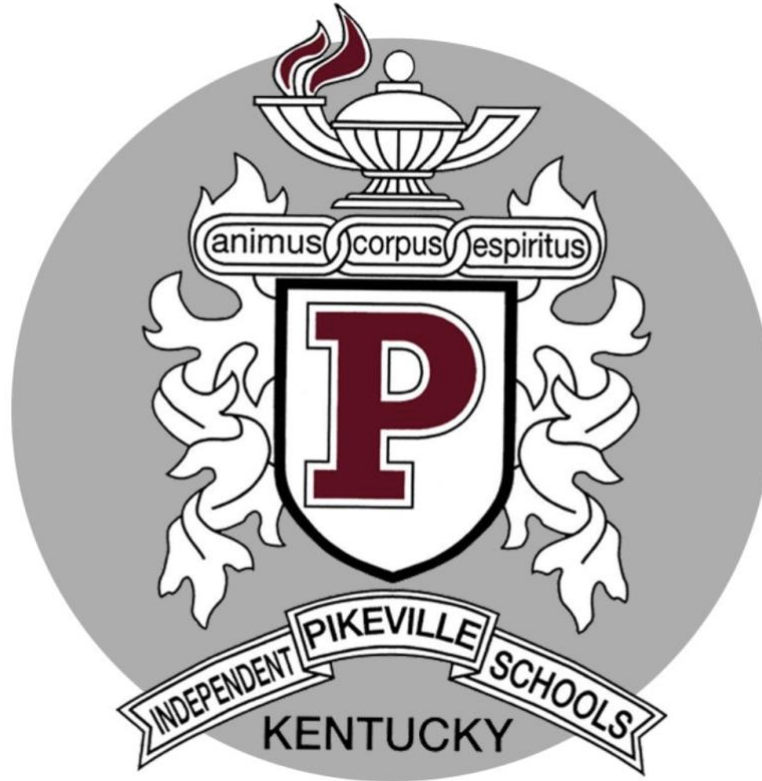


PIKEVILLE HIGH SCHOOL



PROGRAM OF STUDIES

2021 - 2022

**PIKEVILLE HIGH SCHOOL
120 CHAMPIONSHIP DRIVE
PIKEVILLE, KY 41501
(606) 432-0185**

**GUIDANCE OFFICE
(606) 437-5715**

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PIKEVILLE HIGH SCHOOL GRADUATION REQUIREMENTS

Course Type	Credits Required	Courses
English	4	English 9 English 10 or Honors English 10 English 11 or AP English Language or ENG111/ENG 112 English 12 or AP English Literature or ENG200/ENG 251
Science	3	Intro Physics w/Earth/Space or Honors IPES Intro Chemistry w/Earth/Space or Honors ICES Intro Biology w/Earth/Space or Honors IBES (Class of 2022 science requirements—1 credit life science, 1 credit earth/space science, and 1 credit of physical science.)
Math	3 However, students must take a math class each year.	Algebra I or Honors Algebra I Algebra II or Honors Algebra II Geometry or Honors Geometry Senior Math <i>(Class of 2023 and beyond-4 math credits will be required, plus math taken every year.)</i>
Social Studies	3	World Civilization or AP World History: Modern U.S. History or AP U.S. History Political Science or AP U.S. Government & Politics
Fine Arts	1	Fine Arts, Art, Band, Drama or Chorus
Health & P.E.	1	Health (1/2 Credit) & P.E. (1/2 Credit)
Foreign Language	0-2	Two courses of the same language in sequence are required in Kentucky for Precollege Curriculum (PCC).
Technology Proficiency	1	Technology
Electives	9 or 7 for PCC	<i>Financial Literacy Added for Class of 2023 and beyond</i>
TOTAL	25	Students must have 25 credits in order to graduate <i>Sophomore-4 credits, Junior-11 credits, Senior-18 credits</i>

**PIKEVILLE HIGH SCHOOL
LEVELS OF DISTINCTION FOR GRADUATION HONORS**

GPA	LEVELS OF DISTINCTION	QUALIFYING REQUIREMENTS
3.9 - 4.0	Summa Cum Laude <i>Gold Cord</i>	Take seven (7) of the classes listed below with at least one from each content area
3.7 - 3.899	Magna Cum Laude <i>Silver Cord</i>	Take six (6) of the classes listed below with at least one from each content area
3.5 - 4.0	Cum Laude <i>Maroon Cord</i>	Higher GPAs that did not meet the requirements listed above.

- The required classes must be from the following lists.
- Minimum of 1 per content area.

English	Social Studies	Mathematics	Science
Honors English 10	AP US History	Pre-Calculus	Honors Physics I
AP English Literature	AP US Government	Trig/Calculus I	Honors Chemistry I or HICES
AP English Language	AP World History	AP Statistics	Honors Earth/Space or HIPES
ENG 111/ENG 112	AP Psychology	AP Calculus AB	Intro to Chemistry/Physics
ENG 200/ENG 251	Honors World Civilization	College Calculus	Honors Chemistry II
			AP Biology
			Ecology or APES
			College Chemistry

PIKEVILLE HIGH SCHOOL 4 YEAR PLAN

9th Grade

1. English 9
2. Intro to Physics w/E&S or HIPES
3. US History **OR** AP US History
4. Math _____
5. _____
6. _____
7. _____

11th Grade

1. English _____
2. Science _____
3. Political Science **OR**
AP Government
4. Math _____
5. _____
6. _____
7. _____

10th Grade

1. English 10 or Honors English 10
2. Intro Chemistry w/E&S or HICES
3. World Civ OR AP World History
4. Math _____
5. _____
6. _____
7. _____

12th Grade

1. English _____
2. Math _____
3. _____
4. _____
5. _____
6. _____
7. _____

Revised April 2021

PIKEVILLE HIGH SCHOOL

G.P.A. & CLASS RANK

Unweighted GPA

- Based on a traditional 4-point system
- Used for graduation honors
- Colleges use this for automatic scholarships
- All courses are equal in weight
 - A = 4 points
 - B = 3 points
 - C = 2 points
 - D = 1 point
 - F = 0 points

Weighted Class Rank

- Based on your percentage scores for your credits earned (Final Grade each semester)
- Weighted classes have a 1.25 multiplier applied to the average when calculating Class Rank
- Class rank is used for selection of Valedictorian and Salutatorian
- Class rank is used for more selective admission colleges
- Competitive scholarships will ask for a student's class rank

Weighted Classes Offered

- Honors English 10
- AP English Literature
- AP English Language
- Honors Physics I
- AP Biology
- AP Psychology
- Honors Biology
- Honors Integrated Science
- Project Lead the Way Courses
- Honors Geometry
- Accounting
- AP World History
- Honors Earth & Space
- College Calculus I-IV
- Trig/ Calculus
- Pre-Calculus
- AP Calculus
- AP Environmental Science
- AP Government
- AP US History
- Honors Physical Science
- Honors Algebra I
- Honors Algebra II
- AP Statistics
- AP Computer Science Principles
- Honors Chemistry I
- Honors Chemistry II
- College Chemistry
- English 111 Writing I
- English 112 Writing II
- Introduction to Chemistry/Physics
- Honors Intro Physics
- Honors Intro Biology
- Honors Intro Chemistry
- Honors World Civ.
- Ecology
- MTH 113 College Alg
- MTH 114 Trig
- ENG 111 Writing I
- ENG 112 Writing II
- ENG 200 Intro to Lit
- ENG 251 Survey of American Lit II
- All Dual Credit Classes
- All future AP Classes

VALEDICTORIAN & SALUTATORIAN HONORS

Students who have earned 50% of their high school credits at Pikeville High School and have been enrolled their entire senior year will be eligible for valedictorian and salutatorian. Based on scholastic achievement in the grades nine (9) through twelve (12), students in the senior class with the highest and second highest weighted numerical grade point average shall be designated respectively as valedictorian and salutatorian. Weighted numerical grade point average will be calculated and ranked as defined by SBDM council policy.

EARNING COLLEGE CREDIT IN HIGH SCHOOL

There are two ways to earn college credit while in high school—passing scores on Advanced Placement exams or dual credit coursework. Here are the differences to consider when choosing your classes:

Dual Credit—Students enroll in a dual credit class in which they earn both high school and college credit based on their final grade in the class. Also,

- Credit comes from being enrolled in the class and doing the assigned work. You will have a grade on your PHS transcript as proof of your high school credit, but you will also have a college transcript with your college hours and grade that you will have to send separately to the college you eventually attend.
- Awarded by a specific college/university such as Upike, Big Sandy, or ECU.
- Guaranteed at the awarding college, but you must check to see how the credits will transfer to the college that you choose. The answer may be different for different colleges. The Office of the Registrar at the college/university is where you can ask specific questions.

Advanced Placement (AP) Credit—Students take exams and earn potential college credit based on their exam scores. Students must send their qualifying scores to the college they choose to attend.

- Credit is awarded by the college you decide to attend for scores on AP Exams, usually a 3, 4, or 5 out of a possible 1-5.
- More versatile, but harder to earn since you have to pass an exam.
- Nearly every college/university accepts AP credit, but they have different criteria for the scores needed. Check the colleges “AP Credit Guide” for more information. See some examples below:

Kentucky Educational Excellence Scholarship (KEES)

The KEES program provides scholarships to students who earn at least a 2.5 GPA each year of attendance at a certified Kentucky high school. The better you do in high school, the more you earn toward college. You may also earn awards for ACT/SAT scores and Advanced Placement (AP), International Baccalaureate (IB) or Cambridge Advanced International (CAI) test scores. Home school and GED graduates may earn awards based on their ACT scores.

KEES Base Award Amounts

For each year you earn a 2.5 or better GPA, you can earn the base amount listed below. For instance, a high school freshman who earns a 3.5 GPA would have a \$375 scholarship for each year of college. Amounts may change based on available funds.

G.P.A. Award Amounts

GPA	Amount
2.50	\$125
2.60	150
2.70	175
2.75	187
2.80	200
2.90	225
3.00	250
3.10	275
3.20	300
3.25	312
3.30	325
3.40	350
3.50	375
3.60	400
3.70	425
3.75	437
3.80	450
3.90	475
4.00	500

ACT Bonus Award Amounts

You can earn a bonus award for an ACT score of 15 or above. For example, a KEES-eligible student who has a score of 25 would earn an additional \$393 for each year of college.

ACT Score	Bonus
15	\$36
16	71
17	107
18	143
19	179
20	214
21	250
22	286
23	321
24	357
25	393
26	428
27	464
28+	500

Advanced Placement (AP) Supplement Award Amounts

If you have been eligible for free or reduced-price lunch during any year of high school, you can earn a supplemental award if you have received a qualifying score on an Advanced Placement (AP) exam. For example, a student who receives a score of 3 on an AP exam and is eligible for free or reduced-price lunch would earn an additional \$200 for each year of college.

AP Exam Score of 3 = \$200/ year

AP Exam Score of 4 = \$250/ year

AP Exam Score of 5 = \$300/ year

PARTICIPATING KEES SCHOOLS

Kentucky campuses of these schools are eligible to participate in Kentucky Educational Excellence Scholarship (KEES)

- Alice Lloyd College
- American National University
- Asbury University
- Ashland Community and Technical College
- ATA College
- Beckfield College
- Bellarmine University
- Berea College
- Big Sandy Community and Technical College
- Bluegrass Community and Technical College
- Brescia University
- Campbellsville University
- Centre College
- Daymar College
- Eastern Kentucky University
- Elizabethtown Community and Technical College
- Embry-Riddle Aeronautical University
- Galen College of Nursing
- Gateway Community and Technical College
- Georgetown College
- Hazard Community and Technical College
- Henderson Community College
- Hopkinsville Community College
- Indiana Wesleyan University
- Jefferson Community and Technical College
- Kentucky Christian University
- Kentucky State University
- Kentucky Wesleyan College
- Lincoln Memorial University
- Lindsey Wilson College
- Madisonville Community College
- Maysville Community and Technical College
- McKendree University
- MedQuest College
- Midway University
- Morehead State University
- Murray State University
- Northern Kentucky University
- Northwood University
- Owensboro Community and Technical College
- Somerset Community College
- Southcentral Kentucky Community and Technical College
- Southeast Kentucky Community and Technical College
- Spalding University
- Sullivan University
- Thomas More University
- Transylvania University
- Union College
- University of Kentucky
- University of Louisville
- University of Pikeville
- University of the Cumberlands
- Western Kentucky University
- West Kentucky Community and Technical College




WHAT DOES PASSING THE AP TEST MEAN?

PHS Advanced Placement (AP) Credit Hours and Savings Opportunities

AP Class									
	AP Test Score	Credit	Course	AP Test Score	Credit	Course	AP Test Score	Credit	Course
AP English Language	3-5	3	WRD 1--	3-5	3	ENGL 100	3-4	3	ENG101
							5	6	ENG101,102
AP English Literature	3 or 4	3	Elective 100	3-5	3	ENGL 250	3-5	3	ENG101 or 110
	5	3	ENG 230						
AP Statistics	3	3	Elective 200	3-5	3	MATH 109	3	3	STA215
	4 or 5	6	STA 210, 296						
AP Calculus	3-5	4	MA 113	3	3	MAT180	3-5	4	MAT234
				4 or 5	4	MAT205			
AP Biology	3	3	BIO102, BIO103	3-5	3-4	BIO 105, BIO 171	3	3	BIO100 BIO111 BIO111,112
	4 or 5	6	BIO 148, BIO152				4	4	
AP U.S. History	3-5	6	108,109	3-5	6	HIST 211 HIST 212	3-5	6	HIS102, HIS103
AP World History	3-5	6	Elective 100 Level	3-5	3	HIST 102	3-5	6	HIS100, HIS101
AP Government	3-5	3	PS 101	3-5	3	POLS 100X POLS 201	3-5	3	GEO220
AP Psychology	3-5	4	PSY 100	3-5	3	PHYS 201	3-5	3	PSY200
AP Environmental Science (Ecology)	3-5	3	EES110	3-5	3	BIOL263	3-5	3	GEO110
AP Computer Science Principles	3-4	3	Elective	3-5	3	CIS 100x	3-5	3	CSC178
	5	3	CS101						

WHAT DOES PASSING THE AP TEST MEAN?

PHS Advanced Placement (AP) Credit Hours and Savings Opportunities

AP Class	 MOREHEAD STATE UNIVERSITY			 TRANSYLVANIA UNIVERSITY			 GEORGETOWN COLLEGE		
	AP Test Score	Credit	Course	AP Test Score	Credit	Course	AP Test Score	Credit	Course
AP English Language	3-5	3	ENG100	4-5	3	GE 1004	3	3	ENG 100
							4 or 5	4	ENG 111
AP English Literature	3-5	3	ENG100 or ENG120	4-5	3	GE 1004	3-5	3	ENG 111
AP Statistics	3 or 4	3	MAT123	4-5	3	MATH 1144	3-5	3	MAT 111
	5	3	MAT353						
AP Calculus	3-5	4	MAT175	4-5	3	MATH 1304	3	3	MAT 109
							4 or 5	3	MAT 125
AP Biology	3	3	BIO105	4-5	3	BIO 1164	3	3	BIO 100
	4 or 5	3 or 4	BIO105 or BIO171				4 or 5	4	BIO 111
AP U.S. History	3-5	3	HIS105	4-5	3	HIST 1164	3 or 4	3	HIS 223
							5	6	HIS 223, HIS 225
AP World History	3-5	3	HIS110	4-5	3	GE 1004	3 or 4	3	HIS 111
							5	6	HIS111, HIS 113
AP Government	3-5	3	POLS140	4-5	3	GE2100	3-5	3	POS100
AP Psychology	3-5	3	PSY154	4-5	3	PSY 1004	3-5	3	PSY111
AP Environmental Science (Ecology)	3-5	3	BIOL155	4-5	3	ENVS 1024	3-5	3	BIO100
AP Computer Science Principles	3-5	4	CS170	4-5	3	CS1124	3-5	3	CSC100

WHAT DOES PASSING THE AP TEST MEAN?

PHS Advanced Placement (AP) Credit Hours and Savings Opportunities									
AP Class	 UNIVERSITY OF PIKEVILLE UPIKE			CENTRE COLLEGE			 M MARSHALL UNIVERSITY.		
	AP Test Score	Credit	Course	AP Test Score	Credit	Course	AP Test Score	Credit	Course
AP English Language	3-5	3	WR 118	3	School Decision	School Decision	3 4 or 5	3 6	ENG101 ENG101,201
AP English Literature	3-5	3	ENG 200	4-5	3	School Decision	3 4 or 5	3 6	ENG 231 ENG231,213
AP Statistics	3-5	3	MTH 200	4-5	3	School Decision	3-5	3	MTH225 or MGT218
AP Calculus	3-5	4	MTH 121	4-5	3	School Decision	3 4 or 5	5 8	MTH132 MTH130,229
AP Biology	3 4-5	4 4	BIO 100 BIO 153	4-5	3	School Decision	3 4 or 5	8 8	BSC104,105 BSC120,121
AP U.S. History	3-5	3	HIS 150	4-5	3	School Decision	3-5	6	HIST230 HIST231
AP World History	3-5	3	HIS 160	4-5	3	School Decision	3-5	6	HST101,102,103 (2 of 3)
AP Government	3-5	3	PLS 101	4-5	3	School Decision	3-5	3	PSC104
AP Psychology	3-5	3	PSY 110	4-5	3	School Decision	3-5	3	PSY201
AP Environmental Science (Ecology)	3-5	4	BIO 200	4-5	3	School Decision	3-5	3	Elective
AP Computer Science Principles	3-5	3	CS 109	4-5	3	School Decision	3-5	3	CS105

PIKEVILLE HIGH SCHOOL

CAREER PATHWAY OFFERINGS

Aerospace Engineering **Project Lead The Way**

1. Engineering I
2. Engineering II
3. Aerospace Engineering
4. Engineering Capstone
5. AP Computer Science Principles

Digital Design & Gaming

1. Digital Literacy OR I.T. Literacy
2. Intro. To Digital Game Graphics and/or Computational Thinking
3. Game Design Principles and/or Intro to Programming
4. Advanced Game Design Principles

E-Commerce

1. Digital Literacy
2. Multimedia
3. Advanced Multimedia
4. Advertising & Promotions

Computer Programming

1. Digital Literacy or IT Computer Literacy
2. Intro to Programming
3. Computational Thinking
4. AP Computer Science Principles

Millard Vocational Career **Pathway Offerings**

1. Certified Nurse Aide
2. Heating Ventilation Air Conditioning (HVAC)
3. Auto Technology
4. Electricity
5. Industrial Maintenance

COURSE CATALOG

ARTS AND HUMANITIES COURSES

Course: Intro to Art (Elective)

Level: Regular

Credit: 1 or ½

Prerequisite: N/A

Description: Students are introduced to the basic fundamentals of artistic expression. The course includes experiences in drawing, painting, two- and three-dimensional design, sculpture, and other art forms. The course emphasizes observations, interpretation of the visual environment, visual communication, imagination and symbolism, and an introduction to various visual arts techniques and media. The focus of the course is on application of the fundamental processes of artistic expression and application of the concepts and approaches in the symbolic aspects of art and design to two- and three-dimensional problems so that they demonstrate a range of abilities and versatility with technique, problem solving, and ideation. A study of historical and contemporary art and artists from a worldwide perspective, and instruction and practice in peer review through the critique process, presentation or their, responding to art and connecting their art to the world around them are included.

Course: Painting/Drawing (Elective)

Level: Advanced

Credit: 1 or ½

Prerequisite: Art 1

Description: Students focus on the blend and relationships that occur between drawing and painting. Attention is given to two-dimensional work and utilizes one or more mediums, such as pen-and-ink, pencil, chalk, watercolor, tempera, oils, and acrylics. Students extend and refine knowledge in the creative process to visually communicate personal intent. Advanced students extend and refine knowledge in the creative process. They are encouraged to develop their own artistic styles. Students focus on making meaning by investigating and reflecting their awareness of their perceptions, knowledge, and experiences of life. The course may emphasize either drawing or painting or combine both.

Course: Advanced Art (Elective)

Level: Advanced

Credit: 1 or ½

Prerequisite: Art 1 & 2

Description: This course is designed to address a variety of factors and methods including evolving technologies when preparing and refining artwork for portfolio presentation and or when deciding if and how to preserve and protect art. Students will create, select, respond to, and present work that clearly reflects newly obtained technical skills, increasing conceptual thinking and is a reflection of their personal interests and may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills. Individual critique and planned peer review will help students prepare for future endeavors.

Course: Mixed Media Art (Elective)

Level: Advanced

Credit: 1 or ½

Prerequisite: Art 1 & 2

Description: This course is designed to address a variety of factors and methods including evolving technologies when preparing and refining artwork for portfolio presentation and or when deciding if and how to preserve and protect art. Students will create, select, respond to, and present work that clearly reflects newly obtained technical skills, increasing conceptual thinking and is a reflection of their personal interests and may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills. Individual critique and planned peer review will help students prepare for future

Course: Art History (Elective)

Level: Regular

Credit: 1 or ½

Prerequisite: N/A

Students are introduced to historical study and basis for many forms of visual art. Students form an aesthetic framework to examine social, political and historical events in the world. Students address contemporary aesthetic

issues and developments and how visual images and works express the needs and ideals of individuals and society. Students are involved in the creative process through lecture, discussion, observation, media and research.

Course: Fine Arts

Level: Regular

Credit: 1

Prerequisite: N/A

Description: Students are introduced to a survey of significant works, artists, and movements that have shaped the arts world and have influenced or reflected various periods of history in the arts disciplines of dance, music, theatre and visual art. Course content emphasizes the sequential evolution of art forms, techniques, symbols, and themes within those disciplines. The course covers the connections of the arts to cultural, social, political, and historical events throughout the world. Critical analysis of works from the disciplines, as they communicate and express the history, needs, and ideals of society and individuals is included. The course provides for students to experience creating, performing/presenting/producing, responding and connecting their own works as well as the works of others.

Elective courses that can count for the Fine Arts credit for graduation: Band-Winds or Percussion, Theatre, Chorus, Art History Music Theory, Music Appreciation, or any studio art course.

Course: Chorus (7-8)

Level: Regular

Credit: N/A

Prerequisite: N/A

Description: Students develop vocal skills in the context of a large choral ensemble as a means to study and perform a variety of styles. These courses are designed to develop students' vocal techniques and their ability to sing parts and include experiences in creating and responding to music. Courses are offered on multiple levels to accommodate proficiency.

Course: Chorus (9-12) (Elective)

Level: Regular

Credit: 1 or ½

Prerequisite: N/A

Description: Students develop vocal skills in the context of a large choral ensemble as a means to study and perform a variety of styles. These courses are designed to develop students' vocal techniques and their ability to sing parts and include experiences in creating and responding to music. Courses are offered on multiple levels to accommodate proficiency.

Course: Wind Studies I (Elective)

Level: Regular

Credit: 1

Prerequisite: N/A

Description: Courses in General Band are designed to promote students' technique for playing Brass, Woodwind, and Percussion instruments and cover a variety of band literature styles (e.g., Concert, Marching, Orchestral, and Modern) primarily for performances and also include experiences in creating and responding to music. These courses teach students the appropriate care, handling, and maintenance of musical instruments. Band courses may be offered on multiple skill levels to accommodate student proficiency. General Band courses may include marching activities for a portion of the year.

Course: Wind Studies II (Elective)

Level: Regular

Credit: 1

Prerequisite: Wind Studies I/Teacher Referral

Description: Courses in Symphonic Band are designed to promote students' playing technique for brass, woodwind, and percussion instruments, and cover a variety of music styles. Literature for Symphonic Band courses is usually more advanced and incorporates orchestral literature transcribed for band. These courses emphasize rehearsal and performance experiences and also include experiences in creating and responding to music. These courses teach students the appropriate care, handling, and maintenance of musical instruments. Symphonic band courses are offered on multiple skill levels to accommodate proficiency.

Course: Percussion I (Elective)

Level: Regular

Credit: 1

Prerequisite: N/A

Description: Courses in General Band are designed to promote students' technique for playing Brass, Woodwind, and Percussion instruments and cover a variety of band literature styles (e.g., Concert, Marching, Orchestral, and Modern) primarily for performances and also include experiences in creating and responding to music. These courses teach students the appropriate care, handling, and maintenance of musical instruments. Band courses may be offered on multiple skill levels to accommodate student proficiency. General Band courses may include marching activities for a portion of the year.

Course: Percussion II (Elective)

Level: Regular

Credit: 1

Prerequisite: Wind Studies I/Teacher Referral

Description: Courses in Symphonic Band are designed to promote students' playing technique for brass, woodwind, and percussion instruments, and cover a variety of music styles. Literature for Symphonic Band courses is usually more advanced and incorporates orchestral literature transcribed for band. These courses emphasize rehearsal and performance experiences and also include experiences in creating and responding to music. These courses teach students the appropriate care, handling, and maintenance of musical instruments. Symphonic band courses are offered on multiple skill levels to accommodate proficiency.

Course: Music Appreciation (Elective)

Level: Regular

Credit: 1 or ½

Prerequisite: N/A

Description: Students develop an understanding of music and its importance in relation to the human experience. Learning experiences include guided listening, analysis, discussion and hands on experimentation including informal performance, improvisation, or composition focused on how various styles of music apply musical elements to create expressive or aesthetic impact.

Course: Spanish I

Level: Regular

Credit: 1

Prerequisite: N/A

Description: High School course. Introductory course. It engages students in the target language with developmentally appropriate activities to acquire the language necessary to communicate (interpret, exchange, and present information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas). Cultural aspects are typically included in order to understand the relationship among the products, practices and perspectives of the target language's culture. In addition, students develop insight into their own language and culture.

Course: Spanish II

Level: Regular

Credit: 1

Prerequisite: Spanish 1

Description: It engages students in the target language with developmentally appropriate activities to acquire the language necessary to communicate and the skills necessary to perform interpersonal, interpretive and presentational communicative tasks; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.

Course: Yearbook (Elective)

Level: Regular

Credit: 1

Prerequisite: English 10/Teacher Referral

This class is offered to juniors and seniors who have demonstrated strong English (speaking and writing) skills, initiative, responsibility, creativity, and willingness and ability to work well with their peers and teachers. The course will expose the students to a variety of experiences, including the following: organization, planning, brainstorming, interviewing, writing, photography, computer application-studio works, graphics and design, teamwork, etc.

Course: Theatre: Acting & Performance (Elective)

Level: Regular

Credit: 1

Prerequisite: English 10/Teacher Referral

Students develop experience and skill development in one or more aspects of theatrical production, concentrating on acting and performance skills. Introductory courses explore fundamental techniques. Advanced courses focus on extending and refining technique, expanding students' exposure to different types of theatrical craft and traditions from varied social/historical contexts, and increasing their participation in publicly staged productions. These courses may also provide a discussion of career and postsecondary placement opportunities.

Course: Theatre: Production & Management (Elective)

Level: Regular

Credit: 1

Prerequisite: English 10/Teacher Referral

Theatrical Production and Management courses prepare individuals to manage the planning, design, preparation, and production of plays and other theatrical performances. These courses include instruction in theatrical design, program management, dramatic production, rehearsal management, personnel management and casting, actor coaching, directing concepts and techniques, theater history, scene work, script interpretation, business management, marketing, public relations, and communications skills. These courses may also provide a discussion of career and post-secondary placement opportunities.

ENGLISH COURSES

Course: English 7

Level: Regular

Credit: N/A

Prerequisite: N/A

Description: Middle level English/Language Arts is designed to present a wide range of reading experiences with print and non-print text for literary, informational, persuasive, and practical purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies, as well as the writing process and criteria for effective writing, to write in a variety of forms and for multiple audiences and purposes. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes, situations, and audiences. The integration of inquiry skills and technology with the other strands allows students to continue to discover and communicate ideas and information.

Course: English 8

Level: Regular

Credit: N/A

Prerequisite: English 7

Description: Middle level English/Language Arts is designed to present a wide range of reading experiences with print and non-print text for literary, informational, persuasive, and practical purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies, as well as the writing process and criteria for effective writing, to write in a variety of forms and for multiple audiences and purposes. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes, situations, and audiences. The integration of inquiry skills and technology with the other strands allows students to continue to discover and communicate ideas and information.

Course: English 9

Level: Regular

Credit: 1

Prerequisite: English 8

Description: ***Course Required for Graduation.** The course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. The course also requires students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes. In addition, students continue to integrate inquiry skills and technology to communicate ideas.

Course: English 10

Level: Regular

Credit: 1

Prerequisite: English 9

Description: *Course Required for Graduation. The course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. The course also requires students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes. In addition, students continue to integrate inquiry skills and technology to communicate ideas.

Course: Honors English 10

Level: Honors

Credit: 1 (weighted)

Prerequisite: English 9

Description: *Course Required for Graduation. The course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. The course also requires students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes. In addition, students continue to integrate inquiry skills and technology to communicate ideas. **This course presents more challenging material than English 10 and requires more independent study.**

Course: English 11

Level: Regular

Credit: 1

Prerequisite: English 10

Description: *Course Required for Graduation. The course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. The course also requires students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of authentic purposes. In addition, students continue to integrate inquiry skills and technology to communicate ideas. Course adheres to Kentucky Academic Standards requirements. (AP Language or ENG 111/ENG112 may be substituted for English 11 for credit towards graduation.)

Course: AP Language and Composition

Level: Advanced

Credit: 1 (weighted)

Prerequisite: English 10

Description: The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. College credit is earned with a qualifying score on an AP exam

Course: English 12

Level: Regular

Credit: 1

Prerequisite: English 11

Description: *Course Required for Graduation. The course is designed to present a wide range of reading experiences with print and non-print materials that have literary, informational, persuasive, and practical purposes. The course also requires students to use the writing process and criteria for effective writing to demonstrate their abilities to write in a variety of forms and for multiple audiences and purposes. Students use writing-to-learn and writing-to-demonstrate-learning strategies to make sense of their reading and thinking experiences. Speaking, listening, and observing skills are used to communicate information for a variety of

authentic purposes. In addition, students continue to integrate inquiry skills and technology to communicate ideas. Course adheres to Kentucky Academic Standards. (AP Literature or ENG200/ENG251 may be substituted for English 12 for credit towards graduation.)

Course: AP Literature and Composition

Level: Advanced Credit: 1 (weighted) Prerequisite: English 11

Description: The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work’s structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. College credit is earned with a qualifying score on an AP exam.

Course: Contemporary Fiction (Elective)

Level: Regular Credit: ½ Prerequisite: English 10

Special topics include: modern authors, thematic patterns, reading, evaluating, and critiquing works of the 20th and 21st century. Self-selected reading and independent work required as part of the course.

Course: Grammar & Composition (Elective)

Level: Regular Credit: ½ Prerequisite: English 10

Description: Content for this course may vary. Possible topics include basic composition structure and skill development and may focus on a combination of the modes of writing, e.g., narrative, expository and argumentative. Topics may vary depending on the mode of writing.

HEALTH AND PHYSICAL EDUCATION COURSES

Course: 7th Grade Health

Level: Regular Credit: N/A Prerequisite: N/A

Description: : This course is designed to give students the opportunity to learn through a comprehensive sequentially planned Health Education program in accordance with the Kentucky Academic Standards for Middle School (7th Grade) Health Education. The emphasis of this course is to teach students the ability to access, understand, appraise, apply and advocate for health information and services in order to maintain or enhance one's own health and the health of others.

Course 7th & 8th Physical Education

Level: Regular Credit: N/A Prerequisite: N/A

Description: This course is designed to give students the opportunity to learn through a comprehensive sequentially planned Physical Education program in accordance with the Kentucky Academic Standards for Middle School (7th Grade) Physical Education. The emphasis of this course is to provide students with the skills, knowledge, attitude and confidence to be active for a lifetime. Students will have the opportunity to develop skills in fitness/conditioning activities, individual/team sports and recreational activities. Students will learn to explain and summarize how physical education contributes to optimal development of physical, mental, emotional and social health.

Course: Math 8

Level: Regular

Credit: N/A

Prerequisite: Probability and Statistics/Geometry & Prealgebra

The 8th grade mathematics curriculum is based on the needs of 8th grade mathematics students as indicated by the Common Core State Standards, the scope and sequence of the Mathematics Department of the Pikeville Independent School System, and the National Council of Teachers of Mathematics Standards for middle school students.

Course: Algebra I

Level: Regular

Credit: 1

Prerequisite: Math 8

Description: Upon completion of the course, students should be able to represent relationships mathematically, develop fluency in writing, interpret expressions and equations, translate between various forms of linear equations and inequalities and use them to solve problems including those that require a system of equations, solve linear equations, apply related solution techniques and the laws of exponents to solve simple exponential equations, understand function definition and notation, contrast linear and exponential graphical representations, make judgments about the appropriateness of linear models, perform arithmetic operations on inequalities, interpret functions and fluently use function notation, construct and compare linear and exponential models and solve related problems, factor quadratic and cubic expressions solve quadratic equations to interpret related quadratic functions and explore non-linear relationships. This course should be designed to meet the high school graduation credit for Algebra 1 and to build a solid foundation necessary for future high school math courses.

Honors Algebra I

Level: Honors

Credit: 1 (weighted)

Prerequisite: Math 8

Description: Upon completion of the course, students should be able to represent relationships mathematically, develop fluency in writing, interpret expressions and equations, translate between various forms of linear equations and inequalities and use them to solve problems including those that require a system of equations, solve linear equations, apply related solution techniques and the laws of exponents to solve simple exponential equations, understand function definition and notation, contrast linear and exponential graphical representations, make judgments about the appropriateness of linear models, perform arithmetic operations on inequalities, interpret functions and fluently use function notation, construct and compare linear and exponential models and solve related problems, factor quadratic and cubic expressions solve quadratic equations to interpret related quadratic functions and explore non-linear relationships. This course should be designed to meet the high school graduation credit for Algebra 1 and to build a solid foundation necessary for future high school math courses.

The honors course is designed for students with a high mathematics aptitude and interest. The high level of effort and achievement expected demands that the student engage in extensive test preparation and homework.

Course: Geometry:

Level: Regular

Credit: 1

Prerequisite: Algebra I

This course is designed so the students can develop skills and concepts from the relevant statements in the Kentucky Core Academic Standards for Mathematics in order to earn the high school graduation credit for Geometry. Content includes congruence, proof, constructions, similarity, trigonometry, extending to three-dimensions, connecting algebra and geometry through coordinates, circles, and applications of probability.

Course: Honors Geometry

Level: Honors

Credit: 1 (weighted)

Prerequisite: Algebra I/Teacher Referral or Honors Algebra I

This course is designed so the students can develop skills and concepts from the relevant statements in the Kentucky Core Academic Standards for Mathematics in order to earn the high school graduation credit for

Geometry. Content includes congruence, proof, constructions, similarity, trigonometry, extending to three-dimensions, connecting algebra and geometry through coordinates, circles, and applications of probability.

This course is designed for students with a high mathematics aptitude and interest. The high level of effort and achievement expected demands that the student engage in extensive test preparation and homework.

Course: Algebra II

Level: Regular

Credit: 1

Prerequisite: Algebra I and Geometry

Description: Upon completion of the course, students should be able to use properties of numerical operations to perform calculations involving polynomials,, identify zeros of polynomials and make connections between zeros of polynomials and solutions of geometry to extend trigonometry to model periodic phenomena, work with a variety of function families exploring the effects of transformations, analyze functions using different representations, build, interpret and compare functions including square root, cube root, piece-wise, trigonometric and logarithmic functions, identify appropriate functions to model situations, adjust parameters to improve the models, and compare models by analyzing appropriateness of fit.

Course: Honors Algebra II

Level: Honors

Credit: 1 (weighted)

Prerequisite: Algebra I/Teacher Referral or Honors Algebra Geometry/Teacher Referral. Honors Geometry may be a Corequisite

Description: This course is designed so the students develop skills and concepts from the Kentucky Core Academic Standards beyond Algebra I and then builds on those skills and concepts in a **rigorous** manner. **This course is designed for students with a high mathematics aptitude and interest. The high level of effort and achievement expected demands that the student engage in extensive test preparation and homework.**

Course: Pre-Calculus

Level: Honors

Credit: 1 (weighted)

Prerequisite: Honors Algebra II

Description: This course is designed for students to attain the concepts necessary to be successful in a Calculus course, an AP Calculus course or a College Calculus course. Objectives for this course should include, but are not limited to: solve equations and inequalities involving polynomial, rational, exponential, logarithmic and trigonometric functions, understand and apply the behavior and properties of polynomial, rational, exponential, logarithmic, and trigonometric functions, graph polynomial, rational, exponential, logarithmic, and trigonometric functions, use technology to solve and graph various types of equations and inequalities and prove trigonometric identities. Standards for this course may also include the (+) standards denoted in the Kentucky academic standards document.

Course: Trigonometry (Elective)

Level: Advanced

Credit: ½ (weighted)

Prerequisite: Pre-Calculus

Description: This course is designed for students who have completed Algebra 2 and want to proceed further into aspects of Trigonometry. This course should contain, but is not limited to: evaluating a trigonometric function for an angle expressed in radians and degrees, solving right and oblique triangles, including real-life applications, using and verifying (proving) trigonometric identities, solving trigonometric equations; and graphing and interpreting graphs of trigonometric functions in rectangular and polar form.

Course: Calculus I (Elective)

Level: Advanced

Credit ½ (weighted)

Prerequisite: Trigonometry

Description: This course is designed to address all the concepts normally covered in differential and integral calculus. Students who successfully complete this course should be able to demonstrate an understanding and use of the concept of a function, whether the function is represented by tabulated data, graphs, or formulas, use calculus to formulate and solve problems, understand the derivative as a rate of change, including its connections to tangent lines, linear approximations, extrema, and instantaneous velocity, understand the definite integral as a measurement of area, as a limit, and as an inverse of differentiation, use technology to solve problems, compute

limits, derivatives, and antiderivatives and determine the continuity of a function and understand its significance and effectively communicate solutions to problems using correct and precise mathematical language.

Course: AP Statistics (Elective)

Level: Advanced Credit: 1 (weighted) Prerequisite: Pre-Calculus

Description: The AP Statistics course is equivalent to a one-semester, introductory, non-calculus based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. College credit is earned with a qualifying score on an AP exam.

Course: Pre-College Algebra (Elective)

Level: Intervention Credit: 1 Prerequisite: Senior Only/Algebra II

Description: This course is for 12th grade students who have not yet met benchmark on college readiness mathematics standards and need additional time and support to be successful in post-secondary mathematics courses.

Course: AP Calculus AB (Elective)

Level: Advanced Credit: 1 Prerequisite: Trigonometry/Calculus I

Description: AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The AP course covers topics in these areas, including concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. College credit is earned with a qualifying score on an AP exam.

SCIENCE COURSES

Course: Science 7th Grade

Level: Regular Credit: N/A Prerequisite: N/A

Description: In this course, students are engaged in experiences that demonstrate chemical reactions, energy transfer, forces, information processing, and genetics as described in the Kentucky Academic Standards for Science. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are the tools students will use, and skills they develop, as they investigate the natural world, and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science.

Course: Science 8th Grade

Level: Regular Credit: N/A Prerequisite: Science 7

Description: In this course, students will be engaged in experiences which will connect their understandings about Life, Earth and Space, and Physical Science concepts experienced in grades 6 and 7. These connections should be related to human impact, as described in the Kentucky Academic Standards for Science. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are the tools students will use, and skills they develop, as they investigate the natural world, and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science.

Intro Physics w/Earth/Space Science

Level: Regular

Credit: 1

Prerequisite: Science 8

Description: Students develop a conceptual understanding of physics and Earth/space science content, as outlined in the Kentucky Academic Standards for Science, through the use of the science and engineering practices. They experience physics and Earth/space science concepts such as motions and forces, conservation of energy and the increase in disorder, interactions of energy and matter, and energy in the Earth system. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science. For this course, the suggested sequence is Introductory Physics with Earth/Space Science, Introductory Chemistry with Earth/Space Science, and Introductory Biology with Earth/Space Science.

Honors Intro Physics w/Earth/Space Science

Level: Honors

Credit: 1

Prerequisite: Science 8

Description: Students develop a conceptual understanding of physics and Earth/space science content, as outlined in the Kentucky Academic Standards for Science, through the use of the science and engineering practices. They experience physics and Earth/space science concepts such as motions and forces, conservation of energy and the increase in disorder, interactions of energy and matter, and energy in the Earth system. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science. For this course, the suggested sequence is Introductory Physics with Earth/Space Science, Introductory Chemistry with Earth/Space Science, and Introductory Biology with Earth/Space Science. **This course is designed for students with a high scientific aptitude and interest. The high level of effort and achievement expected demands that the student engage in extensive test preparation and homework.**

Intro Chemistry w/Earth/Space Science

Level: Regular

Credit: 1

Prerequisite: IPES

Description: Students develop a conceptual understanding of Chemistry and Earth/Space Science, as outlined in the Kentucky Academic Standards for Science, through the use of the science and engineering practices. They experience chemistry and Earth/space science concepts such as the structure of atoms, structure and properties of matter, chemical reactions, geochemical cycles, and formation and ongoing changes of the universe. The use of the science practices describes the behaviors students will engage in as they investigate the natural world. Students will learn these core ideas within these topics through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science. For this course, the suggested sequence is Introductory Physics with Earth/Space Science, Introductory Chemistry with Earth/Space Science, and Introductory Biology with Earth/Space Science.

Honors Intro Chemistry w/Earth/Space Science

Level: Honors

Credit: 1

Prerequisite: IPES

Description: Students develop a conceptual understanding of Chemistry and Earth/Space Science, as outlined in the Kentucky Academic Standards for Science, through the use of the science and engineering practices. They experience chemistry and Earth/space science concepts such as the structure of atoms, structure and properties of matter, chemical reactions, geochemical cycles, and formation and ongoing changes of the universe. The use of the science practices describes the behaviors students will engage in as they investigate the natural world. Students will learn these core ideas within these topics through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science. **This course is designed for students with a high scientific aptitude and interest.**

The high level of effort and achievement expected demands that the student engage in extensive test preparation and homework.

Intro Biology w/Earth/Space Science

Level: Regular

Credit: 1

Prerequisite/Corequisite: IPES

Description: Students develop a conceptual understanding of Biology and Earth/Space Science. They experience biology and Earth/space science concepts, as outlined in the Kentucky Academic Standards for Science, such as structure and function of cells; molecular basis of heredity; biological change; changes in the Earth system; interdependence of organisms; matter, energy and organization in living systems; and the behavior of organisms. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are the skills students will use as they investigate the natural world, and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science.

Honors Intro Biology w/Earth/Space Science

Level: Honors

Credit: 1

Prerequisite/Corequisite: IPES

Description: Students develop a conceptual understanding of Biology and Earth/Space Science. They experience biology and Earth/space science concepts, as outlined in the Kentucky Academic Standards for Science, such as structure and function of cells; molecular basis of heredity; biological change; changes in the Earth system; interdependence of organisms; matter, energy and organization in living systems; and the behavior of organisms. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are the skills students will use as they investigate the natural world, and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science. **This course is designed for students with a high scientific aptitude and interest. The high level of effort and achievement expected demands that the student engage in extensive test preparation and homework.**

Course: AP Biology (Elective)

Level: Advanced

Credit: 1 (weighted)

Prerequisite: Honors Biology and ICP

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. College credit is earned with a qualifying score on an AP exam.

Course: Honors Chemistry II (Elective)

Level: Advanced

Credit: 1 (weighted)

Prerequisite: Honors Chemistry I

Description: This college level course focuses on the study of the structure of matter, chemical kinetics, solution chemistry, and laboratory techniques.

Course: Honors Physics I (Elective)

Level: Advanced

Credit: 1 (weighted)

Prerequisite: Pre-Calculus

Description: Students develop a conceptual understanding of physics as outlined in the Kentucky Academic Standards for Science. They experience concepts such as motions and forces, conservation of energy and the increase in disorder, interactions of energy and matter. Students will learn these core ideas through the use of the science and engineering practices and crosscutting concepts. The science and engineering practices are skills students will use as they investigate the natural world and develop solutions to problems. The crosscutting concepts are conceptual ways of thinking that cross the domains of science.

Course: Anatomy/Physiology (Elective)

Level: Advanced Credit: 1 or 1/2 Prerequisite: Biology

Description: Major concepts addressed in this course include plant structure, animal structure, tissues, organs, and systems.

Course: Forensic Science (Elective)

Level: Regular Credit: 1 or 1/2 Prerequisite: Biology and Physical Science

Description: This course is a problem-based inquiry course dealing with Forensic sciences—the science used by law enforcement agencies to solve crimes.

Course: Biochemistry (Elective)

Level: Advanced Credit: 1 or 1/2 Prerequisite: Honors ICES and Biology

Description: Major concepts addressed in this course include biochemical evolution, macromolecules, metabolism, glycolysis, photosynthesis, and respiration.

Course: Microbiology: Pathology—Human Diseases & Disorders (Elective)

Level: Regular Credit: 1 or 1/2 Prerequisite: ICES and Biology

Description: This course focuses on the study of microbiological techniques, viruses, fungi, protozoans, bacteria, and pathogenic organisms.

Course: Zoology (Elective)

Level: Regular Credit: 1 or 1/2 Prerequisite: Biology

Description: This course focuses on the study of the animal kingdom, including organ systems and dissection.

Course: Project Lead the Way-Engineering I (Elective)

Level: Advanced Credit: 1 Prerequisite: Math Skills Assessment

Description: Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work.

Course: Project Lead the Way – Engineering II (Elective)

Level: Advanced Credit: 1 Prerequisite: Engineering I

Description: 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. Participation in Kentucky Technology Student Association will greatly enhance instruction.

Course: Project Lead the way - Aerospace Engineering (Elective)

Level: Advanced Credit: 1 Prerequisite: Engineering II

Description: This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. Participation in Kentucky Technology Student Association will greatly enhance instruction.

SOCIAL STUDIES COURSES

Course: History 7 (World Civilization)

Level: Regular

Credit: N/A

Prerequisite: N/A

Description: Middle level social studies uses the five strands of social studies (historical perspective, geography, economics, government and civics, and culture and society) in an integrated program which focuses on a different grade-level context each year. Grade seven focuses on an integrated study of world history from the earliest civilizations to 1500. Regardless of the grade-level context, students use the five categories of social studies to explore the content.

Course: History 8 (United States History)

Level: Regular

Credit: N/A

Prerequisite: History 7

Description: Middle level social studies uses the five strands of social studies (historical perspective, geography, economics, government and civics, and culture and society) in an integrated program which focuses on a different grade-level context each year. Grade eight covers the history of the United States from the early inhabitants to Reconstruction. Regardless of the grade-level context, students use the five categories of social studies to explore the content.

Course: U.S. History

Level: Regular

Credit: 1

Prerequisite: History 8

Description: Course required for graduation. U.S. History Survey is a basic overview of the history from Reconstruction to present; government institutions; applications to daily living.

Course: AP U.S. History

Level: Advanced

Credit: 1 (weighted)

Prerequisite: History 8

Description: This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance - American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture 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. The course also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth. College credit is earned with a qualifying score on an AP exam.

Course: AP World History:Modern

Level: Advanced

Credit: 1 (weighted)

Prerequisite: N/A

Description: This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance - American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture 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. The course also allows teachers flexibility across nine different periods of U.S. history to teach topics of their choice in depth. College credit is earned with a qualifying score on an AP exam.

Course: World Civilization

Level: Regular Credit: 1 Prerequisite: N/A

Description: World History is a survey of the history of the world focusing on cultural and political aspects; ancient and modern history; the study of western and non-western civilizations; and current events.

Course: Honors World Civilization

Level: Honors Credit: 1 (weighted) Prerequisite: N/A

Description: World History is a survey of the history of the world focusing on cultural and political aspects; ancient and modern history; the study of western and non-western civilizations; and current events. **This course presents more challenging material than World Civilization and requires more independent study.**

Course: World Geography (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: N/A

Description: Physical Geography is the descriptive science dealing with the surface area of the earth including continents and countries, and the climate, plants, animals and natural resources of the various earth divisions.

Course: AP US Government& Politics

Level: Advanced Credit: 1 (weighted) Prerequisite: N/A

Description: This course introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events, and interpret data to develop evidence-based arguments. College credit is earned with a qualifying score on an AP exam.

Course: Contemporary U.S. History (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: N/A

Description: Contemporary U. S. History is a study of local, state and national government operations; economic issues; citizenship responsibilities; current events and historical origins; problem solving techniques.

Course: Political Science (Required for Juniors)

Level: Regular Credit: 1 Prerequisite: N/A

Description: Political Science is the study of local, national, and foreign political processes.

Course: AP Psychology (Elective)

Level: Advanced Credit: 1 (weighted) Prerequisite: N/A

Description: This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, development psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. College credit is earned with a qualifying score on an AP exam.

Course: Law and Justice (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: N/A

Description: Law and Justice is a study of law-civil, criminal, constitutional, and international; the legal and justice systems. Students will examine the need for rules and regulations; interpretations of the constitution, both state and federal; Supreme Court decisions; the Bill of Rights, and individual rights law, criminal law, family law, and consumer law. The study of the basic social contracts of society will enable students to understand the preferred democratic values: justice, equality, responsibility and freedom, rule of law, human rights, honesty, equity, rational process and human dignity.

Course: Global Issues (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: N/A

Description: Global Issues is the study of persistent issues related to social, political, and economic facets of human behavior. This is an opportunity for the mature pupil to examine the concepts, skills, and tools of the social scientist and the humanist in some decision-making and problem-international concern. This should be more than a survey course in current events. Independently, pupils might pursue a new issue in considerable depth through comprehensive research and analysis. It would also be possible for the teacher to utilize this course to involve the students in some direct manner with community issues and problems. The student could identify with a practitioner who shares the concern or problem.

Course: Psychology (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: N/A

Description: Psychology is an introduction to the basic scientific theoretical principles of individual human behavior. Students will be exposed to various topics in the field of psychology research.

Course: Sociology (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: N/A

Description: Sociology is the scientific study of human society. It is concerned with the behavior of human beings in group situations. The study of sociology, therefore, consists of trying to understand: The basic units and institutions of social life, such as the family, schools, neighborhoods, rural and urban communities, and the many other kinds of groups with which humans identify. This group can include occupational, political, religious, ethnic, family, economic status, or ideology. The sociological perspectives focus on how those social relationships arise, why they persist, why antagonisms develop, and how they maintain social order to contribute to social change.

Course: History of Sports in America (Elective)

Level: Regular Credit: ½ Prerequisite: None

Description: This is a history survey course that will provide an overview of one of the major American pastimes: sports. The origin and evolution of sports and sporting events and how sports have been influential in American culture and history will be the focus.

Course: World History through Film (Elective)

Level: Regular Credit: ½ Prerequisite: None

Description: This course seeks to examine the portrayal of world history in films against both the historical reality of actual events and the intellectual and cultural forces that shaped the making of these movies. Through the reading of historical primary sources, scholarly articles from history, art, cinema, film, literature, English and interdisciplinary journals, students will learn how to critically interpret a variety of scholarly readings and understand scholarly arguments.

CAREER AND TECHNICAL EDUCATION

Course: Career Studies 7th Grade (Elective)

Level: Regular Credit: N/A Prerequisite: N/A

Description: Career Choice is a program designed for middle school students and introduces them to a broad range of career opportunities in today's society. It includes assessment of student's aptitudes and abilities, interests and learning styles in order to assist them in identifying careers and planning a career path.

Course: Career Explorations 8th Grade (Elective)

Level: Regular Credit: 1 Prerequisite: N/A

Description: Career Choice is a program designed for middle school students and introduces them to a broad range of career opportunities in today's society. It includes assessment of student's aptitudes and abilities, interests and learning styles in order to assist them in identifying careers and planning a career path.

Course: Game Design Principles (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: IT Computer Literacy or Digital Literacy

This course is a general introduction to Game Design providing an overview of story development, gaming history, game reviews, current gaming trends and industry software. Students will begin to create and develop a game story/plot that can be further developed in higher level courses as well as critique current games. In addition, game development software will be explored to further enhance their design skills.

Course: Advanced Game Development and Publishing (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: any Game Design Pathway course

This course will focus on creating games using code, 3D characters, objects, and animation utilizing game engines. Students will see how the skills and knowledge acquired in Game Design I-III come together. Students will create work ready products for the industry. Students will participate in Game Jams to practice working with teams and deadlines. Students spend at least 20 hours programming and applying learned concepts through programming. Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.

Course: Introduction to Digital Game Graphics (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: IT Computer Literacy or Digital Literacy

Emphasizes creating 3D graphics using one or more state-of-the-art software packages. Provides students with a thorough understanding of techniques for designing advanced 3D games and simulations. Courses will cover 2D and 3D graphics, animation, character development, and texturing, rigging, scripting and game setup using state-of-the-art software development tools.

Course: Multimedia/Advanced Multimedia (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: Teacher Approval

Description: Content for this course may vary but may include researching, reporting, writing, filming/recording and editing in digital and/or online formats.

Course: Multimedia/Advanced Multimedia (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: Teacher Approval

Description: This course is designed to provide students with a realistic "hands-on" application of techniques used in the advertising and promotion of goods and services. Students use typical media software and media equipment while being exposed to all forms of media (including print, internet, radio, and television), methods, budgets, and evaluations used by industry.

Course: Digital Literacy or IT Computer Literacy (Elective)

Level: Regular Credit: 1 or ½ Prerequisite: N/A

Description: Students will use a computer and application software including word processing, presentations, database, spreadsheets, internet, and email to prepare documents and reports. The impact of computers on society and ethical issues are presented.

Course: Senior Seminar

Level: Regular Credit: 1 or ½ Prerequisite: Seniors only

Description: Career Networking is a second level course in career and technical education and provides opportunities for exploration of career clusters with an in-depth focus on two or more clusters. The curriculum includes a continuum of employability and computer skills needed in the workplace. Opportunities are provided

for students to participate in internships in cluster interest areas. Upon completion of the course, the students have an opportunity to select a career major.

Course: Intro to Programming(Elective)

Level: Regular

Credit: 1 or ½

Prerequisite: None

Description: Focuses on the general writing and implementation of generic and atomized programs to drive operating systems. Includes software design, languages, and program writing, trouble-shooting, etc.

Course: Computational Thinking(Elective)

Level: Regular

Credit: 1 or ½

Prerequisite: None

Description: Students analyze the structure of the worldwide web, apply basic principles of web documents and HTML, and develop multi-media web pages. Course content will include the understanding of hypertext and web structures. Equipment such as scanners, digital and video cameras and sound recording devices will be utilized through hands-on instruction. Promotes understanding of computer programming and logic by teaching students to "think like a computer". Covers skills needed to develop and design language-independent solutions to solve computer related problems. Covers developmental and design basics including use of variables, control and data structures, and principles of command-line and object-oriented languages.

Course: AP Computer Science Principles (Elective)

Level: Advanced

Credit: 1

Prerequisite: None

Description: AP Computer Science Principles is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world. The course is rigorous and rich in computational content, includes computational and critical thinking skills, and engages students in the creative aspects of the field. Through both its content and pedagogy, this course aims to appeal to a broad audience. Teachers select the programming language(s) that is most appropriate for their students. Students spend at least 20 hours programming and applying learned concepts through programming. Programming is defined, by the K-12 CS Framework, as the craft of analyzing problems and designing, writing, testing, and maintaining programs to solve them.

ENRICHMENT/INTERVENTION COURSES

Course: ACES

Level: Gifted Education

Credit: N/A

Prerequisite: Qualified for GT program

Description: Students in grades 7th and 8th who are identified in Gifted & Talented areas of Leadership, General Intellectual, Math, Language Arts, Science, Social Studies, and Creativity can take this course as an elective. If space allows students identified in GT Art, Music, Drama and Dance are allowed to take this elective. This course was designed to challenge GT students through authentic project based lessons. The first semester is centered on the Future City Competition. The second semester is dictated by student interest and choice. This course fosters the talents of the GT student.

Course: ACES 2

Level: Gifted Education

Credit: 1

Prerequisite: Qualified for GT Program

Description: Students in grades 9th-12th who are identified in Gifted & Talented areas of Leadership, General Intellectual, Math, Language Arts, Science, Social Studies and Creativity can take this course as an elective. This course was designed to challenge GT students through authentic project based lessons. Student choice and interest drives curriculum. STEM projects are a main focus. This course fosters the talents of the GT student.

Course: Reading Lab 7th/8th Grade

Level: Intervention Credit: N/A Prerequisite: N/A

Description: This course is for students who need additional time and support or for students in reading at the middle school level who could benefit from enrichment. This course includes social sciences, natural sciences, humanities, and literary texts.

Course: Math Lab 7/8th Grade

Level: Intervention Credit: N/A Prerequisite: N/A

Description: This course is for students who need additional time and support or for students in mathematics at the middle school level that could benefit from enrichment. This course includes support for all middle school mathematics courses.

Course: Reading Skills & Strategies

Level: Intervention Credit: 1 Prerequisite: N/A

Description: This course is for students who need additional time and support or for students in reading at the high school level who could benefit from enrichment. This course includes social sciences, natural sciences, humanities, and literary texts. This course could serve as an English/Language Arts elective for high school graduation, but not as one of the four required English Language Arts courses.

Course: Foundations of Algebra/Geometry

Level: Intervention Credit: 1 Prerequisite: N/A

Description: This course is for students who need additional time and support or for students in mathematics at the high school level who could benefit from enrichment. This course includes support for all high school mathematics courses.

Course: Algebra II Foundations

Level: Intervention Credit: 1 Prerequisite: N/A

Description: This course is for students who need additional time and support or for students in mathematics at the high school level who could benefit from enrichment. This course includes support for all high school mathematics courses.

Course: Pre-College Algebra

Level: Intervention Credit: 1 Prerequisite: Senior Only/Algebra II

Description: This course is for 12th grade students who have not yet met benchmark on college readiness mathematics standards and need additional time and support to be successful in post-secondary mathematics courses.

DUAL CREDIT COURSES
UNIVERSITY OF PIKEVILLE

Students are able to take courses on-campus at the University of Pikeville if they met the university requirements and if the scheduled course times do not interfere with required classes for graduation. There is an 8 credit hour limit per year to the amount of dual credit allowed by UPike. Dual credit courses taken at Pikeville High School are tuition-free and have no additional materials costs; however, courses taken on the UPike campus are charged tuition directly to the student from the university business office and students are required to purchase all course materials including textbooks. KHEAA has dual credit scholarships available to help with the cost. For more information see the guidance office.

Course: ENG 111 Writing I

Level: Dual Credit Credit: 1/2 Prerequisite: English 10, Met all ACT benchmarks

Description: This course focuses on practical instruction in the process of reading, planning, and writing short essays, with emphasis on rhetorical strategies for structure and development, and on the basic rules of grammar and punctuation. Counts as 1st semester English 11 credit for graduation.

Course: ENG 112 Writing II

Level: Dual Credit Credit: 1/2 Prerequisite: ENG 111

Description: This course focuses on additional instruction and practice in writing, with emphasis on argumentation and research. This course is designed to strengthen and refine the skills acquired in ENG 111. Counts as 2nd semester English 11 credit for graduation.

Course: ENG 200 Introduction to Literature

Level: Dual Credit Credit: 1/2 Prerequisite: ENG 112

Description: A study of representative selections in the genres of fiction, drama, and poetry, with emphasis on interpretation and appreciation. Critical approaches and terminology appropriate to each genre will be considered. Counts as 1st semester of English 12 credit for graduation.

Course: ENG 251 Survey of American Literature II

Level: Dual Credit Credit: 1/2 Prerequisite: ENG 112

Description: Study of American writing from Twain to the present, with emphasis on poetry, short fiction, drama, and the essay. Counts as 2nd semester of English 12 credit for graduation.

Course: MTH 095 Intermediate Algebra

Level: Dual Credit/Intervention Credit: 1/2 Prerequisite: Met all ACT benchmarks, Math 19, 20, or 21

Description: Pre-requisite course for College Algebra (MTH 113) for students who have met Kentucky CPE benchmark for Math (19), but have not yet met the National benchmark for College Algebra in Math (22). Students who complete this course with a grade of "C" or higher may continue on to MTH 113.

Course: MTH 113 Precalculus Algebra (College Algebra)

Level: Dual Credit Credit: 1/2 Prerequisite: Met all ACT Benchmarks, Math 22 or C or higher in MTH 095

Description: This course focuses on additional instruction and practice in writing, with emphasis on argumentation and research. This course is designed to strengthen and refine the skills acquired in ENG 111.

Course: MTH 114 Trigonometry

Level: Dual Credit Credit: 1/2 Prerequisite: Met all ACT Benchmarks, Math 22

Description: A study of concepts and applications of circular and trigonometric functions. Includes graphs of trigonometric functions, inverse trigonometric functions, circular motion, solution of triangles, and trigonometric identities.

Course: MUS 122 Basic Theory and Musical Skills

Level: Dual Credit Credit: 1/2 Prerequisite: Band/Choir student or can read music
Met all ACT benchmarks

Description: The course focuses on the fundamental areas of music theory; Musical Terminology (intervals, triads, scales); Notational Skills (rhythm, meters, clefs, pitches, key signatures, scales, intervals, chords); Basic Compositional Skills (simple four voice part writing); Musical Analysis (small scale harmonic procedures, melodic

and rhythmic organization, texture); Aural Skills (sightsinging, melodic and rhythmic dictation). Counts as ½ the Fine Arts credit for graduation.

Course: MUS 115 Music Appreciation: Classical

Level: Dual Credit

Credit: 1/2

Prerequisite: Met all ACT benchmarks

Description: The course focuses on various idioms of Western European Art Music. Topics include: Middle Ages, Renaissance, Baroque, Classical, Romantic, Modern and Post Modern period music. (Counts toward the General Education Humanities requirement at Upike). Counts as ½ the Fine Arts credit for graduation.

BIG SANDY COMMUNITY & TECHNICAL COLLEGE

Big Sandy has dual credit offerings online each semester for high school students during their senior year. Seniors must meet all ACT benchmarks and there is a tuition fee charged by Big Sandy in addition to course materials that may be needed. The KHEAA dual credit scholarship may be available to help with the cost. Some of these include College Algebra, Achieving Academic Success, US History, Psychology, and others. Course availability varies by semester. Students who take an online dual credit course should be independent learners with no problems with procrastination. Course offerings change each semester. Contact the guidance office for a list.

EASTERN KENTUCKY UNIVERSITY

EKU offers an online Criminal Justice pathway for high school students. Students can take up to 4 dual credit courses in criminal justice and police procedures during junior and/or senior year. Students must meet all ACT benchmarks, and ECU offers scholarships based on GPA and ACT scores to help with the cost of tuition. Courses include: Introduction to Criminal Justice, Police and Crime, Corrections, and Criminal Investigations. Students who take an online dual credit course should be independent learners with no problems with procrastination.