and 2028 only</small>	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 <small>*required for Grad Class of 2026 and beyond</small>	
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

Academy Electives	Required Electives for Graduation
Drawing (0.5) Art 2 (0.5) Painting (0.5) Ceramics/Sculpture (0.5) Stagecraft (0.5) Business Essentials (0.5) Business Management (0.5) Applied Business Development (1) Principles of Marketing (1) World Languages (1)	Financial Literacy (0.5) Fine Arts (1) Oral Communications (0.5)  (Oral Comm, College Public Speaking, Business Comm, Journalism & Media Communications, Debate, or Forensics)  <small>*these would need to fill one of the Elective options listed in the Required Core and</small>

### FASHION AND INTERIOR DESIGN #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> <li>Family Career and Community Leaders of America</li> </ul>	<ul style="list-style-type: none"> <li>FAID Studio Capstone Experience</li> </ul>	<ul style="list-style-type: none"> <li>Fashion Design</li> <li>Fashion Merchandising</li> <li>Interior Design</li> <li>Fashion Studies</li> <li>Apparel Design and Product Development</li> <li>Interior Design</li> </ul>	<ul style="list-style-type: none"> <li>Interior Designer</li> <li>Furnishings Coordinator</li> <li>Fashion Illustrator</li> <li>Textile Designer</li> <li>Fashion Designer</li> <li>Set/Exhibit Designer</li> <li>Visual Merchandiser</li> <li>Interior Architect</li> <li>Merchandise Manager</li> <li>Buyer</li> </ul>



# #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
<b>REQUIRED Academy Prep:</b> Career & Life Planning  <b>MS Courses</b> FACS	<b>Introductory Academy Course</b>  Culinary Essentials (0.5)  <i>*If Career and Life Planning wasn't taken, then Business Essentials is needed.</i>	<b>Technical Academy Course</b>  Culinary Arts 1 (1)  Baking & Pastry 1 (0.5)	<b>Application Academy Course</b>  Culinary Arts 2 (0.5)  Baking and Pastry 2 (0.5)  Event Planning and Management (0.5)  <b>Optional</b> KCKCC Culinary Program	<b>Capstone Experience</b>  Culinary Workplace Experience (1)  Capstone Experience (1)  <b>Optional</b> KCKCC Culinary Program
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective <i>* required for 2026, 2027 and 2028 only</i>	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>
	<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>			

#### 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

Financial Literacy (0.5)  
 Fine Arts (1)  
 Oral Communications (0.5)  
 (Oral Comm, College Public Speaking, Business Comm, Journalism & Media 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"> <li>Family Career and Community Leaders of America (FCCLA)</li> <li>PHS Culinary Team</li> </ul>	<ul style="list-style-type: none"> <li>USD 203 Internship with Food Services</li> <li>KCKCC Culinary Program</li> <li>ServSafe Allergens Cert</li> <li>ServSafe Food Handlers Cert</li> <li>ServSafe Food Managers Cert</li> </ul>	<ul style="list-style-type: none"> <li>Hotel Restaurant and Event Management</li> <li>Event Management</li> <li>Restaurant Management</li> <li>Tourism, Hospitality and Event Management</li> <li>Culinary Arts</li> <li>Pastry Arts</li> <li>Entrepreneurship</li> <li>Public Health</li> </ul>	<ul style="list-style-type: none"> <li>Conference Center Manager</li> <li>Event Manager</li> <li>Hotel Manager</li> <li>Outdoor Activities/Education Manager</li> <li>Public House Manager</li> <li>Restaurant Manager</li> <li>Chef</li> </ul>



# #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
<b>REQUIRED</b> 6th Academy Prep 7th Academy Prep 8th Academy Prep: Career & Life Planning  <b>MS Courses</b> FACS	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	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)	Hospitality and Lodging Management (1) Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective <small>* required for 2026, 2027 and 2028 only</small>	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 <small>*required for Grad Class of 2026 and beyond</small>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

#### Academy Electives

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)

#### Required Electives for Graduation

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

### TRAVEL AND TOURISM #FUTUREREADY EXPERIENCES

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



# #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
<b>REQUIRED</b> <b>Academy Prep:</b> Career & Life Planning  <b>MS Courses</b> FACS	<b>Introductory Academy Course</b>  Human Growth and Development (0.5)  Nutrition and Wellness (0.5)	<b>Technical Academy Course</b>  Family Studies (0.5)  Lifespan Development (0.5)	<b>Application Academy Course</b>  Psychology (0.5)  Sociology (0.5) or College Sociology (0.5)	<b>Capstone Experience</b>  Career or Community Connections (1)  Capstone Experience (1)  <b>Recommended</b> AP Psychology (1) or College Psych (0.5)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective <small>* required for 2026, 2027 and 2028 only</small>	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 <small>*required for Grad Class of 2026 and beyond</small>
	<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section</u> of the Course Guide</small>			

#### 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

Financial Literacy (0.5)  
 Fine Arts (1)  
 Oral Communications (0.5)  
(Oral Comm, College Public Speaking, Business Comm, Journalism & Media Communications, Debate, or Forensics)  
  
\*these would need to fill one of the Elective options listed in the Required Core and

### FAMILY AND BEHAVIORAL SCIENCE #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> <li>Family Career and Community Leaders of America (FCCLA)</li> </ul>	<ul style="list-style-type: none"> <li>Community Internship</li> </ul>	<ul style="list-style-type: none"> <li>Social Work</li> <li>Human Development</li> <li>Family and Consumer Sciences</li> <li>Humanities</li> <li>Speech and Language Pathology</li> <li>Early Childhood Education</li> <li>Applied Behavioral Sciences</li> <li>Psychology or Sociology</li> </ul>	<ul style="list-style-type: none"> <li>Community Services Director</li> <li>Adult and Child Day Care Coordinator</li> <li>Volunteer Coordinator</li> <li>Social Services Worker</li> <li>Social Psychologist</li> <li>Psychologist</li> <li>Counselor</li> <li>Sociologist</li> <li>Employment Counselor</li> <li>Residential Advisor</li> <li>Emergency and Relief Worker</li> <li>Family and Consumer Sciences Teacher</li> <li>Social Worker</li> <li>Youth Services Counselor</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF HUMAN SERVICES

## Early Childhood Education

### EARLY CHILDHOOD EDUCATION SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>REQUIRED</b> <b>Academy Prep: Career &amp; Life Planning</b>  <b>MS Courses</b> FACS	<b>Introductory Academy Course</b>  Human Growth and Development (0.5)	<b>Technical Academy Course</b>  Teaching Observation (0.5)  Family Studies (0.5)	<b>Application Academy Course</b>  Foundations of Early Childhood Development(1)  *KCKCC Tech Course  Teaching as a Career (1)  *Dual Credit Offered	<b>Capstone Experience</b>  Capstone Experience (1)  Early Childhood Internship (Community and Career Connections (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective <small>* required for 2026, 2027 and 2028 only</small>	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 <small>*required for Grad Class of 2026 and beyond</small>
	<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>			

Academy Electives	Required Electives for Graduation
Lifespan Development (0.5) Psychology (0.5) Sociology (0.5) Entrepreneurship (0.5) Business Essentials (0.5) World Languages (1)	Financial Literacy (0.5) Fine Arts (1) Oral Communications (0.5) <small>(Oral Comm, College Public Speaking, Business Comm, Journalism &amp; Media Communications, Debate, or Forensics)</small>  <small>*these would need to fill one of the Elective options listed in the Required Core and</small>

### EARLY CHILDHOOD EDUCATION #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors/Training	Careers
<ul style="list-style-type: none"> <li>Family, Career, and Community Leaders of America (FCCLA)</li> <li>Pirate Pals</li> </ul>	<ul style="list-style-type: none"> <li>Teaching Internship</li> </ul>	<ul style="list-style-type: none"> <li>Early Childhood Education</li> <li>Child Development Associate Credential</li> <li>Special Education</li> <li>School Psychology</li> <li>School Counseling</li> <li>School Social Work</li> </ul>	<ul style="list-style-type: none"> <li>Early Childhood Educator</li> <li>In-Home Daycare Owner</li> <li>Special Education Teacher</li> <li>School Counselor</li> <li>Principal</li> <li>Childcare Center Educator</li> <li>Nanny</li> </ul>



# #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 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.

## HEALTH SCIENCES AND BIOMEDICAL

Explore the dynamic world of healthcare through engaging courses designed to introduce students to foundational concepts in medical science, patient care, and public health. Students in this sector will gain hands-on experience and insights into the diverse opportunities in the health science field. Perfect for those considering a career in medicine, nursing, physical therapy, or related areas. Students in the Biomedical sector, will take it a step further and 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 by finding solutions to inactivity.

## SPORTS RECREATION AND PROGRAMMING

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 medical field, animal and plant sciences, sports recreation, or exercise science.

**#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
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
<b>REQUIRED:</b> <b>Academy Prep:</b> Career & Life Planning  <b>MS Course</b> Science	<b>Animal Sciences</b>			
	Environmental Science (1) <i>*Intro to Agriculture if offered</i>	<i>Animal Science (1)</i>	<i>Advanced Animal Science (1)</i>  <i>Chemistry (1)</i>	Animal Health/Vet Tech (1)  Capstone Experience (1)
	<b>Plant Sciences</b>			
	Environmental Science (1) <i>*Intro to Agriculture if offered</i>	<i>Plant and Soil Science (1)</i>	<i>Horticulture (1)</i>  <i>Chemistry (1)</i>	<i>Applications of Horticulture (1)</i>  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) <i>*CORE (0.5)</i> PE/Health (1) Academy Elective (1) Elective (1.5) <i>*required for 2026, 2027 and 2028 only</i>	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) <i>*SS Elective (0.5)</i> Elective <i>*required for Grad Class of 2026 and beyond</i>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <u>Important Academy and Post-Secondary Information Section</u> of the Course Guide</small>				

#### 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

Financial Literacy(0.5)  
 Fine Arts (1)  
 Oral Communications (0.5)  
 (Oral Comm, College Public Speaking, Business Comm, Journalism & Media 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"> <li>HOSA—Future Health Professionals Organization</li> </ul>	<ul style="list-style-type: none"> <li>Vet Tech Program</li> <li>Veterinarian Internship</li> <li>Greenhouse Internship</li> <li>Horticulturist Internship</li> <li>Landscaping Internship</li> </ul>	<ul style="list-style-type: none"> <li>Agriculture</li> <li>Animal Science</li> <li>Animal Health</li> <li>Plant Science</li> <li>Soil Science</li> </ul>	<ul style="list-style-type: none"> <li>Vet Tech</li> <li>Veterinarian</li> <li>Horticulturist</li> <li>Botanist</li> <li>Landscaping Manager</li> <li>Plant Pathologist</li> <li>Golf Course Superintendent</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF HEALTH & LIFE SCIENCE

## Health Sciences and Biomedical Sector

### HEALTH SCIENCES AND BIOMEDICAL SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>REQUIRED:</b> <b>Academy Prep:</b> Career & Life Planning  <b>MS Course</b> Medical Detectives Health	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	<b>Health Sciences</b>			
	Introduction to Healthcare (0.5) Nutrition and Wellness (0.5)	Anatomy and Physiology (1)	Medical Terminology (0.5)	Health Careers (CNA) At KCKCC  Capstone Experience (1)
	<b>Biomedical</b>			
	Principles of Biomedical Sciences (1)	Human Body Systems (1)	Medical Interventions (1)  Chemistry (1)	Biomedical Innovation (1) CCMA Cert Program  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5) <i>* required for 2026, 2027 and 2028 only</i>	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 <i>*required for Grad Class of 2026 and beyond</i>	
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

#### Academy Electives

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)

#### Required Electives for Graduation

Consumer Ed and Personal Finance (0.5)  
Fine Arts (1)  
Oral Communications (0.5)  
  
(Oral Comm, College Public Speaking, Business Comm, Journalism & Media 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"> <li>HOSA—Future Health Professionals Organization</li> <li>PLTW Capstone</li> </ul>	<ul style="list-style-type: none"> <li>KCKCC Health Careers</li> <li>CPR Certification</li> <li>CNA Certification</li> <li>The University of Kansas Health Systems Internship</li> <li>Client-Connected Project with WyCo Health Dept</li> <li>Certified Clinical Medical Aide Certification</li> </ul>	<ul style="list-style-type: none"> <li>Biology</li> <li>Chemistry</li> <li>Biomedical Engineering</li> <li>Pre-Nursing</li> <li>Pharmaceutical Sciences</li> <li>Pre-Med</li> <li>Forensic Chemistry</li> </ul>	<ul style="list-style-type: none"> <li>Research Scientist</li> <li>Pharmacologist</li> <li>Clinical Researcher</li> <li>Physician</li> <li>Nurse</li> <li>Certified Nurse Assistant</li> <li>Health Inspector</li> <li>Patent Examiner</li> <li>Medical Liaison</li> <li>Certified Clinical Medical Aide</li> <li>Surgeon</li> </ul>



# #FUTUREREADY



# THE ACADEMY OF HEALTH & LIFE SCIENCE

## Sports Recreation and Programming Sector

### SPORTS RECREATION AND PROGRAMMING SECTOR COURSE SEQUENCE

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>REQUIRED:</b> <b>Academy Prep:</b> Career & Life Planning  <b>MS Course</b> Medical Detectives Physical Education Health	<b>Introductory Academy Course</b>  <i>Intro to Recreational Sports (0.5)</i>  <i>Nutrition and Wellness (0.5)</i>  <i>Business Essentials (0.5)</i>	<b>Technical Academy Course</b>  <i>Intro to Officiating (0.5)</i>  <i>Business Communications (0.5)</i>  <i>Sports and Entertainment Marketing (0.5)</i>	<b>Application Academy Course</b>  <i>Care of Athletes (0.5)</i>  <i>Coaching and Leadership (0.5)</i>	<b>Capstone Experience</b>  <i>Capstone Experience (1)</i>
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5) *required for 2026, 2027 and 2028 only	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 *required for Grad Class of 2026 and beyond
	<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>			

Academy Electives	Required Electives for Graduation
Strength and Conditioning 1, 2, 3 (0.5) Low Impact Circuit Training (0.5) Teaching Observation (0.5) *Teaching as a Career (1) Teaching Internship (1) Intro to Healthcare (0.5) Care of Athletes (0.5) Medical Terminology (0.5) Human, Growth, and Development (0.5) Lifespan Development (0.5) World Languages (1) *Dual Credit via Baker University	Consumer Ed and Personal Finance (0.5) Fine Arts (1) Oral Communications (0.5)  (Oral Comm, College Public Speaking, Business Comm, Journalism & Media Communications, Debate, or Forensics)  *these would need to fill one of the Elective options listed in the Required Core and Elective Courses section

### HEALTH, HUMAN PERFORMANCE, AND SPORTS RECREATION #FUTUREREADY EXPERIENCES

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



# #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
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	<i>Intro to Healthcare (0.5)</i> <i>Nutrition and Wellness (0.5)</i>	<i>Anatomy &amp; 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) <i>Sports Medicine 2 (1)</i>
<b>Required Core and Elective Courses</b>				
<b>REQUIRED: Academy Prep: Career &amp; Life Planning</b>  <b>MS Course</b> Medical Detectives Physical Education Health	English (1) Math (1) Biology (1) CORE (0.5) PE/Health (1) Academy Elective (1) Elective (1.5) <i>* required for 2026, 2027 and 2028 only</i>	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>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

#### Academy Electives

Strength and Conditioning 1, 2, 3 (0.5)  
Low Impact Circuit Training (0.5)  
*Human, Growth, and Development (0.5)*  
*Lifespan Development (0.5)*  
*Principles of Biomedical (1)*  
*Human Body Systems (1)*  
*Medical Interventions (1)*  
*Intro to Recreational Sports (0.5)*  
*Intro to Officiating (0.5)*  
World Languages (1)

#### Required Electives for Graduation

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

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

### SPORTS MEDICINE AND EXERCISE SCIENCE #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> <li>Strength and Conditioning Team</li> <li>Team Manager or Student Trainer</li> <li>HOSA—Future Health Professionals Organization</li> </ul>	<ul style="list-style-type: none"> <li>Student Trainer Program</li> <li>Strength and Conditioning Summer Interns</li> <li>Piper Optimist Interns</li> <li>First Aid/CPR Certification</li> <li>Seal of Biliiteracy</li> <li>Piper Optimist Client-Connected Project</li> </ul>	<ul style="list-style-type: none"> <li>Athletic Training</li> <li>Exercise Science</li> <li>Kinesiology</li> <li>Human Anatomy</li> <li>Athletic Injury Prevention</li> <li>Sports Nutrition</li> <li>Biomechanics</li> <li>Therapeutic Exercise</li> <li>Community Health</li> </ul>	<ul style="list-style-type: none"> <li>Physical Therapist</li> <li>Physician Assistant</li> <li>Nutritionist</li> <li>Coach</li> <li>Sports Psychologist</li> <li>Exercise Physiologist</li> <li>Team Physician</li> <li>Orthopedic Surgeon</li> </ul>



# #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 want a career that's more than a job? Public Services offer the chance to serve your community, protect others, and create positive change. Whether you're drawn to law enforcement, firefighting, emergency management, or public administration, these careers provide purpose, stability, and the opportunity to be a hero in everyday life.

The Academy of Public Services provides academic and technical courses that 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
<b>REQUIRED</b> <b>ACADEMY PREP:</b> Career & Life Planning  <b>MS Courses</b> Forensic Science	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	Introduction to Law Public Safety, Corrections, and Security (0.5)	Medical Terminology (0.5)  Chemistry (1)	Forensic Science 1 (1)	Forensic Science 2 (1)  Capstone Experience (1)
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective (2) <small>* required for 2026, 2027 and 2028 only</small>	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 <small>*required for Grad Class of 2026 and beyond</small>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

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)	Financial Literacy (0.5) Fine Arts (1) Oral Communications(0.5) <small>(Oral Comm, College Public Speaking, Business Comm, Journalism &amp; Media Communications, Debate, or Forensics)</small>  <small>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</small>

### FORENSIC SCIENCE #FUTUREREADY EXPERIENCES

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



# #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
	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	<b>Law</b>			
	Introduction to Law Public Safety, Corrections, and Security (0.5)  Business Essentials (0.5)	Business Law (0.5) or Practical Law (0.5)	*Intro to Criminal Justice (0.5)  Business Law (0.5) or Practical Law (0.5)	Foundations in Law (1)  Capstone Experience (1)  AP Government (1) <i>Highly recommended</i>
	<b>Fire/EMS</b>			
	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)	Fire Science 2 (1)  KCKCC Fire Science Program  Capstone Experience (1)
	<b>Police</b>			
	Introduction to Law Public Safety, Corrections, and Security (0.5)	Introduction to Emergency Medical Services (0.5)  Medical Terminology (0.5)	*Intro to Criminal Justice (0.5)  Public Safety Physical Education (1)  Forensic Science (1)	Capstone Experience (1) KCKCPD Summer Cadet, 911 Call Intake, or Correctional Cadet Internship
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective <i>* required for 2026, 2027 and 2028 only</i>	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>

**REQUIRED ACADEMY PREP**  
Career & Life Planning

#### Academy Electives

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)

#### Required Electives for Graduation

Financial Literacy (0.5)  
Fine Arts (1)  
Oral Communications (0.5)  
  
(Oral Comm, College Public Speaking, Business Comm, Journalism & Media Communications, Debate, or Forensics)  
  
*\*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section*

### LAW AND PUBLIC SAFETY #FUTUREREADY EXPERIENCES

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



# #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
<b>REQUIRED ACADEMY PREP</b> Career & Life Planning	<b>Introductory Academy Course</b>	<b>Technical Academy Course</b>	<b>Application Academy Course</b>	<b>Capstone Experience</b>
	<b>Teaching and Training</b>			
	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
	<b>Required Core and Elective Courses</b>			
	English (1) Math (1) Biology (1) *CORE (0.5) PE/Health (1) Academy Elective (1) Elective (2) <small>* required for 2026, 2027 and 2028 only</small>	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 <small>*required for Grad Class of 2026 and beyond</small>
<small>Graduation Endorsement and CTE Scholars Recognition criteria can be found in the <a href="#">Important Academy and Post-Secondary Information Section</a> of the Course Guide</small>				

Academy Electives	Required Electives for Graduation
World Languages (1) Family Studies(1) Area of Concentration within Education (Math, Social Studies, Science, ELA, Music, PE, Art, Technology, Business, Journalism, FACS, etc.)	Financial Literacy (0.5) Fine Arts (1) Oral Communications (0.5) (Oral Comm, College Public Speaking, Business Comm, Journalism & Media Communications, Debate, or Forensics)  <small>*these would need to fill one of the Elective options listed in the Required Core and Elective Courses section</small>

### TEACHING AND TRAINING #FUTUREREADY EXPERIENCES

Experiences	Market Value Assets	College Majors	Careers
<ul style="list-style-type: none"> <li>Family, Career, and Community Leaders of America (FCCLA)</li> <li>Pirate Pals</li> </ul>	<ul style="list-style-type: none"> <li>Teaching Internship</li> <li>Reading Group Leader</li> <li>Summer Learning Intern</li> <li>District Education Event Participation</li> </ul>	<ul style="list-style-type: none"> <li>Elementary, Secondary, and Special Education</li> <li>School Psychology</li> <li>School Counseling</li> <li>School Social Work</li> <li>Library Media Specialist</li> </ul>	<ul style="list-style-type: none"> <li>Elementary Educator</li> <li>Secondary Educator</li> <li>Special Education Teacher</li> <li>School Counselor</li> <li>Principal</li> <li>School Librarian</li> </ul>



# #FUTUREREADY

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## Message from the Principal

Dear PHS Family,

While we continue our teaching and learning in the 2024-25 school year, we are also planning ahead for the upcoming school year. As part of that planning, we turn our attention to course selection for 2025-26. I encourage you to make your choices carefully. At PHS, we want every student to be able to personalize their learning experience, and we want all of our students to have the opportunity to select classes and learning opportunities that best meet their needs, 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 and relevant learning 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, do not hesitate to reach out. It is an honor to work with you as you embark on your road to success.

Sincerely,

Dr. Justin Bogart  
Principal

## 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.



## 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 the 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.

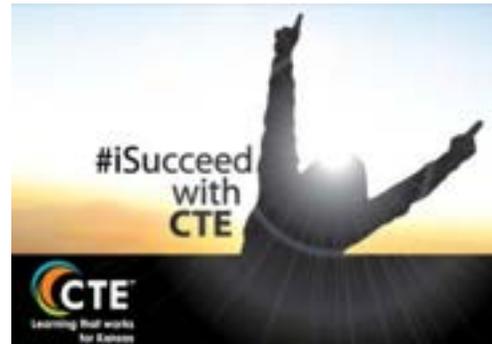
1. Work involves authentic methods and tools used by professionals in the work environment.
2. Experience includes mentoring and evaluation by working professionals.
3. Output is viewed as value-add by external stakeholders and resume-worthy

## 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 the 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:

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



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.



# The Academies of Piper High School

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 the 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 change 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. The requirements and information listed below in this policy, apply to early graduates enrolled at Greenbush Virtual as well.

### **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 or the Latin Honors Systems honors. 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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.

**COURSE FEES STATEMENT**

Approved by the Board of Education, the courses below have fees. Student Free and Reduced fee status also applies to course fees.

<b>Academy of Design, Production, and Aviation Course Fees</b>	
<b>Course Name</b>	<b>Course Fees</b>
Geometry in Construction	\$25/Semester
Woodworking Principles	\$50/Semester
Advanced Materials and Fabrication	\$50/Semester
Architectural Design I and II	\$20/Semester
<b>Academy of Arts and Media Course Fees</b>	
<b>Course Name</b>	<b>Course Fees</b>
Art 1	\$25/Semester
Art 2	\$25/Semester
Drawing for Designers	\$25/Semester
Drawing	\$25/Semester
Painting	\$25/Semester
Ceramics 1	\$25/Semester
Ceramics 2	\$25/Semester
<b>Academy of Human Services Course Fees</b>	
<b>Course Name</b>	<b>Course Fees</b>
Culinary 1	\$25/Semester
Culinary 2	\$25/Semester
Baking 1	\$25/Semester
Baking 2	\$25/Semester
<b>Academy of Health and Life Science Course Fees</b>	
<b>Course Name</b>	<b>Course Fees</b>
Biomedical Innovation	\$85/Semester for Certified Clinical Medical Aide

# 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				
	2029	2028	2027	2026
<b>Communications</b>		<b>ELA</b>		
English	3.5	3.5	4	4
Oral Communications	0.5	0.5	0.5	0.5
<b>Society and Humanities</b>		<b>Fine Arts and Social Studies</b>		
Fine Arts	1	1	1	1
Social Studies	3	3	3	3
<b>STEM</b>		<b>Math and Science</b>		
Math	3	3	3	3
Science	3	3	3	3
*STEM: Capstone Experience Course *Advanced CTE course	1	1		
<b>Employability and Life Skills</b>		<b>Required Electives</b>		
PE	0.5	0.5	0.5	0.5
Health	0.5	0.5	0.5	0.5
Financial Literacy	0.5	0.5	0.5	0.5
Electives driven by IPS *Academy Electives	4.5	4.5		
<b>Locally Required</b>		<b>Locally Required</b>		
CORE		0.5	0.5	0.5
Academy Courses (Career Pathway) and Electives			10.5	10.5
Choice Electives	6	5.5		
Capstone Experience Course	1	1	1	1
<b>Market Value Assets</b>		<b>Market Value Assets</b>		
Capstone Experience *Client-Connected Project, Internship, Entrepreneurial Experience, and Industry Recognized Credential or 9 or more Dual Credit Hours Capstone Presentation Senior Presentation	<i>Two or more Market Value Assets required</i>	<i>Two or more Market Value Assets required</i>	<i>One or more Market Value Assets highly encouraged</i>	<i>One or more Market Value Assets highly encouraged</i>
<b>TOTAL CREDITS</b>		<b>28</b>	<b>28</b>	<b>28</b>

**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 and 4																		
College Public Speaking	Honors Forensics 3 and 4																		
Honors Biology	College Spanish																		
AP Biology	AP Spanish																		
AP Physics	College Intro to Business																		
AP Chemistry	College Intro to Informational Tech (IT)																		
AP European History	College Microeconomics																		
AP US History	College Accounting																		
College US History	College Elementary Latin																		
AP US Government and Politics	College Understanding Music																		
AP Psychology	College Intro to Christianity																		
College Psych	College Teaching as a Career																		
College Sociology	College Teaching Internship																		
Honors Geometry	College Intro to Criminal Justice																		
	<b>Grading Scale</b> A = 90 - 100% B = 80 - 89% C = 70 - 79% D = 60 - 69% F = below 60%																		
<table border="0"> <thead> <tr> <th></th> <th><b>A</b></th> <th><b>B</b></th> <th><b>C</b></th> <th><b>D</b></th> <th><b>F</b></th> </tr> </thead> <tbody> <tr> <td><b>Regular</b></td> <td>4.00</td> <td>3.00</td> <td>2.00</td> <td>1.00</td> <td>0.00</td> </tr> <tr> <td><b>Weighted</b></td> <td>5.00</td> <td>4.00</td> <td>2.00</td> <td>1.00</td> <td>0.00</td> </tr> </tbody> </table>		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>	<b>Regular</b>	4.00	3.00	2.00	1.00	0.00	<b>Weighted</b>	5.00	4.00	2.00	1.00	0.00	
	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>														
<b>Regular</b>	4.00	3.00	2.00	1.00	0.00														
<b>Weighted</b>	5.00	4.00	2.00	1.00	0.00														

## **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.

## **LATIN HONORS SYSTEM**

Beginning with the Class of 2028, Piper High School will follow the Latin Honors system instead of the Valedictorian/Salutatorian Recognition system it has followed. The Latin Honors system will be awarded based on cumulative GPA. The designations will be as follows: cum laude (*"with praise"*), magna cum laude (*"with great praise"*), and summa cum laude (*"with highest praise"*).

### **Recognition Level - Weighted Cumulative GPA**

- Summa Cum Laude - 4.2+ GPA
- Magna Cum Laude - 4.0+ GPA
- Cum Laude - 3.8+ GPA

### **Latin Honors System Recognition**

- All three levels are denoted in the Graduation Program.
- Students earn cords of different colors.
- Magna Cum Laude & Cum Laude stand to be recognized at Graduation.
- Summa Cume Laude names are read and recipients will be awarded a plaque or medallion on stage, with the potential opportunity to speak in representation of that group.

### **Latin Honors System Information**

To be considered for Summa Cume Laude, students will be participating in our most rigorous course of study. Therefore, students are unable to enroll in Teacher's Aide, Office Aide, Library Aide, or Senior Release throughout their four-year career.

## **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
- Attending an academy-related guest 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
- Participating in an Employability Skills Workshop
- Attending an Academy-focused Career Day
- Attending the District High-Wage High-Demand Career Day
- Volunteering for Academy related middle 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](https://rwl.piperschools.com/Design,ProductionandAviation)  
[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 8<sup>th</sup> 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:

### Emporia State, Pitt State, Fort Hays State, and Wichita State:

- ACT 21+ (SAT 1060) **OR** Cumulative GPA 2.25+
- Cumulative GPA 2.0+ for College Credit earned in High School

### Kansas State University:

- ACT 21+ (SAT 1060) **OR** Cumulative GPA 3.25+
- Cumulative GPA 2.0+ for College Credit earned in High School

### University of Kansas:

- 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

### Kansas State Scholars Curriculum **RECOMMENDED**, but not required

- 4 credits of English
- 4 credits of Math; Algebra 1, Geometry, Algebra 2, and 1 advanced course (Algebra 1 taken in the 8<sup>th</sup> 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 for intermediate and advanced proficiencies in English and one or more additional language(s). Piper students who achieve the Seal of Biliteracy will be recognized by the state and celebrated by our district. To learn more about how to earn this recognition, please visit the [KSDE Seal of Biliteracy website](#).

## AP, DUAL, CONCURRENT CREDIT

### (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 Physics	AP Stats
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. Every student enrolled in dual credit, does need a signed contract on file. These are provided during the enrollment process.

**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

	<b>Kansas City Community College</b> 	<b>Baker University</b> 	<b>Donnelly College</b> 
<b>Location</b>	PHS Campus	Online	PHS Campus
<b>Approximate Cost</b>	\$89 per credit hour	\$118 per credit hour	\$75 per credit hour

<b>Per Credit Hr</b>			
	<b>Kansas City Community College</b> 	<b>Baker University</b> 	<b>Donnelly College</b> 
<b>Concurrent Courses</b>	College Psychology College US History College Sociology	College Algebra College Teaching as a Career College Teaching Internship	College Spanish
<b>Dual Enrollment Courses</b>	Public Speaking Composition I Composition II	Intro to Business Intro to Informational Technology (IT) Intro to Criminal Justice 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 before 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. **We require an internal contract to be signed by student and parent/guardian outlining the KCKCC TEC policies.** 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

<b>TEC Program</b>	<b>FEES-estimate</b>	<b>TEC Program</b>	<b>FEES-estimate</b>
Auto Collision		Health Careers ( <b>Seniors ONLY</b> )	\$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 ( <b>Seniors ONLY</b> )	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. Students that attend Greenbush must still complete Piper High School's graduation requirements and follow our early graduation policy. Please contact your student's high school counselor to learn more about this alternative option.

## NCAA ELIGIBILITY CENTER

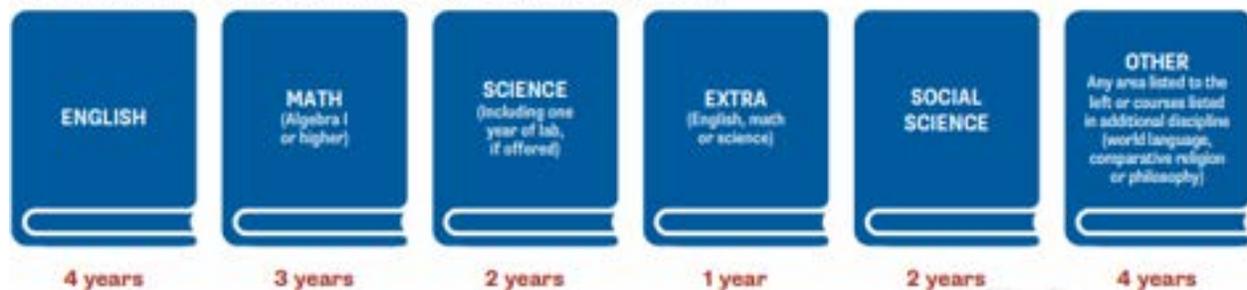
To participate in athletics at a NCAA Division I or II school **AND** to receive an athletic scholarship from a NCAA Division I or II school, you must meet the NCAA Clearinghouse qualifications. In the summer between your junior and senior year, you will need to register as a prospective student-athlete at the following site; <https://www.ncaa.org/sports/2021/2/8/student-athletes-future.aspx> There is a fee to register. This site also has an Eligibility toolbox to walk you through the eligibility process.

# Division I Academic Standards

Division I schools require you to meet academic standards. To be eligible to practice, compete and receive an athletics scholarship in your first year of full-time enrollment, you must meet the following requirements:



1. Earn 16 NCAA-approved core-course credits in the following areas:

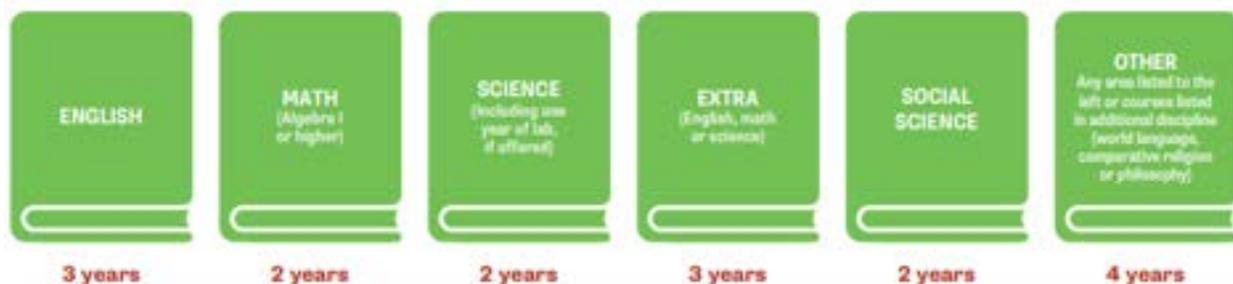


# Division II Academic Standards

Division II schools require you to meet academic standards. To be eligible to practice, compete and receive an athletics scholarship in your first year of full-time enrollment, you must meet the following requirements:



1. Earn 16 NCAA-approved core-course credits in the following areas:



## Approved NCAA Courses

To meet NCAA eligibility standards, students must complete courses officially approved by the NCAA Eligibility Center. At Piper High School, only the courses listed in the table are NCAA-approved. It is essential to meet with your high school counselor to ensure you are following the correct course sequence to satisfy these requirements.

<b>English Language Arts Department</b>	
English 1	Honors English 1
English 2	Honors English 2
English 3	AP Seminar
English 4	AP Language and Composition
Oral Communications	AP Literature and Composition
Public Speaking	College Composition 1
African American Literature	College Composition 2
Debate 1	Forensics 1
Honors Debate 3	Forensics 2
Honors Forensics 3	Forensics 3
Honors Forensics 4	Forensics 4
<b>Social Studies Department</b>	
World Studies	AP European History
World History	AP US History
American History	AP Government
Government	AP Psychology
Psychology	College Psychology
Sociology	College Sociology
Current and Social Issues	Economics
<b>Mathematics Department</b>	
Algebra 1	Geometry
Algebra 2	Honors Geometry
Honors Algebra 2	Advanced Algebra
Pre-Calculus	Statistics
AP Calculus	AP Statistics
<b>Science Department</b>	
Biology	Honors Biology
Environmental Science	AP Biology
Physical Science	College Biology
Chemistry	AP Chemistry

Physics	AP Physics
Intro to Plant Science	Intro to Animal Science
Anatomy and Physiology	Botany
Human Body Systems	Medical Interventions
Principles of Biomedical	Forensic Science
<b>World Languages Department</b>	
Spanish 1	AP Spanish
Spanish 2	French 1
Spanish 3	French 2

### **ROTATING COURSE OFFERINGS**

To optimize course enrollment and ensure each sector's offerings have enough enrollment to be on the master schedule, some courses will rotate between even and odd years. This approach boosts enrollment in the years the courses are offered and guarantees that students can access all the classes needed to achieve Academy Completion and CTE Completer status.

<b>Academy of Design, Production, and Aviation Rotating Courses</b>	
<b>ODD YEARS 2025-2026</b>	<b>EVEN YEARS 2026-2027</b>
	Aerospace Engineering
<b>Academy of Business Entrepreneurship and Innovation Rotating Courses</b>	
<b>ODD YEARS 2025-2026</b>	<b>EVEN YEARS 2026-2027</b>
Accounting 1	Advanced Accounting
	Business Law
<b>Academy of Arts and Media Rotating Courses</b>	
<b>ODD YEARS 2025-2026</b>	<b>EVEN YEARS 2026-2027</b>
	3D Animation
Business in Music	
<b>Academy of Human Services Rotating Courses</b>	
<b>ODD YEARS 2025-2026</b>	<b>EVEN YEARS 2026-2027</b>
Apparel Production 1	Apparel Production 2
Interior Design	Fashion Trends
Foundations of Travel and Tourism	Foundations of Hospitality and Lodging
<b>Academy of Health and Life Sciences and Science Department Rotating Courses</b>	

<b>ODD YEARS</b> <b>2025-2026</b>	<b>EVEN YEARS</b> <b>2026-2027</b>
	Medical Terminology
Sports Medicine 1	Sports Medicine 2
AP Physics	AP Chem
AP Bio	
<b>Academy of Public Services Rotating Courses</b>	
<b>ODD YEARS</b> <b>2025-2026</b>	<b>EVEN YEARS</b> <b>2026-2027</b>
Forensic Science 2	Forensic Science 1
<i>*Intro to Criminal Justice - offered this year to launch, will only be offered during EVEN years</i>	Intro to Criminal Justice
Practical Law	
	AP Psychology

# LANGUAGE ARTS

Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
English 1	1	9	<i>*approved NCAA course</i>	English
Honors English 1	1	9	<i>*approved NCAA course</i>	English
AP Seminar: English 10	1	10	<i>*approved NCAA course</i>	English
English 3	1	11	AP Seminar: English 10 <i>*approved NCAA course</i>	English
AP English Language and Comp	1	11	AP Seminar: English 10 <i>*approved NCAA course</i>	English
English 4	1	12	English 3 or AP English Language and Comp <i>*approved NCAA course</i>	English
AP Literature and Composition	1	12	English 3 or AP English Language and Comp <i>*approved NCAA course</i>	English
Composition I (ENGL 101)	0.5	11-12	ACT English- 18+, 255+ in Reading/Writing Accuplacer <i>*approved NCAA course</i>	Elective
Composition II (ENGL 102)	0.5	11-12	Completion of Composition I with a "C" or higher <i>*approved NCAA course</i>	Elective
Public Speaking (SPCH 151)	0.5	11-12	ACT English-18+ or Accuplacer Reading/Writing 255+ <i>*approved NCAA course</i>	Oral Comm Elective
Oral Communication	0.5	9-12	<i>*approved NCAA course</i>	Oral Comm Elective
African American Literature	0.5	10-12	English 1 or Honors English 1	Elective
Reading Lab	0.5	9-10	20% or below on Fastbridge. KAP Scores of 1 or 2	Elective

## ENGLISH 1

**LA101A (SEM 1) AND LA101B (SEM 2)**

**1 credit/Year**

*\*approved NCAA course*

**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

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

**1 credit/Year**

*\*approved NCAA course*

**Grade: 9**

**Prerequisite: None**

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.

## AP SEMINAR: ENGLISH 2

**LA101A AND LA101B**

**1 Credit/Year**

*\*approved NCAA course*

**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****LA014A (SEM 1) AND LA104B (SEM 2)****Grade: 11****Prerequisite: AP Seminar: English 10**

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.

**1 credit/Year***\*approved NCAA course***AP ENGLISH LANGUAGE AND COMPOSITION****LA108A (SEM 1) AND LA108B (SEM 2)****Grade: 11****Prerequisite: AP Seminar: English 10**

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).**

**1 credit/Year***\*approved NCAA course***ENGLISH 4****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.

**1 credit/Year***\*approved NCAA course***AP LITERATURE AND COMPOSITION****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).**

**1 credit/Year***\*approved NCAA course***COMPOSITION I (ENGL 101)****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*

**0.5 Credit/Semester***\*approved NCAA course*

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)**

*\*approved NCAA course*

**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**

*\*approved NCAA course*

**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**

*\*approved NCAA course*

**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**

**0.5 Credit/Semester**

**LA1036**

**Grade: 9-10**

**Prerequisite: 20%ile or below on Fastbridge assessment or KAP scores of 1 or 2**

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.

**MATHEMATICS**

Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Math Lab	1	9-10	20% or below on Fastbridge results or KAP Scores of 1 or 2	Elective
Algebra 1	1	9	<i>*approved NCAA course</i>	Math

Geometry	1	9-10	<i>*approved NCAA course</i>	Math
Honors Geometry	1	9-10	<i>*approved NCAA course</i>	Math
Geometry in Construction	2	9-10	Algebra 1	Tech Math
Algebra 2	1	10-12	<i>*approved NCAA course</i>	Math
Honors Algebra 2	1	10- 12	<i>*approved NCAA course</i>	Math
Advanced/College Algebra	1	11- 12	Honors Algebra 2 or Algebra 2 Optional for college credit via Baker University <i>*approved NCAA course</i>	Math
AP Pre-Calc	1	11-12	Algebra 2 or Honors Algebra 2 highly recommended for Engineering students	Math
Statistics	1	11-12	Algebra 2 or Honors Algebra 2 <i>*approved NCAA course</i>	Math
AP Calculus AB	1	11-12	AP Pre-Calculus highly recommended for Engineering students <i>*approved NCAA course</i>	Math
AP Statistics	1	12	Statistics <i>*approved NCAA course</i>	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/or KAP assessment scores of 1 or 2**

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)**

*\*approved NCAA course*

**Grade: 9**

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**

**1 credit/Year**

**MA205A (SEM 1) AND MA205B (SEM 2)**

*\*approved NCAA course*

**Grade: 9,10**

**Prerequisite: Algebra 1**

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)**

*\*approved NCAA course*

**Grade: 9-10**

**Prerequisite: Algebra 1**

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

DR206A (SEM 1) and DR206B (SEM 2)

Courses Fees: \$25/Semester

Grade: 9-11

**Prerequisite: 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)

\*approved NCAA course

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)

\*approved NCAA course

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 an 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)

\*approved NCAA course

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****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.

**1 credit/Year***\*approved NCAA course***AP CALCULUS AB****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).**

**1 credit/Year***\*approved NCAA course***AP STATISTICS****MA204A (SEM 1) AND MA204B (SEM 2)****Grade: 12****Prerequisite: Statistics**

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).**

**1 credit/Year***\*approved NCAA course***SCIENCE**

Course Name	Credit	Grade(s) ) Offered	Prerequisite	Type of Credit
Biology 1	1	9	<i>*approved NCAA course</i>	Science
Honors Biology 1	1	9	<i>*approved NCAA course</i>	Science
Environmental Science	1	9-12	Concurrent enrollment of Biology or Honors Bio <i>*approved NCAA course</i>	Elective
Intro to Agriculture	0.5	9-12	None	Elective
Animal Science	0.5	10-12	Environmental Science or Intro to Agriculture	Elective
Advanced Animal Science	0.5	11-12	Animal Science or Intro to Agriculture	Elective
Plant and Soil Sciences	1	10-12	Environmental Science or Intro to Agriculture	Elective
Horticulture	1	12	Plant and Soil Science	Elective
Horticulture, Floriculture, and Greenhouse Management	1	12	Horticulture	Elective
Physical Science	1	10-12	Biology 1 or Honors Biology 1 <i>*approved NCAA course</i>	Science
Chemistry 1	1	10-12	Biology 1 and Algebra 2/Honors Algebra 2 or concurrent enrollment of Algebra 2/Honors Algebra <i>*approved NCAA course</i>	Science
AP Chemistry	1	11-12	Chemistry 1 <i>*approved NCAA course</i> <i>*only offered on even years (ie 2026-2027)</i>	Science
Physics 1	1	11-12	Concurrent enrollment or completion of Chemistry 1 <i>*approved NCAA course</i>	Science
AP Physics	1	11-12	Chemistry 1, Physics 1 recommended	Science

			<i>*approved NCAA course *only offered on odd years (ie 2025-2026)</i>	
AP Biology	1	11-12	Biology or Honors Biology and Chemistry <i>*approved NCAA course *only offered on odd years (ie 2025-2026)</i>	Science
Anatomy and Physiology	1	10- 12	Biology 1 or Honors Biology 1 <i>*approved NCAA course</i>	Science
Principles of Biomedical Science	1	9-12	Biology 1 or concurrent enrollment in Biology 1 <i>*approved NCAA course</i>	Elective
Human Body Systems	1	10-12	Principles of Biomedical Science <i>*approved NCAA course</i>	Elective
Medical Interventions	1	11-12	Human Body Systems <i>*approved NCAA course</i>	Elective
Biomedical Innovation	1	12	Medical Interventions	Elective
Forensic Science I	1	10-12	Intro to Law, Public Services, and Security <i>*approved NCAA course</i>	Elective
Forensic Science 2	1	11-12	Forensic Science 1	Elective

## **BIOLOGY 1**

**SC303A (SEM 1) AND SC303B (SEM 2)**

**1 Credit/Year**

*\*approved NCAA course*

**Grade: 9**

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**

**SC318A (SEM 1) AND SC318B (SEM 2)**

**1 Credit/Year**

*\*approved NCAA course*

**Grade: 9**

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**

**HS103A(SEM 1) AND HS103B(SEM 2)**

**1 Credit/Year**

*\*approved NCAA course*

**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.

## **INTRODUCTION TO AGRICULTURE**

**0.5 Credit/Semester**

**Grades 9-12**

**Prerequisite: None**

Introduction to Agriculture courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and livestock career opportunities and to those in related fields (such as natural resources). These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. They often focus on developing communication skills, business principles, and leadership skills.

**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****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.

**PLANT AND SOIL SCIENCES (BOTANY/ECOLOGY)****1.0 Credit/Semester****ST230A (SEM 1) AND ST230B (SEM 2)****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.

**HORTICULTURE****1 Credit/Year****HS104A (SEM 1) AND HS104B (SEM 2)****Grade: 11-12****Prerequisite: Intro to Agriculture, Plant and Soil Sciences**

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.

**Horticulture, Floriculture, and Greenhouse Management****1 credit/Year****HS105A (SEM 1) AND HS105B (SEM 2)****Grade: 12****Prerequisite: Horticulture**

Plant Identification and floral design are necessary knowledge skills along with the selection of greenhouse plants and management of greenhouses for production of plants and flowers in the industry.

**PHYSICAL SCIENCE****1 Credit/Year****SC311A (SEM 1) AND SC311B (SEM 2)***\*approved NCAA course***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)

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.

**1 Credit/Year**

*\*approved NCAA course*

## AP CHEMISTRY

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).**

**1 Credit/Year**

*\*approved NCAA course*

*\*only offered on even years (ie 2026-2027)*

## AP BIOLOGY

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).**

**1 Credit/Year**

*\*approved NCAA course*

*\*only offered on odd years (ie 2025-2026)*

## PHYSICS 1

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.

**1 Credit/Year**

*\*approved NCAA course*

## AP PHYSICS

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).**

**1 Credit/Year**

*\*approved NCAA course*

*\*only offered on odd years (ie 2025-2026)*

## ANATOMY AND PHYSIOLOGY

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.**

**1 Credit/Year**

*\*approved NCAA course*

**PRINCIPLES OF BIOMEDICAL SCIENCE****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.

**1 credit/Year***\*approved NCAA course***HUMAN BODY SYSTEMS****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.

**1 Credit/Year***\*approved NCAA course***MEDICAL INTERVENTIONS****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.

**1 Credit/Year***\*approved NCAA course***BIOMEDICAL INNOVATION: CAPSTONE COURSE FOR BIOMEDICAL- PLTW****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.

**1 Credit/Year****FORENSIC SCIENCE 1****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).

**1 Credit/Semester***\*approved NCAA course***FORENSIC SCIENCE 2****PS1002****Grade: 11-12****Prerequisite: Forensic Science 1, Chemistry****1 Credit/Semester**

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).

## SOCIAL SCIENCE

Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
World History	1	10	<i>*approved NCAA course</i>	Social Studies
AP European History	1	10	<i>*approved NCAA course</i>	Social Studies
American History	1	11	World History or AP Euro <i>*approved NCAA course</i>	Social Studies
AP U.S. History	1	11	World History or AP Euro <i>*approved NCAA course</i>	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 <i>*approved NCAA course</i>	Social Studies
AP U.S. Government and Politics	1	12	American History or AP American History <i>*approved NCAA course</i>	Social Studies SS Elective
Psychology	0.5	11-12	<i>*approved NCAA course</i>	SS Elective
AP Psychology	1	12	Psychology <i>*approved NCAA course</i> <i>*Course offered on odd years (2025-2026)</i>	SS Elective
Economics	0.5	11-12	<i>*approved NCAA course</i>	SS Elective
Current Social Issues	0.5	11-12	<i>*approved NCAA course</i>	SS Elective
College Microeconomics (EC242)			Only offered as Dual Credit ONLINE via Baker University	SS Elective
Sociology	0.5	11-12	<i>*approved NCAA course</i>	SS Elective
College Psychology (PSYC 101)	0.5	11-12	18 or higher on English and Reading ACT or Accuplacer Reading/Writing-255+ <i>*approved NCAA course</i>	SS Elective
College Sociology (SOSC 107)	0.5	11-12	18 or higher on English and Reading ACT or Accuplacer Reading/Writing-255+ <i>*approved NCAA course</i>	SS Elective
College Introduction to Christianity (RE106)	0.5	11-12	Only offered as Dual Credit ONLINE via Baker University	SS Elective

### WORLD HISTORY

**SS401A (SEM 1) AND SS401B (SEM 2)**

**1 Credit/Year**

*\*approved NCAA course*

**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

**SS450A (SEM 1) AND SS450B (SEM 2)**

**1 Credit/Year**

*\*approved NCAA course*

**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

**SS405A (SEM 1) AND SS405B (SEM 2)**

**1 Credit/Year**

*\*approved NCAA course*

**Grade: 11**

**Prerequisite: World History or AP European History**

During this course, students will focus on American History starting with the end of the 19<sup>th</sup> 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**

**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).**

**1 Credit/Year**

*\*approved NCAA course*

**US HISTORY TO 1877**

**SS407A**

**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*

**0.5 Credit/Year**

**US HISTORY FROM 1877**

**SS407B**

**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*

**0.5 Credit/Year**

**AMERICAN GOVERNMENT**

**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.

**0.5 Credit/Year**

*\*approved NCAA course*

**AP U.S. GOVERNMENT AND POLITICS**

**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).**

**1 Credit/Year**

*\*approved NCAA course*

**PSYCHOLOGY****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.

**0.5 Credit/Year***\*approved NCAA course***AP PSYCHOLOGY****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).**

**1 Credit/Year***\*approved NCAA course**\*Course offered on odd years (2025-2026)***ECONOMICS****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.

**0.5 Credit/Semester***\*approved NCAA course***CURRENT SOCIAL ISSUES****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. .

**0.5 Credit/Semester***\*approved NCAA course***COLLEGE MICROECONOMICS VIA BAKER UNIVERSITY****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.*

**0.5 Credit/Semester****SOCIOLOGY****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.

**0.5 Credit/Semester***\*approved NCAA course*

**COLLEGE PSYCHOLOGY (PSYC 101)****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.*

**0.5 Credit/Semester***\*approved NCAA course***COLLEGE SOCIOLOGY (SOSC 107)****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.*

**0.5 Credit/Semester***\*approved NCAA course***COLLEGE INTRODUCTION TO CHRISTIANITY (RE106) VIA BAKER UNIVERSITY****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.*

**0.5 Credit/Semester****PHYSICAL EDUCATION**

Course Name	Credit	Grade(s) Offered	Prerequisite
Fall Physical Education	0.5	9-12	Repeatable for credit
Spring PE		9-12	Repeatable for credit
Health	0.5	9	Required for Graduation
Low Impact Circuit Training	0.5	10-12	Fall PE and/or Spring PE
Strength and Conditioning 1	0.5	9-12	
Strength and Conditioning 2	0.5	10-12	Strength and Conditioning 1
Strength and Conditioning 3	0.5	10-12	Strength and Conditioning 2
Individual and Dual Sports	0.5	10-12	Fall PE, Spring PE, Low Impact, or Strength & Conditioning
Applied Team Sports	0.5	10-12	2 PE credits, sophomores with recommendation

**HEALTH****PE811B****Grade: 9****Prerequisite: None**

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.

**0.5 credit/Year****FALL PE****Grade: 9-12****0.5 Credit/Semester**

**Prerequisite: None, repeatable for credit**

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.

**SPRING PE**

**0.5 Credit/Semester**

**Grade: 9-12**

**Prerequisite: None, repeatable for credit**

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.

**INDIVIDUAL AND DUAL SPORTS**

**0.5 Credit/Semester**

**PE8012**

**Grade: 10-12**

**Prerequisite: Fall or Spring PE, Low Impact, or Strength and Conditioning**

This course is designed to provide students with the skills, knowledge, and experience necessary to participate in sports that focus on individual performance and small-team dynamics, in many lifetime sports. Unlike traditional team sports, this course emphasizes personal growth, self-reliance, and the development of skills that students can use independently or with one partner. By offering a diverse range of sports, students will learn how to improve their fitness, strategic thinking, and self-motivation, as well as develop sportsmanship and interpersonal skills in a competitive yet collaborative setting.

**LOW IMPACT CIRCUIT TRAINING**

**0.5 Credit/Semester**

**PE8004**

**Grade: 10-12**

**Prerequisite: None, repeatable for credit**

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, taekwondo, core strengthening, step aerobics, power walking, kickboxing, Pilates, yoga and cardiovascular training.

**APPLIED TEAM SPORTS**

**0.5 Credit/Semester**

**Grade: 10-12**

**Prerequisite: 2 PE Credits, Sophomores with approval only**

This advanced course is designed for students who have a solid foundation in team sports and wish to elevate their skills in a competitive and strategic setting. Emphasizing high-level gameplay, the curriculum covers advanced tactics, leadership roles, and a deep dive into team dynamics across a variety of sports. Through intense practice and strategic challenges, students will refine their abilities, develop leadership qualities, and enhance their understanding of teamwork. This course prepares students to excel in competitive environments while promoting personal growth and fostering strong team collaboration. (Prerequisite: PE 1 and/or PE 2 with teacher recommendation)

**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**  
**PE8014**

**0.5 Credit/Semester**

**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**  
**PE8008**

**0.5 Credit/Semester**

**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.

**WORLD LANGUAGE**

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

Course Name	Credit	Grades Offered	Prerequisite	Type of Credit
Spanish 1	1	9-12		Elective
Spanish 2	1	9-12	Spanish 1	Elective
Spanish 3	1	10-12	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/Print Reading	0.5	9-12	Algebra 1 or concurrent enrollment	Elective Technology
Intro to Skilled Trades <i>(formerly Intro to Ind Tech)</i>	0.5	9-12	Algebra 1 or concurrent enrollment <i>Course fee of \$50/semester</i>	Elective Technology
Geometry in Construction	2	9-10	Algebra 1 <i>Course fee of \$25/Semester</i>	Tech Math
Drafting/Architecture I	1	10-12	Drafting/Print Reading	Elective Technology
Drafting/Computer Aided Drafting (CAD)	1	10- 12	Drafting/Print Reading	Elective Technology
Architectural Design I	0.5	11-12	Drafting Architecture I or Drafting/CAD <i>Course fee of \$20/Semester</i>	Elective Technology
Architectural Design II	0.5	11-12	Architectural Design I <i>Course fee of \$20/Semester</i>	Elective Technology
Drafting/Architecture II	0.5	11- 12	Drafting/CAD or Drafting/Architecture I or Architecture II	Elective Technology
Woodworking Principles	1	10-12	Introduction to Industrial to Skilled Trades <i>Course fee of \$50/Semester</i>	Elective Technology
Advanced Materials and Fabrication <i>(formerly Projects in CAD)</i>	1	12	Principles of Woodworking <i>Course fee of \$50/semester</i>	Elective Technology
Hand and Power Tools	0.5	9-12	Introduction to Skilled Trades	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
Aviation Fundamentals	0.5	9-12	None	Elective Technology
Aerospace Engineering	1	11-12	Principles of Engineering <i>*only offered on even years (ie 2026-2027)</i>	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
CAPSTONE: Design, Aviation, and Production	1	12	All Seniors will enroll in an Academy Capstone Experience course	Elective

ARCHITECTURE, DESIGN AND CONSTRUCTION SECTOR COURSE SEQUENCE				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	<b>Architecture and Design</b>			
<b>ACADEMY PREP</b> Career and Life Planning	Drafting/Print Reading (0.5)	Drafting/Architecture 1 (1)  Drafting/CAD (1)	Architectural Design I (0.5) and Architectural Design II (0.5)  Optional KCKCC TEC	Drafting/Architecure II 0.5  Capstone Experience (1.0)  Optional KCKCC TEC

	Construction			
	Intro to Skilled Trades (0.5)	Geometry in Construction (2)	Woodworking Principles(1)  Optional KCKCC TEC	Advanced Materials and Fabrication (1)  Capstone Experience (1.0)  Optional KCKCC TEC

**DRAFTING/PRINT READING**

**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.

**INTRODUCTION TO SKILLED TRADES (formerly Intro to Ind Tech)**

**0.5 Credit/Semester**

**DR2006**

**Course Fees: \$50/Semester**

**Grade: 9-12**

**Prerequisite: Algebra 1 or concurrently enrolled in Algebra 1**

An introductory level course designed to instruct students in the basic skills necessary to all occupations in the Construction, Manufacturing, and Transportation career clusters

**GEOMETRY IN CONSTRUCTION**

**2 credits/Year**

**DR206A (SEM 1) and DR206B (SEM 2)**

**Course Fees: \$25/Semester**

**Grade: 9-11**

**Prerequisite: 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.

**DRAFTING/ARCHITECTURE I**

**1 Credit/Year**

**DR214A**

**Grade: 10-12**

**Prerequisite: Drafting/Print Reading**

Architectural drafting courses introduce students to and help them refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from architectural applications. These courses are intended to help students develop general drafting skills but place a particular emphasis on interior and exterior residential (and light commercial) design, site orientation, floor plans, electrical plans, design sketches, and presentation drawings. In addition, students may prepare scale models.

**ARCHITECTURAL DESIGN I**

**0.5 Credit/Year**

**DR223 (SEM 1)**

**Grade: 11-12**

**Course Fees: \$20/Semester**

**Prerequisite: Drafting**

Students will gain the knowledge, understanding, and skills needed to enter a career in architecture or construction or prepare a foundation toward postsecondary degrees in architecture, construction sciences, drafting, landscape architecture, or product design. Coursework will emphasize the understanding and applying of design, design history, techniques, and tools related to the hand production of drawings, renderings, and scaled models for architectural, landscape architectural, product design, and construction sciences purposes

**ARCHITECTURAL DESIGN II**

**0.5 Credit/Year**

**DR224 (SEM 2)**

**Grade: 11-12**

**Prerequisite: Drafting**

Students will gain advanced knowledge and analyzing skills needed to enter a career in architecture or construction or prepare a foundation toward postsecondary degrees in architecture, construction sciences, drafting, landscape architecture or product design. Design Principles in Architecture II will build on the foundations of Design Principles in Architecture I, through advanced analysis and evaluation of design, design history, techniques, and tools related to the hand production of drawings, renderings, and scaled models for architectural, landscape architectural, product design, and construction sciences purposes.

**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.

**DRAFTING/ARCHITECTURE II****0.5 Credit/Semester****DR2004****Grade: 11-12****Prerequisite: approval of instructor**

This is an advanced-level application course covering specific research-based topics in architectural design.

**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/Semester**

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.

**ADVANCED MATERIALS AND FABRICATION****1 Credit/Year****DR208A (SEM 1) AND DR208B (SEM 2)****Grade: 11-12****Prerequisite: Principles of Woodworking, Drafting/Print Reading Recommended****Course fee: \$50/Semester**

An advanced comprehensive course designed to instruct students in skills pertaining to rough construction and finish work.

**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.

<b>ENGINEERING SECTOR COURSE SEQUENCE</b>				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>

<b>ACADEMY PREP</b> 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)

### **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
	<b>Maintenance</b>			
	Intro to Skilled Trades (0.5)	Hand and Power Tools (0.5)	KCKCC Electrical Technology Program  Foundational Electronics Digital Electronics	Capstone Experience (1.0)  Optional KCKCC Electrical Technology Program  Garmin Internship

**INTRODUCTION TO SKILLED TRADES** (*formerly Intro to Ind Tech*)  
DR2006

**0.5 Credit/Semester**

**Course Fee: \$50/Semester**  
**Grade: 9-12**

**Prerequisite: Algebra 1 or concurrently enrolled in Algebra 1**

An introductory level course designed to instruct students in the basic skills necessary to all occupations in the Construction, Manufacturing, and Transportation career clusters

**HAND AND POWER TOOLS**  
ST105B

**0.5 Credit/Semester**

**Grade: 9-12**

**Prerequisite: Intro to Industrial Tech**

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

**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**  
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 Project for graduation.

AERONAUTICS AND AVIATION COURSE SEQUENCE				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade

<b>ACADEMY PREP</b> Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	<b>Aeronautical Engineering</b>			
	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)
	<b>Avionics Strand</b>			
	Intro to Skilled Trades (0.5)	Aviation Fundamentals (0.5) Hand and Power Tools	KCKCC Electronics Engineering Technology Program (4)	Capstone Experience (1.0) Garmin Internship Unmanned Aircraft Systems (1)

**INTRODUCTION TO SKILLED TRADES** (*formerly Intro to Ind Tech*)

**0.5 Credit/Semester**

**DR2006**

**Course Fee: \$50/Semester**

**Grade: 9-12**

**Prerequisite: Algebra 1 or concurrently enrolled in Algebra 1**

An introductory level course designed to instruct students in the basic skills necessary to all occupations in the Construction, Manufacturing, and Transportation career clusters

**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.

**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.

**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.

## 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
Financial Literacy (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 <i>*only offered on odd years (ie 2025-2026)</i>	Elective
Advanced Accounting	1	11-12	Accounting 1 <i>*only offered on even years (ie 2026-2027)</i>	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
<b>INCubator:</b> Applied Business Development	1	11-12	Business Management Entrepreneurship or concurrently enrolled <i>*Entrepreneurship students</i>	Elective
<b>Pirate's Bay Cafe:</b> Applied Business Development	1	11-12	Business Management Entrepreneurship or concurrently enrolled <i>*Business Management students</i>	Elective
<b>ACCELERator:</b> Advanced Business Management and Entrepreneurship Workplace Experience	1	12	INCubator: Applied Business Development <i>*Entrepreneurship students</i>	Elective
<b>Pirate's Bay Cafe:</b> Advanced Business Management and Entrepreneurship Workplace Experience			Pirate's Bay Cafe: Applied Business Development	Elective
Business Law	0.5	10-12	Introduction to Law, Public Services, and Security, Business Essentials <i>*only offered on even years (ie 2026-2027)</i>	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	11-12	Principles of Marketing	Elective
<b>Daktronics CONTENT creation:</b> Advanced Marketing Workplace Experience	1	12	Marketing Applications	Elective
<b>Daktronics TECH BOARD:</b> Integrated Marketing Applications	1	12	Marketing Applications	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

<b>ACADEMY PREP</b> 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> <i>9th or 10th</i>	Accounting (1) <i>Business Communications (0.5)</i> <i>9th or 10th</i>	Advanced Accounting  Financial Literacy (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.*

**FINANCIAL LITERACY (Consumer Ed 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.

**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)**

*\*only offered on odd years (ie 2025-2026)*

**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)***\*only offered on even years (ie 2026-2027)***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.

<b>ENTREPRENEURSHIP</b> Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
<b>ACADEMY PREP</b> Career and Life Planning	Business Essentials (0.5)	Entrepreneurship (0.5)	<b>INCubator:</b> Applied Business Development (1)	<b>ACCELERator:</b> Advanced Business Development and Entrepreneurship (1)  Capstone Experience (1)
	Business Management (0.5)  <i>Business Communications (0.5)</i> <i>9th or 10th</i>	Principles of Marketing (1)  <i>Business Communications (0.5)</i> <i>9th or 10th</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.

**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.

**INCubator: Applied Business Development****1 Credit/Year**

**BU121C (SEM 1) AND BU121D (SEM 2)****Grade: 11-12****Prerequisites: Business Management and Entrepreneurship**

The INCubatoredu course lets students generate ideas for problem-solving apps and products. Teams develop business plans and learn about marketing, product design, and financial aspects of the project. Students then collaborate with community business leaders on various aspects of their projects.

**ACCELERator: Advanced Business Management and Entrepreneurship****1 Credit/Year****BU122C (SEM 1) AND BU122D (SEM 2)****Grade: 12****Prerequisite: INCubator: Applied Business Development**

As a complement to INCubatoredu, the ACCELERatoredu experience transitions businesses founded in year one into sustainable, functioning ventures. The experience models a real-life start-up accelerator focused on developing teams through mentorship, education, connections, and accountability to launch a company.

**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.

<b>Business Management</b> Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
<b>ACADEMY PREP</b> 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)   <i>Business Communications (0.5)</i> <i>9th or 10th</i>	Pirate's Bay Cafe: Applied Business Development (1)  Financial Literacy (0.5)  Sports/Entertainment Marketing (0.5)	Pirate's Bay Cafe: Advanced Business Management and Entrepreneurship (1)  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**

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: 9-12****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.

**FINANCIAL LITERACY (Consumer Ed 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.

**PIRATE'S BAY CAFE: 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.

**PIRATE'S BAY CAFE ADVANCED BUSINESS MANAGEMENT & ENTREPRENEURSHIP EXPERIENCE****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****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.

**MARKETING AND SPORTS MARKETING**

Sector Course Sequence

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>ACADEMY PREP</b> 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> <i>9th or 10th</i>	Principles of Marketing (1)  Sports and Entertainment Marketing (0.5)  <i>Business Communications (0.5)</i> <i>9th or 10th</i>	Marketing Applications (1)  Consumer Education and Personal Finance (0.5)	Advanced Marketing-Content Creation for Daktronics (1) OR Integrated Marketing Applications - Daktronics Board team  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.

**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.

**DAKTRONICS CONTENT CREATION: ADVANCED MARKETING  
WORKPLACE EXPERIENCE****1 Credit/Year****Grade: 12****Prerequisite: Marketing Applications**

Marketing—Workplace Experience courses provide students with work experience in fields related to marketing. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace.

**DAKTRONICS BOARD TEAM: INTEGRATED MARKETING APPLICATIONS****1 Credit/Year****Grade: 12****Prerequisite: Marketing Applications**

Integrated Marketing Applications is an Application-Level course. Through this course, students will be actively engaged in utilizing technology and technology applications in the design, production, and implementation of marketing strategies. Students will create print, multi-media, and electronic materials used in the marketing process. Application-level activities will be centered around: advertising, branding, graphic design, packaging, promotion, publicity, sponsorship, public relation, and sales promotion.

**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.

## ARTS AND MEDIA ACADEMY

ALL ACADEMY COURSES				
Course Name	Credit	Grade(s) Offered	Prerequisite	Type of Credit
Introduction to Web and Digital Media	0.5	9-12	None	Elective Technology
Drawing for Designers	0.5	9-12	None <i>Course fee of \$25/Semester</i>	Elective Fine Arts Technology
Journalism and Mass Media Communications	0.5	9-12	Introduction to Web and Digital Media and Drawing by Designers (or current Enrollment)	Elective
Photo Imaging	0.5	9- 12		Elective Technology
Graphic Design	1	9-12	Introduction to Web and Digital Media and Drawing by Designers (or current Enrollment)	Elective Fine Arts Technology
Graphic Design II: Piper Graphics Year 1	1	11-12	Graphic Design	Elective Fine Arts Technology
Applied Graphic Design: Piper Graphics Year 2	1	112	Graphic Design II	Elective Technology
Media Design and Production: Yearbook 1	1	11-12	Intro to Web and Digital Media, Drawing by Designers, Journalism and Media Communications, Photo Imaging	Elective Technology
Advanced Media Design and Production: Yearbook 2	1	12	Media Design and Production: Yearbook 1	Elective Technology
Audio/Video Production I: Broadcasting	0.5	11-12	Intro to Web and Digital Media, Drawing by Designers, Journalism and Media Communications	Elective Technology
Audio/Video Production II: Broadcasting	1	12	Audio/Video Production 1: Broadcasting	Elective Technology
3D Animation	1	10-12	Intro to Web and Digital Media and Drawing by Designers <i>*only offered on even years (ie 2026-2027)</i>	Elective Technology
Applied Game Design	1	11-12	3D Animation	Elective Technology
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
Art 1	0.5	9-12	None <i>Course fee of \$25/Semester</i>	Elective Fine Arts
Art 2	0.5	9-12	Art 1 <i>Course fee of \$25/Semester</i>	Elective Fine Arts
Drawing	0.5	9-12	Art 1 <i>Course fee of \$25/Semester</i>	Elective Fine Arts
Painting	0.5	10-12	Art 2 <i>Course fee of \$25/Semester</i>	Elective Fine Arts
Ceramics & Sculpture 1	0.5	9-12	Art 2 <i>Course fee of \$25/Semester</i>	Elective Fine Arts
Ceramics & Sculpture 2	0.5	10-12	Ceramics & Sculpture 1 <i>Course fee of \$25/Semester</i>	Elective Fine Arts
Studio Studies	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 <i>*only offered on odd years (ie 2025-2026)</i>	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
<b>ACADEMY PREP</b> Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	<b>Yearbook</b>			
	Intro to Web and Digital Media (0.5)  Drawing by Designers (0.5)	Journalism and Media Communications (0.5)  Photo Imaging (0.5)	Media Design and Production Yearbook 1 (1)	Advanced Media Design and Production Yearbook 2 (1)  Capstone Experience (1)
	<b>Broadcasting</b>			
	Intro to Web and Digital Media (0.5)  Drawing by Designers (0.5)	Journalism and Media Communications (0.5)	Audio/Video Production (1)	Capstone Experience (1)  Audio/Video Production II (1)

### **INTRODUCTION TO WEB AND DIGITAL MEDIA**

**0.5 Credit/Semester**

**Grade: 9-12**

**Prerequisite: None**

Web Design courses explore the creative and conceptual aspects of designing and developing interactive, multimedia web sites that emphasize the principles of graphic design, interactivity, and usability. Students learn about a variety of visual, navigational, and structural approaches to navigation systems, visual hierarchy, basic animations, image preparation and file transferring protocols. Topics may include conceptual development and structure, interactivity, and design aesthetics; appreciation and analysis development, construction, and programming of virtual, multimedia, and interactive experiences; their applications in Internet communications; and contextual, cultural, and historical aspects and considerations.

### **DRAWING BY DESIGNERS**

**0.5 Credit/Semester**

**DM0900**

**Grade: 9-12**

**Course Fees: \$25**

**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.

### **JOURNALISM AND MEDIA COMMUNICATIONS**

**0.5 Credit/Semester**

**TE3001**

**Grade: 10-12**

**Prerequisite: Introduction to Web and Digital Media, Drawing for Designers/ concurrent enrollment**

Journalism and Media Communications enable students to understand and critically evaluate the role of media in society. Course content typically includes investigating visual images, printed material, and audio segments as tools of information, entertainment, and communication in relation to media. Topics include an exploration of the role media and the communications industry have in society, the development of technical skills related to journalistic writing and interviewing, and an understanding of the ethical and legal issues related to the field.

### **PHOTO IMAGING**

**0.5 Credit/Semester**

**DM1001**

**Grade: 9-12**

**Prerequisite: None**

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.

### **MEDIA DESIGN AND PRODUCTION (YEARBOOK 1)**

**1 Credit/Year**

**TE3005 AND TE3006****Grade: 11-12****Prerequisite: Journalism and Media Communications, Photo Imaging or concurrently enrolled**

Media Design and Production provides students with a simulated workplace experience allowing students the opportunity to apply fundamental skills learned from graphic design and production to create multi-media projects for public presentation. Topics include developing a production schedule, working as a team, utilizing composition principles, and embedding audio, video, and interactive media into presentation medias.

**ADVANCED MEDIA DESIGN AND PRODUCTION (YEARBOOK 2)****1 Credit/Year****TE307A AND TE307B****Grade: 11-12****Prerequisite: Media Design and Production (Yearbook 1)**

In addition to listed technical competencies Local Education Agencies are encouraged to develop Personalized Learning coursework representative of explicit objectives measured against specific target employment skills that are not available in other courses. These should be enumerated in addition to those listed below. Additional competencies may reflect the work environment, workplace experience and/or the essential skills addressed reflective of previous coursework.

**AUDIO/VIDEO PRODUCTION I****0.5 Credit/Year****DM1002****Grade: 11-12****Prerequisite: Journalism and Media Communications**

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.

**AUDIO/VIDEO PRODUCTION II****1 Credit/Year****DM103A (SEM 1) and DM 103B (SEM 2)****Grade: 11-12****Prerequisite: Audio/Video Production I**

Audio Video Production II applies the technical skills learned in Audio Video Production I 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 the course, but the experience of the entire process in, to include planning the presentation, setting up the studio (if applies), acting as videographer and editor to make it fluid and seamless.

**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.

<b>GRAPHIC DESIGN</b> Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>ACADEMY PREP</b> Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Intro to Web and Digital Media (0.5)	Graphic Design (1)	Graphic Design II (1) <i>*PIper Graphics*</i>	Applied Graphid Design (1) <i>*PIper Graphics*</i>
	Drawing by Designers			Capstone Experience (1)

**INTRODUCTION TO WEB AND DIGITAL MEDIA****0.5 Credit/Semester****Grade: 9-12****Prerequisite: None**

Web Design courses explore the creative and conceptual aspects of designing and developing interactive, multimedia web sites that emphasize the principles of graphic design, interactivity, and usability. Students learn about a variety of visual, navigational, and structural approaches to navigation systems, visual hierarchy, basic animations, image preparation and file transferring protocols. Topics may include conceptual development and structure, interactivity, and design aesthetics; appreciation and analysis development, construction, and programming of virtual, multimedia, and interactive experiences; their applications in Internet communications; and contextual, cultural, and historical aspects and considerations.

**DRAWING BY DESIGNERS****0.5 Credit/Semester****DM0900****Grade: 9-12****Course Fees: \$25****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****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 II (Piper Graphics Year 1))****1 Credit/Year****TE3109 (SEM 1) and TE3110 (SEM 2)****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

**APPLIED GRAPHIC DESIGN (PIPER GRAPHICS YEAR 2)****1 Credit/Year****TE3111 (SEM 1) and TE3112 (SEM 2)****Grade: 112****Prerequisite: Graphic Design II**

The goal of this course is to provide the student with work-based learning opportunities in graphic design. It will be focused on applying technical skills to solve real-world graphic design problems. 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. In addition, a portfolio, digital portfolio archive, self-promo, resume and business ensemble will be produced. Instruction in interviewing techniques and employment searches will also be provided.

**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.

<b>ANIMATION AND GAMING COURSE SEQUENCE</b>				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
<b>ACADEMY PREP</b> Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Introduction to Web and Digital Media (0.5)	Drawing by Design (0.5)	3D Animation (1)	Applied Game Design (1) Capstone Experience (1)

### **INTRODUCTION TO WEB AND DIGITAL MEDIA**

**0.5 Credit/Semester**

**Grade: 9-12**

**Prerequisite: None**

Web Design courses explore the creative and conceptual aspects of designing and developing interactive, multimedia web sites that emphasize the principles of graphic design, interactivity, and usability. Students learn about a variety of visual, navigational, and structural approaches to navigation systems, visual hierarchy, basic animations, image preparation and file transferring protocols. Topics may include conceptual development and structure, interactivity, and design aesthetics; appreciation and analysis development, construction, and programming of virtual, multimedia, and interactive experiences; their applications in Internet communications; and contextual, cultural, and historical aspects and considerations.

### **DRAWING BY DESIGNERS**

**0.5 Credit/Semester**

**DM0900**

**Grade: 9-12**

**Course Fees: \$25**

**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.

### **3D ANIMATION**

**1 credit/Year**

**CI104A (SEM 1) AND CI104B (SEM 2)**

*\*only offered on even years (ie 2026-2027)*

**Grade: 10-12**

**Prerequisite: Introduction to Web and Digital Media**

The 3D Animation course explores the creative and conceptual aspects of designing and producing animated images for storytelling and multimedia presentations including dramatic narratives; artistic and experimental presentations and installations; and ambient, interactive, immersive and performance media. Topics may include motion graphics; compositing and visual effects; 2D and 3D animation; timing and spacing; aspect ratio; video editing; animation physics and expressions; pre- and post-production methods, tools, and processes; animation presentation, transmission, distribution, and marketing; and contextual, cultural, and historical aspects and considerations.

### **APPLIED GAME DESIGN**

**1 credit/Year**

**CI105A (SEM 1) AND CI105B (SEM 2)**

**Grade: 11, 12**

**Prerequisite: 3DAnimation**

The 3D Animation course explores the creative and conceptual aspects of designing and producing animated images for storytelling and multimedia presentations including dramatic narratives; artistic and experimental presentations and installations; and ambient, interactive, immersive and performance media. Topics may include motion graphics; compositing and visual effects; 2D and 3D animation; timing and spacing; aspect ratio; video editing; animation physics and expressions; pre- and post-production methods, tools, and processes; animation presentation, transmission, distribution, and marketing; and contextual, cultural, and historical aspects and considerations.

### **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..

<b>PERFORMING ARTS</b> Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
<b>ACADEMY PREP</b> Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	<b>Vocal</b>			
	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
	<b>Instrumental</b>			
	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
	<b>Performing</b>			
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**

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**

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**

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***\*only offered on odd years (ie 2025-2026)***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.

<b>VISUAL ARTS</b> Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
<b>ACADEMY PREP</b> Career and Life Planning	Drawing by Designer (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)  Studio Studies (1)  Ceramics and Sculpture 2 (0.5)

**DRAWING BY DESIGNERS****0.5 Credit/Semester**

**DM0900****Grade: 9-12****Course Fees: \$25****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****Course Fees: \$25****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****Course Fees: \$25****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****Course Fees: \$25****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****Course Fees: \$25****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****Course Fees: \$25****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****Course Fees: \$25****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
Drawing by Designer	0.5	9-12	None	Elective
Apparel Production 1	0.5	10-12	Essentials of Fashion and Drawing by Designer <i>*only offered on odd years (ie 2025-2026)</i>	Elective
Apparel Production 2	0.5	11-12	Apparel and Production 1 <i>*only offered on even years (ie 2026-2027)</i>	Elective
Interior Design	0.5	10-12	Drawing by Designer and Essentials of Fashion <i>*only offered on odd years (ie 2025-2026)</i>	Elective
Drafting/Print Reading	0.5	9-12	Algebra 1 or concurrently enrolled	Elective
Drafting/Architecture I	1	10-12	Drafting/Print Reading	Elective
Fashion Trends	0.5	11-12	Apparel and Production 1 <i>*only offered on even years (ie 2026-2027)</i>	Elective
Fashion Apparel and Interior Design (FAID) Studio	1	12	Apparel Production 2, Drafting/Architecture 1	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 <i>Course fee of \$25/Semester</i>	Elective
Culinary Arts 2	0.5	11-12	Culinary Arts 1 <i>Course fee of \$25/Semester</i>	Elective
Culinary Applications	1	12	Culinary Arts 2	Elective
Financial Literacy	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
Foundations of Early Childhood Development	1	11-12	*on the KCKCC Tech Campus	Elective
Baking and Pastry 1	0.5	10-12	Business Essentials or Career and Life Planning (Academy Prep), Culinary Essentials <i>Course fee of \$25/Semester</i>	Elective
Baking and Pastry 2	0.5	11-12	Baking and Pastry 1 <i>Course fee of \$25/Semester</i>	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 <i>*only offered on odd years (ie 2025-2026)</i>	Elective
Entrepreneurship	0.5	10-12	Business Essentials	Elective
Foundations of Hospitality and Lodging	0.5	11-12	Foundations of Travel and Tourism <i>*only offered on even years (ie 2026-2027)</i>	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

<b>FASHION AND INTERIOR DESIGN</b> Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	<b>Fashion and Apparel</b>			
	Drawing by Designers (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 (1)
	<b>Interior Design</b>			
	Essentials of Fashion and Interior Design (0.5)  <i>*Drafting/Print Reading (0.5)</i> <i>*can be taken 9th or 10th grade</i>	Interior Design (0.5)  <i>*Drafting/Print Reading (0.5)</i> <i>*can be taken 9th or 10th grade</i>	Drafting/Architecture (1)	Capstone Experience (1)  : FAID Studio (1)
<b>ACADEMY PREP</b> Career and Life Planning				

### 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.

### DRAWING BY DESIGNERS

**0.5 Credit/Semester**

**DM0900****Grade: 9-12****Course Fees: \$25****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.

**DRAFTING/PRINT READNG****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***\*only offered on odd years (ie 2025-2026)***Grade: 10-12****Prerequisite: Essentials of Fashion and Design and Drafting/Print Reading**

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.

**DRAFTING/ARCHITECTURE I****1 Credit/Year****DR214A****Grade: 10-12****Prerequisite: Drafting/Print Reading**

Architectural drafting courses introduce students to and help them refine the technical craft of drawing illustrations to represent and/or analyze design specifications, using examples drawn from architectural applications. These courses are intended to help students develop general drafting skills but place a particular emphasis on interior and exterior residential (and light commercial) design, site orientation, floor plans, electrical plans, design sketches, and presentation drawings. In addition, students may prepare scale models.

**APPAREL PRODUCTION 1****0.5 credit/Year****FC1001***\*only offered on odd years (ie 2025-2026)***Grade: 10-12****Prerequisite: Essentials of Fashion and Drawing by Designers**

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: Apparel and Production 1**

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, Drafting/Architecture 1**

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.

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

**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.

**FINANCIAL LITERACY (Consumer Ed 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)***\*Course offered on odd years (2025-2026)***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.

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

**COURSE FEES: \$25/SEMESTER**

**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**

**COURSE FEES: \$25/SEMESTER**

**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**

**Course Fees: \$25/Semester**

**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 21<sup>st</sup> 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.

<b>TRAVEL AND TOURISM</b> Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
<b>ACADEMY PREP</b> Career and Life Planning	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**

*\*only offered on odd years (ie 2025-2026)*

**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.

<b>EARLY CHILDHOOD EDUCATION</b>				
Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
<b>ACADEMY PREP</b> 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)	Foundations of Early Childhood Development (1) <i>*KCKCC Tech Course</i>	Capstone Experience (1) : Early Childhood

		Family Studies (0.5)	Teaching as a Career (1) <i>*Dual Credit Offered</i>	Internship (Community and Career Connections) (1)
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## **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.

## **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

## **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.

## **FOUNDATIONS OF EARLY CHILDHOOD DEVELOPMENT**

**1 Credit/Year**

**KCKCC Course Code: ECED 0110 Intro to Early Childhood**

**Grade: 11-12**

**Prerequisite: Teaching Observation**

Foundations to Early Childhood Education provides students with knowledge of developing the physical, intellectual, emotional, and social growth of young children in a variety of childcare settings. Formerly Child Care. Enrollment must be done with the Coordinator of KCKCC Tech Programs. Please make sure to follow those enrollment guidelines.

## **TEACHING AS A CAREER**

**1 Credit/Semester**

**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.*

## **EARLY CHILDHOOD EDUCATION INTERNSHIP**

**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: 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
Introduction to Agriculture	0.5	9-12	None	Elective
Animal Science	0.5	10-12	Environmental Science	Elective
Advanced Animal Science	0.5	11-12	Animal Science	Elective
Plant and Soil Sciences	0.5	10-12	Environmental Science	Elective
Horticulture	1	12	Plant and Soil Sciences	Elective
Horticulture, Floriculture, and Greenhouse Management	1	12	Horticulture	Elective
Business Essentials	0.5	9-12	None	Elective
Business Communications	0.5	9-12	None	Elective
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	Anatomy and Physiology <i>*only offered on odd years (ie 2025-2026)</i>	Elective
Sports and Entertainment Marketing	0.5	10-12	Business Essentials	Elective
Care of Athletes	0.5	10-12	None	Elective
Coaching and Leadership	0.5	10-12	Intro to Recreational Sports, Intro to Officiating	Elective
Introduction to Healthcare	0.5	9-12	None	Elective
Anatomy and Physiology	1	10-12	Biology or Honors Biology	Science
Medical Terminology	1	11-12	Intro to Healthcare and Anatomy & Physiology OR Princ. BioMed and Human Body Systems <i>*only offered on even years (ie 2026-2027)</i>	Elective
Sports Medicine 2	1	11-12	Sports Medicine 1 <i>*only offered on even years (ie 2026-2027)</i>	Elective
Principles of Biomedical Science	1	9-12	Biology 1 or concurrent enrollment in Biology 1 <i>*approved NCAA course</i>	Elective
Human Body Systems	1	10-12	Principles of Biomedical Science <i>*approved NCAA course</i>	Elective
Medical Interventions	1	11-12	Human Body Systems <i>*approved NCAA course</i>	Elective
Biomedical Innovation	1	12	Medical Interventions <i>Course fee of \$85/Semester for CCMA certification</i>	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
<b>ACADEMY PREP</b> Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	<b>Animal Sciences</b>			
	Environmental Science (1)  <i>*Intro to Agriculture if offered</i>	Animal Science (1)	Advanced Animal Science (1)  Chemistry (1)	Animal Health/Vet Tech (1)  Capstone Experience (1)
	<b>Plant Sciences</b>			
	Environmental Science (1)  <i>*Intro to Agriculture if offered</i>	Plant and Soil Science(1)	Greenhouse Production and Management (1)  Chemistry (1)	Capstone Experience (1)  Application of Horticulture (1)

### 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.

### INTRODUCTION TO AGRICULTURE

0.5 Credit/Semester

Grades 9-12

Prerequisite: None

Introduction to Agriculture courses survey a wide array of topics within the agricultural industry, exposing students to the many and varied types of agriculture and livestock career opportunities and to those in related fields (such as natural resources). These courses serve to introduce students to the agricultural field, providing them an opportunity to identify an area for continued study or to determine that their interest lies elsewhere. They often focus on developing communication skills, business principles, and leadership skills.

### 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.

**HORTICULTURE****1 Credit/Year****HS104A (SEM 1) AND HS104B (SEM 2)****Grade: 11-12****Prerequisite: Intro to Agriculture, Plant and Soil Sciences**

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.

**Horticulture, Floriculture, and Greenhouse Management****1 credit/Year****HS105A (SEM 1) AND HS105B (SEM 2)****Grade: 12****Prerequisite: Horticulture**

Plant Identification and floral design are necessary knowledge skills along with the selection of greenhouse plants and management of greenhouses for production of plants and flowers in the industry.

**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.

<b>Health Sciences and Biomedical Sector</b>				
Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
<b>ACADEMY PREP</b> Career and Life Planning	<b>Health Sciences</b>			

	Introduction to Healthcare (0.5)	Anatomy and Physiology (1)	Medical Terminology (0.5)	Health Careers (CNA) at KCKCC Capstone Experience (1)
	<b>Biomedical</b>			
	Principles of Biomedical Science (1)	Human Body Systems (1)	Chemistry (1) Medical Interventions (1)	Capstone Experience (1) Biomedical Innovation (1) CCMA Cert Program

**INTRO TO HEALTHCARE  
HS1000**

**0.5 Credit/Semester**

**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

**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.

**MEDICAL TERMINOLOGY**

**0.5 Credit/Year**

**HS1006**

*\*only offered on even years (ie 2026-2027)*

**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.

**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**

**Course Fees: \$85/semester**

**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. *In this course, students will prep to take their Certified Clinical Medical Aide (CCMA) Certification Exam.*

**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.

<b>Sports Recreation and Programming Sector</b>				
Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
<b>ACADEMY PREP</b> Career and Life Planning	Intro to Recreational Sports (0.5)	Introduction to Officiating (0.5)	Care of Athletes (0.5)	Capstone Experience (1)
	Nutrition and Wellness (0..5)	Business Communications (0.5)	Coaching and Leadership (0.5)	

	Business Essentials (0.5)	Sports and Entertainment Marketing (0.5)		
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## **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.

## **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.*

## **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 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.

**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.

**Coaching and Leadership****0.5 Credit/Semester****Grade: 9-12****Prerequisite: Intro to Recreational Sports, Intro to Officiating, Sports Recreation and Programming Sector students provided preference**

This course is designed to equip students with the essential knowledge, skills, and practical experience required to become effective sports coaches. Emphasizing the development of coaching techniques, sports strategy, practice planning, and athlete motivation. Throughout the course, students will engage in hands-on experiences such as designing and leading practice sessions, analyzing game performance, and peer coaching. These opportunities allow students to apply classroom knowledge in real-world settings. The course is particularly suited for students interested in pursuing a coaching career, developing leadership skills, or gaining a deeper understanding of sports management.

**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.

<b>SPORTS MEDICINE AND EXERCISE SCIENCE</b>				
Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
<b>ACADEMY PREP</b> Career and Life Planning	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***\*only offered on odd years (2025-2026)***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***\*only offered on even years (ie 2026-2027)***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**

<b>ALL ACADEMY COURSES</b>				
<b>Course Name</b>	<b>Credit</b>	<b>Grade(s) Offered</b>	<b>Prerequisite</b>	<b>Type of Credit</b>
Introduction to Law, Public Safety, Corrections, and Security	0.5	9-12	None	Elective SS elective
Business Essentials	0.5	9-12	None	Elective
Medical Terminology	0.5	10-12		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 <i>*only offered on odd years (2025-2026)</i>	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 <i>*only offered on odd years (2025-2026)</i>	Elective
Intro to Criminal Justice	0.5	11-12	Intro to Law, Public Services, and Security <i>*only offered on odd years (2025-2026)</i> <i>*offered as a dual credit</i>	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	11-12	Introduction to Emergency Medical Services	Elective
Fire Science 2	1	11-12	Fire Science 1	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

<b>FORENSIC SCIENCE</b> Sector Course Sequence				
<b>8th Grade</b>	<b>9th Grade</b>	<b>10th Grade</b>	<b>11th Grade</b>	<b>12th Grade</b>
<b>ACADEMY PREP</b> Career and Life Planning	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
	Introduction to Law	Medical Terminology	Forensic Science 1 (1)	Forensic Science 2 (1)

	Public Services and Security (0.5)	(0.5) Chemistry (1) 10th or 11th		Capstone Experience (1)
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**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.

**MEDICAL TERMINOLOGY**

**0.5 Credit/Year**

**HS1006**

**Grade: 11-12**

**Prerequisite:**

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.

**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 (i.e., Forensic Anthropology, Forensic Medicine, Medical Examiner).

**FORENSIC SCIENCE 2**

**1 Credit/Semester**

**PS1002**

*\*only offered on odd years (2025-2026)*

**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.

<b>LAW AND PUBLIC SERVICES</b> Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	Introductory Academy Course	Technical Level Academy Course	Application Level Academy Course	Capstone Experience Options
<b>ACADEMY PREP</b> Career and Life Planning	<b>Law</b>			

	Introduction to Law Public Safety, Corrections, and Security (0.5)  Business Essentials (0.5)	Business Law (0.5) or Practical Law (0.5)	Intro to Criminal Justice (0.5)  Business Law (0.5) or Practical Law (0.5)	Foundations in Law (1)  Capstone Experience (1)  AP Government highly recommended
	<b>Fire/EMS</b>			
	Introduction to Law Public Safety, Corrections, and Security (0.5)	Anatomy & Physiology (1)  Introduction to Medical Services (0.5)  Medical Terminology	Public Safety Physical Education (1)  Fire Science 1 (1)	Fire Science 2 (1)  Capstone Experience (1)  Optional KCKCC Fire Science
	<b>Police</b>			
Introduction to Law Public Safety, Corrections, and Security (0.5)	Introduction to Medical Services (0.5)  Medical Terminology (0.5)	Intro to Criminal Justice (0.5)  Public Safety Physical Education (1)  Forensic Science (1)	Capstone Experience (1)  KCKPD 911 Intake Call Internship or KCKPD Correctional Cadet Internship or 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 ) 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****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.

**0.5 Credit/Semester***\*only offered on odd years (2025-2026)***INTRODUCTION TO CRIMINAL JUSTICE via Baker University****Baker Course Code: CJ100****Grade 11-12****Prerequisites:** Intro to Law, Public Safety, Corrections and Security

This course introduces students to the various processes used to prevent and control crime, as well as to examine the nature, extent, and implications of these processes on crime and American society. The bulk of this course will focus on explanations for why and how the stages of the criminal justice system handle crime and offenders. This is coupled with a goal to inform students on practical aspects of the criminal justice system.

**0.5 Credit/Semester***\*only offered on odd years (2025-2026)***FOUNDATIONS IN LAW****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.

**1 Credit/Year****INTRODUCTION TO EMERGENCY MEDICAL SERVICES****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.

**0.5 Credit/Semester****MEDICAL TERMINOLOGY****HS1006****Grade: 11-12****Prerequisite:**

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.

**0.5 Credit/Year****FIRE SCIENCE I****PS1006 (SEM 1) and PS1007 (SEM 2)****Grade: 10-12****Prerequisite: Introduction to Medical Services**

The first of two courses designed to provide students with the knowledge and skills to obtain a Fire Fighter I national certification.

**1.0 credit/Year****FIRE SCIENCE II****Prerequisite: Fire Science I****Grade: 11-12**

The second of two courses is designed to provide students with the knowledge and skills to obtain a Fire Fighter I national certification.

**1.0 credit/Year****CAPSTONE: PUBLIC SERVICES****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****1 credit/Year**

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.

<b>TEACHING AND TRAINING</b> Sector Course Sequence				
8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
<b>ACADEMY PREP</b> 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) Psychology (0.5)	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, admin approval, 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. Please review the contract for specific rules that apply to this course.

**SENIOR RELEASE****0 Credit/Semester****Grade: 12****Prerequisite: Fill out application and turn in during enrollment process in junior year**

Please review Senior Release contract for all rules; several are highlighted below

- 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
- Students cannot be in the running for Val/Sal or the Latin Honors systems if they have Senior Release