

# Lafayette High School

## Course Directory

### 2023-2024



One School  
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# Completing the Subject Choice Card

Lafayette is on the Alternating Day—Block Schedule System (A day and B day). In order to have a complete schedule, each student should choose 8 courses.

Most classes are full-year courses. However, some elective courses are only 1 semester, so you must choose two 1-semester courses to have a complete schedule. Below is a portion of a sample schedule card that has been completed.

Please list two (2) alternate elective courses in case some of your selections cannot, for some reason, be scheduled.

Course number	Course title		Teacher's Initials
	<b>English</b>		
230110.1321	English 2		
230110.1367	Adv English 2	✓	LG
	<b>English Electives</b>		
500511.3930	Introduction to Theatre	✓	
230402.2014	Adv Writing 101	✓	SM
230140.1992	Science Fiction Literature (1st sem.)	✓	
230140.3980	World Mythology (2nd sem.)	✓	

## Definition of Terms in the Course Directory

**Prerequisites** - Courses that must be successfully completed before the student is eligible to take a desired course are called “prerequisites”; they are listed at the end of each course description. Each prerequisite should be considered carefully to determine eligibility to take the course.

**Advanced Placement** - An Advanced Placement (AP) course is one using guidelines approved by The College Board with the expectation that students taking the Advanced Placement Exam will earn possible college credit. These courses are weighted when calculating rank in class and grade point average.

**Advanced Courses** - Some courses are taught at an advanced level.

**Elective Courses** - Courses in which the student's choice can be exercised, but which may count toward graduation, are called "electives."

**Required Courses** - Required courses are those specific courses required for graduation by the Kentucky Board of Education.

**Grade level requirement** - There are some courses throughout this Course Directory that are available to certain grade levels. Those courses have those grade levels identified. If there is no grade level specified, the course is available for grades 9-12.

**Grading Scales** - The following are the grading scales used at Lafayette:

Main grading scale: A = 100-90 • B = 89-80 • C = 79-70 • D = 69-60 • F = 59-50

Dual Credit grading scale: A = 100-90 • B = 89-80 • C = 79-70 • D = 69-60 • F = 59-0

**Quality Points** - The following points are awarded and used in determining Grade Point Average (GPA) and class rank:

A = 4 • B = 3 • C = 2 • D = 1 • F = 0

Advanced, AP and Dual Credit courses use a weighted point value in determining GPA and class rank. They are as follows:

A = 5 • B = 4 • C = 3 • D = 2 • F = 0

**Credit** - Typically, 1/2 credit is earned each semester per course successfully passed.

**Fees** - These are set by the Fayette County Board of Education and are subject to change. These can include technology/textbook fees in addition to course fees. Course fees within this Directory are for the school year unless otherwise noted.

**Phase Level** – To determine the level of difficulty in courses, look at the course title. Courses that are advanced have "Adv" or "Advanced" in the title. Courses that are Advanced Placement (or college paced) have "AP" in the title.

## Promotion Requirements

Class	Credits to earn
9 <sup>th</sup> grade to 10 <sup>th</sup> grade	6
10 <sup>th</sup> grade to 11 <sup>th</sup> grade	12
11 <sup>th</sup> grade to 12 <sup>th</sup> grade	18
To Graduate	26

The following page illustrates the specific courses that are required for graduation. As will be seen, there are electives required, which afford students the opportunity for choice in course selection.

## Lafayette Minimum Graduation Requirements

SUBJECT	CREDITS	COURSES
<b>English</b>	4	English 1, 2 & two add'l English credits
<b>Mathematics</b>	4	Alg. 1, Geom., Alg. 2 & one add'l math cr.
<b>Science</b>	3	Int. Phy. E/Sp, Int. Chem. E/Sp, Biology
<b>Social Studies</b>	3	Adv Government, Adv World History, Adv U.S. History
<b>Health &amp; PE</b>	1	Health & Physical Education
<b>Arts &amp; Humanities</b>	1	VPA (or 3 arts courses in same discipline)
<b>Electives</b>	10	Student choice
<b>Totals</b>	<b>26</b>	

## Pre-College Recommendations for Public Universities

SUBJECT	CREDITS	COURSES
<b>English</b>	4	English 1 & 2; two add'l English credits
<b>Mathematics</b>	4	Alg. 1, Geom., Alg. 2 & one add'l math cr.
<b>Science</b>	3	Intro Physics E/Space, Biology, Chemistry
<b>Social Studies</b>	3	Adv Government, Adv World History, Adv U.S. History
<b>Health &amp; PE</b>	1	Health & Physical Education
<b>Arts &amp; Humanities</b>	1	VPA ( or 3 arts courses in same discipline)
<b>World Language</b>	2	French, Japanese or Spanish
<b>Electives</b>	8	Student choice
<b>Totals</b>	<b>26</b>	

## Pre-College Recommendations for Selective Colleges

SUBJECT	CREDITS	COURSES
<b>English</b>	4	Advanced or AP
<b>Mathematics</b>	4	Advanced or AP
<b>Science</b>	4	Advanced or AP
<b>Social Studies</b>	3–4	Advanced or AP
<b>Health &amp; PE</b>	1	Health & Physical Education
<b>Arts &amp; Humanities</b>	1	Advanced (or 3 arts courses in same discipline)
<b>World Language</b>	4	Advanced or AP
<b>Electives</b>	3–4	Student choice
<b>Totals</b>	<b>26</b>	

## Possible High School Schedule Scenarios

### Minimum Graduation Requirements

9th grade	10th grade	11th grade	12th grade
English 1	English 2	English course	English course
Algebra 1	Geometry	Algebra 2	math course
Intro Physics E/Space	Intro Chem. E./Sp.	Biology	Elective
Adv Government	Adv World History	Adv U.S. History	Elective
Elective	Health & PE	Adv Vis./Perf. Arts	Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective

### Minimum Pre-College Requirements

9th grade	10th grade	11th grade	12th grade
English 1	English 2	English course	English course
Alg. 1 / Adv Geom.	Geometry / Alg. 2	Alg. 2/Alg. 3 /Precal.	PreCal. or Calc. 1
Intro Physics E/Space	Biology	Chemistry	Physics
Adv Government	Adv World History	Adv U.S. History	Elective
World Language	World Language	Adv Vis./Perf. Arts	Elective
Elective	Health & PE	Elective	Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective

### Accelerated Pre-College Curriculum

9th grade	10th grade	11th grade	12th grade
Adv English 1	Adv English 2	AP English Language	AP Eng. Lit./Dual Cr.
Adv Geometry	Adv Alg. 2 / Adv Precalculus	Adv Precal. or Adv Calc. 1	AP Calc. AB or BC / AP Statistics
Adv Intro Physics E/Space	Adv Biology	Adv Chemistry	Adv or AP Physics / AP Bio. / AP Chem.
Adv Government	Adv/AP World Hist.	Adv/AP U.S. History	Adv/AP elective
World Language	World Language	Adv World Language	Adv/AP World Lang.
Elective	Health & PE	Adv Vis./Perf. Arts	Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective

# ART

**Note: Students may be required to purchase additional supplies for ALL art courses.**

## **Art 1**

**Credit: 1**

Students will create a series of projects throughout the year which explore art materials, concept development, and practical applications of art skills. Art 1 introduces students to the elements of art and principles of design through the creation of two-dimensional and three-dimensional artworks. Art 1 helps students develop an understanding of and appreciation for the arts. Projects may include drawing, painting, paper and clay sculpture, printmaking, and mixed media. Additional fee: \$50.

## **Crafts**

**10th-12th**

**Credit: 1**

Students will focus on functional artworks through a variety of materials and projects based on the crafts industry. Students will learn how to create and market their work while refining their understanding of design. Projects may include: papercrafts, macrame, crocheting, knitting, weaving, sculpting in clay, papier-mache, sewing and jewelry-making. Additional fee: \$70.

## **Drawing 1**

**Credit: 1**

Students in this course will develop foundational drawing skills, real-world application of drawing skills, and explore concept development. Students learn how to sharpen their observational skills, develop their imagination, and use a variety of materials. Projects may include portraiture, landscapes, observational drawing, character and story-development, anatomy studies, and plein air drawing (drawing from observation outside). Additional fee: \$50.

## **Drawing 2**

**10th-12th**

**Credit: 1**

Students who have developed their foundational skills in Drawing 1 will continue their growth in Drawing 2. This class emphasizes concept, personal style development, and advanced drawing processes. Projects may include architecture, character designs, media explorations, old-school animation, observational drawing, and non-traditional techniques. Prerequisite: Drawing 1. Additional fee: \$50.

## **Painting 1**

**10th-12th**

**Credit: 1**

Students will explore the foundational techniques essential to painting techniques and media. Using both traditional and non-traditional materials, students will paint varied subject matter including landscape, architecture, portraiture, and abstraction. Students will also learn about many different historical and contemporary painters. Painting media explored may include acrylic, watercolor, spray paint, and oil. Additional fee: \$70.

## **Painting 2**

**11th-12th**

**Credit: 1**

Students who develop their technique and experience in Painting 1 will continue their growth in Painting 2. Students will learn more advanced painting techniques and processes, develop their own concepts, and experiment with subject matter and media. Prerequisite: Painting 1. Additional fee: \$70.

## **Beginning Pottery**

**10th-12th**

**Credit: 1**

Students will develop foundational skills of working with clay using hand-building techniques. Students will create functional and decorative sculptures using the most essential methods of slab, coil, and pinch construction. Projects may include cups, mugs, bowls, and collaborative sculptures. Additional fee: \$70.

## **Pottery 2**

**11th-12th**

**Credit: 1**

Students who develop their foundational skills in Pottery 1 will expand their skills in Pottery 2. Construction and glazing skills will become more advanced and expand to wheel throwing. Projects may include screen printing on clay, under glazing technique, decorative surface skills, functional pottery series, and decorative pottery series. Prerequisite: Beginning Pottery. Additional fee: \$70.

**Visual Art: Sculpture****10th-12th****Credit: 1**

Students will utilize a variety of materials to create three-dimensional artworks. Students will develop unique concepts and explore the four main sculptural techniques to enhance their understanding of form and space. Projects and materials may include plaster gauze, carving, leather masks, clay, papier-mache, papercraft, found object, and mixed media. Additional fee: \$70.

**Digital Imaging****Credit: 1**

Students will learn about photography as a tool and an art form. Concepts to be covered include: the history of photography, the photographic process, camera techniques, composing and taking photographs, elements of successful photographic design, digitally produced special effects, and presentation of work. This course will expose students to career opportunities in photography. Required: Flash drive (8 GB). Additional fee: \$70.

**Interactive Design (Film / Animation)****Credit: 1**

Students will use creative and conceptual aspects of designing and producing interactive media arts experiences, products, and services. This includes film/videography and photography techniques, animation development, interface design and social media applications. Students in interactive design will gain valuable and applicable technology skills informed by the creative process. This course is an introduction to and survey of the creative and conceptual aspects of designing media. Additional fee: \$70.

**Adv Moving Image Animation****10th-12th****Credit: 1**

This course is the second level of Film/Animation; Must have successfully completed Interactive Design before enrolling. Students will build on skills associated with character design, animation, filming, film structure/production, special effects, and editing. It is a project-driven class where students can experiment with creating their own original works through a variety of media. At the end of the course students have the option to earn industry certifications related to film, animation, and digital media. Prerequisite: successful completion of Interactive Design. Additional fee: \$70

**Introduction to Media Arts****Credit: 1**

This course is designed for students who have an interest in graphic design or commercial arts. Students will learn fundamentals of visual art, design principles and concepts with computer-assisted methods using Adobe Photoshop and Illustrator software. Topics include photo/raster/bitmapped-based scanning, image editing, optimization for web and print. Additionally, current graphic design methods and styles will be integrated as well as professional practices in real world settings. Additional fee: \$70.

**Two-Dimensional Media Design****10th-12th****Credit: 1**

The second level of our Media Arts pathway that also leads to industry certifications in Adobe software. Students in this course will further develop skills learned in Introduction to Media Arts with an emphasis on using Adobe Illustrator. Students will create illustrations, logos, graphics, and other digital art with a focus on building their artistic portfolio and preparing for several contemporary career fields. Additional fee: \$70.

**Advanced Production Design****11th-12th****Credit: 1**

This third level in our Media Arts pathway, students will focus on honing their graphic arts skills to demonstrate they are qualified to enter the workforce and/or university within this field. This course leads to industry certifications in Adobe software. Students will learn advanced and independent use of compositional theory, techniques, and creative processes within media arts. An in-depth study of career opportunities in media art is explored. Projects explore various print mediums such as magazines, newspapers, product wrappers, and displays. Additional fee: \$70.



## Media Arts Internship

11th-12th

Credits: 2-4

This course provides students pursuing CTE Media Arts courses with work-site experience. Students will work as an intern with a media entity and are responsible for securing an approved internship location. Students must communicate with the instructor to confirm plans and placement for approval. **Note: Only one credit of Internship may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled to earn at least 5 total credits for KEES qualification.**

## AP 2D Art & Design

12th

Credits: 2

Students interested in developing a professional portfolio for college-level credit will be challenged through a series of in-depth art projects. Students will decide the type of portfolio they want to develop, engage in peer-to-peer critiques, develop complex concepts, demonstrate mastery of a variety of techniques, complete sketchbook assignments, and revise artworks for refinement and presentation. This course is in preparation for the AP 2D Art & Design Exam, therefore is a rigorous class requiring more time and commitment than other arts classes. **Note: Students must communicate with the instructor for an artwork review.** Additional fee: \$70.

# BUSINESS & MARKETING

## Accounting & Finance Foundations

10th-12th

Credit: 1

This full-year course will provide a study of the principles of accounting. Students will develop skills in payroll records, taxes and reports, special journals, depreciation, notes and interest, inventory control and corporate reports. Automated accounting concepts will be introduced. Additional fee \$10.

## Accounting 201 Dual Credit

10th-12th

Credit: 1

Financial Accounting presents generally accepted accounting principles used for the measurement and reporting of financial information in the financial statements. This BCTC online course will be facilitated in class by a Lafayette teacher and is paired with ACC 202. Prerequisite: successful completion of Algebra 1. **Note: there might be a college fee required to take this course.**

## Accounting 202 Dual Credit

10th-12th

Credit: 1

Managerial Accounting is an introduction to the use of accounting data within an organization to analyze and solve problems and to make planning and control decisions. This BCTC online course will be facilitated in class by a Lafayette teacher and is paired with ACC 201. Prerequisite: successful completion of ACC 201. **Note: there might be a college fee required to take this course.**

## Advanced Marketing Applications

10th-12th

Credit: 1

This “school store” course is designed as an in-depth study of merchandising techniques and management skills. This course is based on the business and marketing core that includes communication skills, economics, operations, distribution and product/service management. Leadership development will be provided through DECA activities and competitive events. Prerequisite: successful completion of any marketing course. Additional fee \$8.

## Business & Marketing Essentials

9th-10th

Credit: 1

This full-year course will provide a basic foundation for further study in business and marketing classes. It will offer experiences in all phases of money management and using the services of financial institutions. Automobile insurance, home insurance, life insurance, social security and the tax system will be covered. Additional fee \$8.

## Digital Literacy

Credit: 1

The student will utilize Microsoft Office and develop “touch” keyboarding skills, proper techniques, speed and accuracy in keyboarding for professional and personal use. Course content includes word processing, spreadsheets, desktop management and electronic communication. In addition, the *G Suite of Tools* (from Google) will be explored. Additional fee \$8.



## Ethical Leadership

**Credit: 1**

This is a principles-based ethics course introducing students to key leadership and ethical knowledge and skills, including integrity, trust and accountability. Throughout the course, students apply ethical principles to real-world situations that young adults often encounter in school, at home, with friends, and in entry-level job positions. They examine the concept of ethical leadership and strengthen their leadership and ethical decision-making skills through the planning, implementation, and evaluation of at least one class service-learning project. Additional fee \$8.

## Microsoft Office

**10th-12th**

**Credit: 1**

As an extension of Digital Literacy, students will have the opportunity to increase their computer skills. Advanced functions and integration of Microsoft Word, Excel, Access, and PowerPoint will be taught. Students will work toward *MOS/MCAS Certification* in one or more of these Microsoft areas. In addition, students will utilize internet access to complete various projects. Prerequisite: Digital Literacy. Additional fee \$8.

## Personal Finance

**10th-12th**

**Credit: 1**

This course is designed to provide students with the knowledge and skills to manage one's financial resources effectively for lifetime financial security. Topics include savings, investment options and retirement planning, budgeting, credit and consumer rights. Leadership development will be provided through DECA. The course is a math credit but **does not** fulfill the NCAA Eligibility Center criteria. Additional fee \$8.

## Personal Finance BAS 120 Dual Credit

**11th-12th**

**Credit: 1**

This course provides information needed to make intelligent choices and to take effective action in the management of personal resources. Applies financial planning, buying, borrowing, saving, budgeting, investing, insurance, and taxes to personal finances. Prerequisite: successful completion of Algebra 2. While the course is a high school math credit it **does not** fulfill requirements for a college math credit. This course is paired with Study Hall. **Note: there might be a college fee required to take this course.**

## Principles of Marketing

**Credit: 1**

Students will study the development of products and then explore what occurs in the marketplace by studying purchasing, pricing and distribution functions. Decision-making and problem-solving skills are involved in most units. The employment skills learned will improve and increase the chance for successful transition into the world of work. This course qualifies students for Marketing Education Co-Op as a senior. Additional fee \$10.

## Real Estate Principles 100 Dual Credit

**11th-12th**

**Credit: 1**

Introduces real estate as a business and as a profession, designed to acquaint the student with the wide range of subjects necessary to the practice of real estate. Includes license law, ethics, purchase and listing agreements, brokerage, deeds, financing, appraisals, mortgages, and real estate property managements. This course is paired with REA 120. **Note: there might be a college fee required to take this course.**

## Real Estate Principles 120 Dual Credit

**11th-12th**

**Credit: 1**

Includes marketing and selling of real estate properties. Emphasizes qualifying prospects, preparing for property showings, negotiating the sale, developing a five-year goal plan, and managing time. Prerequisite: successful completion of REA 100. A student who is 18 and has successfully completed REA 100 and REA 120 will be eligible to take the Kentucky Real Estate licensure exam (not included in the course fee). This course is paired with REA 100. **Note: there might be a college fee required to take this course.**

## Intro. to Business BAS 160 Dual Credit

**10th-12th**

**Credit: 1**

Introduces business careers, terminology, and the interrelationships of business topics. Presents the complexities of business and the impact on communities and their economies. This course is paired with Study Hall. **Note: there might be a college fee required to take this course.**

## Sports & Event Marketing

Credit: 1

Students will study the marketing of any number of consumer products and services through the utilization of the sports enterprise. Students will understand concepts and strategies needed to communicate information about products and services to achieve maximum return and meet customers' expectations. Students will learn the economic principles and concepts fundamental to marketing within a sports context. This course qualifies students for Marketing Education Co-Op as a senior. Additional fee \$8.

## Business Education Co-Op

12th

Credit: 2-4

This senior year course **requires** a student to work in a paid business position for a minimum of fifteen hours per week (no home-based work). The work is supervised by a coordinating teacher. In addition, the student is enrolled in a one-block Business class. Prerequisite: any of several business courses; see your current business teacher for details. **Note: Only one credit of Co-Op may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled, including a morning Business class, to earn at least 5 total credits for KEES qualification.** Additional fee \$15.

## Marketing Education Co-Op

12th

Credit: 2-4

This senior year course **requires** a student to work in a paid retailing position for a minimum of fifteen hours per week (no home-based work). The work is supervised by a coordinating teacher. In addition, the student is enrolled in a one-block Retail Marketing Management class (\$10). It is designed to enhance marketing skills developed in the marketing prerequisite courses and to learn advanced marketing skills in such areas as advertising, customer service, supervision, and employee/employer relations for a wide range of marketing careers. It is based on the business and marketing core that includes communication skills, emotional intelligence, economics, marketing, operations, promotion, marketing-information management and financial analysis. Leadership development will be provided through DECA activities and competitive events. Prerequisite: Principles of Marketing **or** Sports & Event Marketing. **Note: Only one credit of Co-Op may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled, including the morning Retail Marketing Management class, to earn at least 5 total credits for KEES qualification.** Additional fee \$15.

# ENGLISH

## English 1

9th

Credit: 1

The course integrates composition, literature and language studies, incorporates abstract thinking, creative problem solving and other higher-level reasoning skills. A critical study of literary style is also covered.

## English 2

9th-10th

Credit: 1

An integrated study of literature, composition and language will also incorporate effective oral and written communication studies. Narrative, descriptive, analytical and expository writing will be prepared and vocabulary expanded. Discussion and problem solving will also be included. Prerequisite: successful completion of English 1.

## AP Seminar

9th-10th

Credit: 1

This is a foundational research course that aims to equip students to analyze and evaluate information in order to craft and communicate evidence-based arguments. This course fulfills the English 2 graduation requirement. This course is a preparation for the AP Seminar exam. Prerequisite: English 1. Additional fee: \$20

## English 3

10th-11th

Credit: 1

Literature, composition and language will be studied in an integrated process to develop better comprehension and application skills. Oral and written activities will be emphasized as a means of learning. Critical and analytical perspectives will be examined in relation to the material studied. Prerequisite: successful completion of English 2 or AP Seminar.

**AP English Language & Composition****10th-11th****Credit: 1**

Comparable to a college composition class, this course provides training for the skilled reading of prose written in a variety of periods and rhetorical contexts. Both reading and writing are used to illuminate the interaction between author's purpose, audience needs, the subject itself, generic conventions, syntax, word choice and tone. This course is a preparation for the AP English Language & Composition exam. Prerequisite: successful completion of English 2 or AP Seminar. Additional fee \$20.

**Adv English 4****12th****Credit: 1**

Literature, composition and language will be studied in an integrated process to strengthen and prepare students for college-ready status. Writing to learn and flexibility in writing will be emphasized as students respond to literature, adjust purposes and consider varied audiences. Abstract thinking and creative problem-solving with an analytical focus will prepare students to communicate with others in academic-world and real-world settings.

**AP English Literature & Composition****12th****Credit: 1**

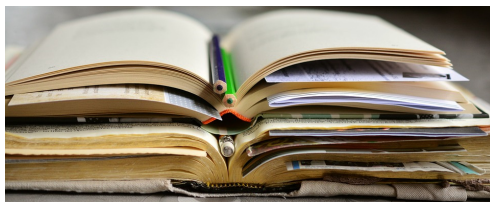
This course provides for a careful reading of literary works for the purposes of developing critical standards for the independent sensitivity to literature as shared experience. The individual work, its structure, meaning and value are studied. The study and practice of writing will be included and textual, critical and interpretive responses to literature will be required. The course is a preparation for the AP English Literature & Composition exam. Additional fee \$20.

**English 101 Dual Credit****12th****Credit: 1**

This course fulfills the 1st semester of the English 4 course requirement, as well as the first semester of college English. It focuses on academic writing and provides instruction in drafting and revising essays that express ideas in Standard English, including reading critically, thinking logically, responding to texts, addressing specific audiences and researching and documenting sources. A completed Bluegrass Community & Technical College (BCTC) application is needed. This course is paired with English 102. **Note: there might be a college fee required to take this course.**

**English 102 Dual Credit****12th****Credit: 1**

This course fulfills the 2nd semester of the English 4 course requirement, as well as the second semester of college English. It emphasizes argumentative writing and provides further instruction in drafting and systematically revising essays that express ideas in Standard English. Additionally, it includes continued instruction in and practice in reading critically, thinking logically, responding to texts and researching and documenting credible academic sources. A completed BCTC application is needed. Prerequisite: English 101. **Note: there might be a college fee required to take this course.**



## Visual & Performing Arts

**Advanced Visual & Performing Arts****11th-12th****Credit: 1**

Students will study the cultural and historical significance of art, music, dance, theatre and architecture. The course content includes a study of the evolution of these art forms and is designed to broaden student appreciation of the role of the arts in human culture. This course fulfills the graduation requirements for the Arts and Humanities. Additional fee: \$8.

# English Electives

## **Advanced African American Literature**

**Credit: 1**

Students will explore the complicated history and progress of African American literature and analyze the craft of major African American writers to develop and strengthen skills in reading, writing and critical thought with literature.

## **Advanced Speech**

**Credit: 1**

This course explores a wide variety and range of public speaking skills including: extemporaneous speaking, original oratory, oral interpretation and storytelling. Students will sharpen research, questioning and rebuttal skills. Students will analyze pieces of literature, create and deliver orations, write arguments and evaluate performances. When available, there is also the opportunity to participate in Speech and Debate competitions via the Lafayette Speech and Debate Team.

## **Advanced Writing 101**

**Credit: 1**

This is a writing workshop course. Students will explore various styles of writing by reading and writing poetry, short stories, vignettes and essays. Further, students will participate in Genius Hour to develop their own writing skills by creating an inquiry question to explore throughout the year. Genius Hour allows students to explore their own passions and encourages creativity while providing students a choice in what they learn during school. In the past, students' Genius Hour work has included learning to write a novel, starting a blog, writing and filming a movie.

## **AP Art History**

**10th-12th**

**Credit: 1**

AP Art History is an in-depth, chronological survey of painting, photography, architecture and sculpture within the Western tradition along with selected works from a variety of cultures beyond the European tradition. Formal and contextual analyses are the primary skills which will move students toward masterful discussion and understanding of the visual arts. This course will prepare students for the AP Art History exam. Additional fee: \$20.

## **AP Research**

**10th-12th**

**Credit: 1**

AP Research allows students to deeply explore an academic topic, problem, issue or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in AP Seminar by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Prerequisite: successful completion of AP Seminar. Additional fee: \$20.

## **Science Fiction Literature**

**Credit: .5**

A course for students with active imaginations, who are interested in role-playing activities, visions of the future with all of the predictions that have come to pass, and science and technology and its role in literature. This course is paired with World Mythology.

## **World Mythology**

**Credit: .5**

This course will review world mythology and its influence on civilization as evidenced through numerous pieces of literature. Composition will include analysis, comparison and explication as well as other types. This course is paired with Science Fiction Literature.



## Journalism

Credit: 1

This course offers in depth experiences in journalism. Language arts skills will be used to write news articles, feature articles and opinion pieces on school sports, clubs, events, student achievements and student issues. Topics of study will include: journalistic writing and production, copy editing, headline writing, journalistic research, interviewing, photography, and electronic layout and design. Students will publish their writing on *The Lafayette Times* website. Advanced credit is available for students in years two, three and four. **Application required.** Additional fee: \$25.

## Yearbook

10th-12th

Credit: 1

This course covers all aspects of producing a yearbook, including the following special emphases: marketing (selling \$300 of business/recognition advertisements, assisting with book promotion and sales), journalistic writing, photography, real-world communication (via email, meetings, etc.) and principles of layout design and web-based publication. An ideal yearbook student is confident, independent, comfortable talking to others and forward thinking. Students are required to go to places of business for ad sales, attend school functions and meet deadlines. General language skills will be refined and the techniques of yearbook production will be practiced with the yearbook as the final project. **Application required.**

# ENGLISH LANGUAGE LEARNERS

English Language Learner (ELL) courses are provided for all non-English speaking students, grades nine through twelve, with the exception of foreign exchange students. Students who qualify for the ELL program are identified through the Home Language Survey and English proficiency testing which is done at the Board of Education offices. The goal of the program is to help English language learners achieve a level of proficiency in English which will allow them to be successful in mainstream classes. The ELL program includes classes in English, reading and social studies.

## Experience Based Career Education (EBCE)

12th

Credit: 2-4

Academic Internships through the EBCE program are designed to utilize the entire community as a classroom. Seniors are provided opportunities to observe, study and apply academic skills in a variety of businesses and industries, as well as public and private agencies. While spending two or more hours a day in the internship program, a student can earn 2-4 academic credits. Students select their own internship experiences from a list of over 1,000 established community sites. The internship Advisor assists the student in examining personal interests, abilities, aptitudes and relating them to career opportunities. The *Community Service* course is an option should seniors not be accepted into the EBCE program (\$15). **Note: Only one credit of EBCE, or Community Service, may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled to earn at least 5 total credits for KEES qualification.** Additional fee \$15.



# FAMILY & CONSUMER SCIENCES

## Life Skill Essentials

9th-10th

Credit: 1

This comprehensive course provides an opportunity for acquiring basic life skills and allows students to select specific areas for concentrated study. Emphasis is on work and family, adolescent development, selection and care of clothing, consumer spending, housing choices, challenges of child rearing and guidance in establishing relationships. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA), a student organization. Additional fee: \$30.

## Money Skills for Math

Credit: 1

This course is designed to prepare students to understand and use sound financial management skills and practices contributing to financial stability. Decision making, problem solving, goal setting and using technology are integrated throughout the content. This course is a math credit but **does not** fulfill the NCAA Eligibility Center criteria. Additional fee: \$20.

## Foods & Nutrition

10th-12th

Credit: 1

Gourmet foods will be emphasized in this course covering a wide variety of cooking techniques through demonstration and foods lab experience. Emphasis will be given to methods of making food appetizing and attractive such as garnishing. Additional fee: \$60.

## Culinary Arts 1

10th-12th

Credit: 1

This advanced course allows students to increase competencies in a variety of food preparation techniques. Emphasis will be placed on food presentation, garnishing, menu planning and the skills necessary to prepare for a career in the culinary arts profession. Additional fee: \$60.

## Culinary Arts 2

11th-12th

Credit: 1

In this course, students resume progress in pursuing competencies in food production and services. Development of food preparation skills are reinforced. Food service management functions are introduced. More in-depth information is provided and higher levels of skills are taught. Time is provided for work based learning opportunities and competition through the Pro Start program. Prerequisite: Culinary Arts 1. Additional fee: \$60.



**Culinary Arts Co-Op****12th****Credit: 2-4**

This full year course **requires** students to work in a paid Culinary Arts position for a minimum of fifteen hours per week. The field site work is supervised by a coordinating teacher. Prerequisite: Culinary Arts 1. **Note: Only one credit of Co-Op may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled to earn at least 5 total credits for KEES qualification.** Additional fee: \$15.

**Fashion & Interior Design 1 & 2****10th-12th****Credit: 1**

These courses provide opportunities for students to develop career competencies in the fashion and/or interiors industry by applying information related to social, economic and media influences. Students apply knowledge of design principles and processes through skill performance activities. Work experience will be explored. Prerequisite for Fashion & Interior Design 2 is Fashion & Interior Design 1. Additional fee: \$25.

**Fashion & Interior Design Co-Op****12th****Credit: 2-4**

This full-year course **requires** students to work in a paid Fashion & Interior Design position for a minimum of fifteen hours per week. The field site work is supervised by a coordinating teacher. **Note: Only one credit of Co-Op may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled to earn at least 5 total credits for KEES qualification.** Additional fee: \$15.

**Early Lifespan Development****Credit: 1**

Students will have the opportunity to study the social, emotional, physical and mental development of the preschool child. Through work with preschool children in a playschool setting, students will gain experiences in planning and implementing creative activities, practicing positive guidance techniques and observing children's behavior. Additional fee: \$30.

**Parenting****10th-12th****Credit: 1**

This course is designed to aid students in developing parenting and care-giving skills. Major topics include becoming an informed parent, understanding prenatal development, caring for the newborn among others. This course is part of the Early Childhood Education pathway. Additional fee: \$25.

**Principles of Teaching****11th-12th****Credit: 2**

This course provides opportunities for students with an interest in teaching to develop skills, strategies, and techniques used for instruction at various grade levels for a diverse population of student learners. Instruction addresses the principles and procedures for promoting the physical, emotional, social, and intellectual development of children, adolescents, and developmentally appropriate practices in educational settings. Prerequisite: Early Lifespan Development and Parenting and teacher's approval.

**Child Development Services 1****11th-12th****Credit: 1**

This full-year course **requires** training for entry-level positions in day care centers, nurseries, kindergartens and private homes. Students study careers in child development, child development and guidance, children's health and well-being in group care, value of play, teaching strategies and management and curriculum development. Students may have the opportunity to participate in field experiences a local childcare facilities. Prerequisite: Early Lifespan Development. Additional fee: \$60.

**Early Childhood Education Co-Op****12th****Credit: 2-4**

This full-year course **requires** students to work in a paid child development position for a minimum of fifteen hours per week. The field site work is supervised by a coordinating teacher. **Note: Only one credit of Co-Op may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled to earn at least 5 total credits for KEES qualification.** Additional fee: \$15.

# HEALTH/PHYSICAL EDUCATION



## Controlling Stress 1

**Credit: 1**

This course will examine the relationship between body and breath as it relates to our overall state of wellness. Students will practice yoga and mindfulness, effective communication and complete journal entries. Guest speakers will share their perspective on various stress reduction modalities. **This course is an elective; it does not count for the required Physical Education course.** Additional fee: \$10.

## Fitness & Weight Management

**9th**

**Credit: 1**

In this course students will begin by assessing their current physical condition. With the instructor's assistance, students will set realistic goals to reach personal health-related objectives. Students will learn about exercise, conditioning and basic concepts of fitness. They will also participate in a variety of physical activities which will contribute to their fitness. **This course is an elective; it does not count for the required Physical Education course.** Additional fee: \$20.

## Health Education

**Credit: .5**

This course will involve discussing the topics of mental health, drugs, alcohol and tobacco, sex education, sexually transmitted diseases, infectious diseases, safety and first aid, cardiopulmonary resuscitation (CPR), nutrition, consumer health and non-infectious diseases. Additional fee: \$20.

## Physical Education

**Credit: .5**

This course will involve the teaching of lifetime leisure sports, individual sports and team sports. Skills learned will be reinforced and advanced skills will be introduced. Additional fee: \$20.

## Physical Education 2

**11th-12th**

**Credit: 1**

In this course, students will study information that will assist them for the rest of their lives. One of the leading issues that faces our community, and nation, is obesity. Students will combat the statistic that puts Kentucky as one of the leading states in obesity and other sedentary lifestyle diseases. Students will have the opportunity to receive all of the benefits that come from regular activity. Prerequisite: Health & PE. Additional fee: \$20.

## Conditioning for Men / Women

**11th-12th**

**Credit: 1**

These courses offer students the opportunity to improve their overall fitness through conditioning techniques to prevent, or reduce, overweight and obesity trends. Students will write fitness and nutrition plans which can then be applied to their everyday lives. Note: sections split by gender. Women's section to be placed in the last block of the day. Additional fee: \$20.



# MATHEMATICS

Four credits in mathematics are required for graduation. **Note: The Kentucky Department of Education requires that students must complete Algebra 1, Geometry and two additional math credits to be aligned with the Kentucky Academic Standards (KAS) for Mathematics.**

## Algebra 1

9th

Credit: 1

This course is designed for students who are proficient in basic mathematics and have mastered pre-algebra skills. The objective of Algebra 1 is to develop skills in algebraic manipulation and to give students an understanding of algebra by emphasizing concepts, structure and applications.

## Geometry

Credit: 1

Emphasis is placed on discovery, proof and realistic applications of geometric relationships and principles. Topics will include constructions, inductive and deductive reasoning, points, lines, planes, angles, triangles, planar figures, similarity and congruence, circles, geometric solids, area, volume, locus, coordinate geometry and transformation. Prerequisite: Algebra 1.

## Algebra 2

Credit: 1

In addition to expanding on the mathematical concepts of Algebra 1 and Geometry, emphasis will be placed on preparation for study of higher mathematics - abstract thinking skills, the function concept and the algebraic solution of problems in various content areas. Prerequisites: Algebra 1 and Geometry.

## Algebra 3

Credit: 1

This course is intended for students who may be required to take a specialized calculus course in college. Topics may include, but are not limited to, relations and functions, complex numbers, matrices, vectors, sequences, series and probability. Prerequisites: Geometry or Advanced Geometry; Algebra 2 or Advanced Algebra 2.

## Adv Precalculus

Credit: 1

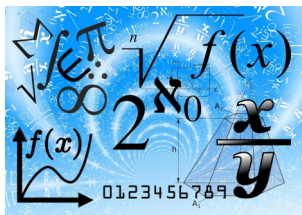
This course is intended for students who plan to take as a prerequisite to AP Calculus or as a fourth year math course to prepare for college. The course covers topics traditionally taught in trigonometry and analytic geometry plus additional functions, e.g., circular, polynomial, absolute value and natural number (sequences and series). Students intending to enroll in this course should have at least a B in all prior mathematics courses. Prerequisites: Advanced Algebra 2 or Algebra 3.

## AP Precalculus

10th-12th

Credit: 1

This course is intended for students to take as a prerequisite to AP Calculus or as a fourth year math course to prepare for college. The course covers additional topics to those in Adv Precalculus (polynomial, rational, exponential, logarithmic functions, analytic geometry, trigonometry and matrices) and the pacing of the course is faster than Adv Precalculus. The units comprise the content and conceptual understandings that colleges and universities typically expect students to master to qualify for college credit and/or placement. Prerequisites: Advanced Algebra 2 higher. Additional fee: \$20.



**Probability & Statistics****11th-12th****Credit: 1**

Probability & Statistics is a 4<sup>th</sup> year math course. It is designed to introduce the methods used in the field of applied statistics. Emphasis is given to basic concepts and techniques for collecting and analyzing data, calculating probabilities, establishing mathematical models for making predictions and conducting formal statistical inference based on sample data. There is also an advanced option available.

**Advanced Calculus 1****11th-12th****Credit: 1**

This course is designed for accelerated students who have successfully completed Adv Pre-Calculus. This course covers the material usually taught in differential and integral calculus. Prerequisite: Adv Precalculus.

**AP Calculus AB and BC****11th-12th****Credit: 1 each**

These are Advanced Placement courses covering the material usually taught in differential and integral calculus. Students who complete the course may: 1) take the AP exam in Calculus, or 2) if interested in attending the University of Kentucky, take their by-pass exam and to earn college credit. Students intending to enroll in these courses should have at least a B in all prior mathematics courses. Prerequisite: Adv Precalculus. Additional fee: \$20.

**AP Statistics****10th-12th****Credit: 1**

The course will include the study of distributions, relations in categorical data, random variables, use and abuse of tests and inference for linear regression. Students intending to enroll in this course should have at least a B in all prior mathematics courses. This course will prepare students for the AP Statistics exam. Prerequisite: Algebra 2. Additional fee: \$20.

**Math 150 Dual Credit****11th-12th****Credit: 1**

This course covers selected topics in algebra including a brief review of basic algebra, quadratic formula, systems of linear equations, introduction to functions and graphing. Students must have already satisfactorily completed two years of high school Algebra. A completed Bluegrass Community & Technical College application (BCTC) application is needed. Math 150 **does** fulfill the NCAA Eligibility Center criteria for student athletes in NCAA Division I and II member colleges and universities. Recommended: successful completion of Adv Precalculus. **Note: there might be a BCTC fee required to take this course in addition to an online textbook fee.**

**Math 170 Dual Credit****11th-12th****Credit: 1**

This course covers an introduction to differential and integral calculus, with applications to business and the biological and physical sciences. Students must have already satisfactorily completed two years of high school Algebra. A completed BCTC application is needed. Math 170 **does** fulfill the NCAA Eligibility Center criteria for student athletes in NCAA Division I and II member colleges and universities. Recommended: successful completion of Adv Precalculus. **Note: there might be a college fee required to take this course in addition to an online textbook fee.**

# Computer Science

## Introduction to Programming

9th-11th

Credit: 1

This course is intended to be an introductory course in programming. The content will be the basic syntax of programming language as well as control statements and loops. The emphasis will be on learning to write structured, readable and user-friendly programs in Python and Java. Prerequisite: completion of Algebra 1 with a C or better.

## AP Computer Science Principles

9th-12th

Credit: 1

This course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Students will be able to sit for the AP Computer Science Principles exam at the end of the course. Prerequisite: successful completion of Algebra 1 with a B or better. Additional fee: \$20.

## AP Computer Science A

11th-12th

Credit: 1

This course is designed to prepare students for further work in programming at the collegiate level. The emphasis is on learning to write structured, readable, well-documented programs in Java in addition to preparing students for the AP Computer Science A exam. Prerequisite: completion of Java Programming 1 with a B or better. Additional fee: \$20.

## Advanced Project-based Programming

10th-12th

Credits: 1

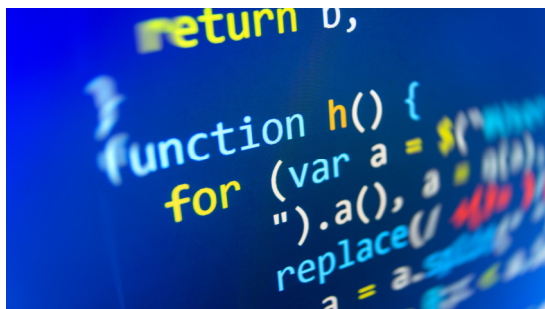
This project-based learning course engages those students with an entrepreneurial spirit that are interested in programming and in finding solutions to existing problems through the creation of applications. In this course, students will create projects that require computer science fundamentals and extensive research for successful completion. Students will work either solo or in a team to execute a project decided upon by the student(s). Students must learn and demonstrate proficiency in time management, scope, research, computer science, and teamwork to be successful in this course. Finally, students will engage in leadership skills by being held accountable for the completion of their tasks or project. Prerequisite: successful completion of AP Computer Science Principles or AP Computer Science A.

## Computer Science Internship

11th-12th

Credits: 2-4

This course provides students pursuing CTE Computer Science courses with a computer science work-site experience. Students will work as an intern with a computer programming entity and are responsible for securing an approved internship location. Prerequisites: instructor approval and successful completion of two courses in the computer sciences preferred. **Note: Only one credit of Internship may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled to earn at least 5 total credits for KEES qualification.**



# PERFORMING ARTS

**Note: Students enrolled in performing arts courses will be required to participate in out-of-school rehearsals and performances in order to satisfactorily complete these courses.**



## **Soprano-Alto Chorus & Theory (Women) Credit: 1**

This course includes the development of choral techniques through the study and performance of choral literature of varying periods and styles written for soprano/alto vocal ranges. The course uses supplementary materials related to general music education to develop the musicianship of the student. No audition required. Additional fee: \$50.

## **Tenor-Bass Chorus & Theory (Men) Credit: 1**

Same as Soprano-Alto Chorus above, but for tenor/bass vocal ranges. Additional fee: \$50.

## **Advanced Treble Choir Credit: 1**

This course includes the development of choral techniques through the study and performance of choral literature of varying periods and styles written for soprano/alto vocal ranges. The course uses supplementary materials related to general music education to develop the musicianship of the student. Prerequisite: open to students by interview and audition or by recommendation of the director. Additional fee: \$50.

## **SATB Chorus & Theory (Singers) Credit: 1**

This course includes the development of choral techniques while performing with a group of select students proficient in reading music. Instruction emphasizes advanced choral techniques which require accurate intonation, tone production, diction and interpretation. Theory is taught in context of music learned for performance. Experiences include a cappella singing and opportunities for solo and ensemble participation. Prerequisite: audition. Additional fee: \$50.

## **Madrigal Singers Credit: 1**

The Chamber Singers/Madrigal Singers is a small, advanced ensemble comprised of students who perform for civic groups, conventions, meetings, community events, etc., while giving students the opportunity to study various musical styles such as madrigals, motets, chamber music, folk and popular music. This class is designed for the student who wishes to be involved in a "second" vocal performance ensemble. Prerequisite: audition. Additional fee: \$50.

## **Chorale Credit: 1**

Students enrolling in this ensemble must demonstrate advanced music/sight reading ability and advanced vocal development. Theory concepts are taught through the performance repertoire. Experiences include primarily a cappella singing and opportunities for solo and ensemble preparation. Students should have prior ensemble experience. Prerequisite: audition / permission of director. Additional fee: \$50.

## Beginning Keyboarding

**Credit: .5**

This semester course is designed for students who have little or no musical keyboard experience. It is to be an exploratory course taught in a group setting. Basic topics covered will be note reading, rhythm reading and basic chord accompaniments. The class format will include individual practice time, group playing time and individual instruction time with the teacher. The course is structured as a guided, self-paced class allowing students of various levels the opportunity to succeed. Additional fee: \$20.

## Color Guard

**Credit: .5**

The semester course combines performance/competition preparation with equipment and movement instruction at the intermediate to advanced level. Students selecting this course are to understand that satisfactory completion will **require** out-of-school rehearsals and performances. Students will be trained in dance in addition to color guard equipment and work with flags, rifles and sabers. Prerequisites: audition / permission of director.



## Band & Theory

**Credit: 1**

This course is designed to provide students with an experience in marching band and concert band literature and fundamentals of music theory. Students selecting this course are to understand that satisfactory completion will **require** out-of-school rehearsals and performances. Marching arts are a core component of the Lafayette Band curriculum and develops a well-rounded band musician. Members of the three concert bands, jazz bands and percussion ensembles are members of the marching band. Prerequisite: All Band & Theory students should have previous playing experience or equivalent ability as determined by the director. Additional fee: \$50.

## Jazz Band & Theory

**Credit: 1**

This course is designed to provide an experience in the performance of jazz music. The course provides experiences in jazz concepts including fundamentals of jazz performance, interpretation, harmonic awareness and jazz improvisation. Students selecting this course are to understand that satisfactory completion will **require** out-of-school rehearsals and performances. Prerequisites: Jazz Band is an extension of the concert band program and builds on the foundational knowledge and skills developed in the concert bands and percussion ensembles. Audition and concurrent enrollment in a regular band or orchestra class.

## Introduction to Music Technology & Industry

**Credit: 1**

This course is designed for students interested in the fields of music and computer technology. Topics include podcasting, sequencing, music notation software, film scoring, digital recording and music industry to help students acquire the knowledge and skills contained in the music core content. Prior music class at Lafayette or concurrently taking another music course at Lafayette is highly encouraged.



### **String Orchestra**

**Credit: 1**

This course is designed for the student who needs to continue learning skills at the normal pace. In this class we work on intonation in multiple keys, shifting and reading in III position (extensions III, IV positions for cello) and foundations of vibrato. Students have a working knowledge of correct right and left hand shape and are working to refine their posture and technique. There is no audition requirement but students must have been enrolled in an orchestra program in middle school or another high school if transferring.

### **Concert Orchestra**

**Credit: 1**

This course is designed for the student who is currently working at a high level; higher positions and more complex key signatures are used. Students at this level need to already be comfortable using multiple positions with their instruments. These students have a relaxed left hand position with a polished vibrato and flexibility in right wrist and fingers allowing for more advanced bow techniques such as spiccato and legato. Students must audition for this placement.

### **Adv Symphonic Orchestra**

**Credit: 1**

This course is designed for the advanced musician. In this orchestra we read in all positions and in all keys. These students display the versatility in left and right hand technique needed to perform many styles of music with a developing musical sensitivity. After school rehearsals and sectionals will be required. Students must audition for this placement.

### **Adv Chamber Orchestra**

**Credit: 1**

This course is designed for very advanced students with fluid technique and mastery of all keys and positions. These students desire to express and enhance their musicality through chamber rehearsal and performance. Outside practice routine allows for in class rehearsals, not individual practice. After school rehearsals and sectionals will be required. Students must audition for this placement.

### **AP Music Theory**

**12th**

**Credit: 1**

This course is intended for students who will continue their study of music at the college level or for students who desire to further their understanding of the fundamentals of music. A goal of this course is to develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. It is designed to help students develop a thorough understanding of aural and written music theory. All students enrolled are expected to take the AP Music Theory exam. Prerequisite: concurrent enrollment in a school performance group, or letter of recommendation from a current private keyboard or fretted instrument teacher. Additional fee: \$20.

## **Introduction to Theatre**

**Credit: 1**

In this highly participatory and performance-based course students will be introduced to theatre performance elements including ensemble building, body, voice, improvisation, musical theatre and character development. Students will perform devised work and scenes in their performance-based finals. Intro is the perfect class for beginners as well as those who have had previous experience in theatre. Additional fee: \$40.

## **Theatre 2: Acting Techniques**

**10th-12th**

**Credit: 1**

This highly participatory and performance-based second year course offers serious theatre students an opportunity to focus on acting techniques such as Anne Bogart's *Viewpoints*, Augusto Boal's theatre for social change and Constantin Stanislavski's approach to acting. Students will create, perform and respond in units on Ensemble and Jobs in Theatre and they will devise site-responsive pieces and perform 10-minute plays for fall and spring finals. Prerequisite: successful completion of Introduction to Theatre. Additional fee: \$40.

## **Advanced Theatre 3: Theatre Theorists**

**11th-12th**

**Credit: 1**

In this highly participatory, interactive and practical third year course students will explore theatre theorists including Stella Adler, Stanford Meisner, Lee Strasberg, Viola Spolin and Uta Hagen. Students will perform and produce a one-act play and various devised pieces. Prerequisites: successful completion of Introduction to Theatre and Theatre 2 with an A or B and instructor's approval. Additional fee: \$40.

## **Advanced Theatre 4: Directing & Devising**

**12th**

**Credit: 1**

In this highly participatory, interactive and practical fourth year course, students will focus on directing and devising pieces of theatre. Students will explore the directing process from concept/theme through script analysis and staging. Students will direct dynamic scenes from classic and contemporary plays that will be fully mounted at the end of each semester. Students will learn the principles of devising and generate their own work based on themes, ideas and concepts of their own artistic interests. Students will create a showcase at the end of each semester. Prerequisites: successful completion of Introduction to Theatre, Theatre 2 and Theatre 3 with an A or B and instructor's approval. Additional fee: \$40.

## **Intro to Technical Theatre & Design**

**Credit: 1**

This highly participatory course introduces students to the many facets of theatrical production but will primarily focus on set design and construction, and costume design and construction. Students will explore the elements and principles of design as it applies to theatre scenic, costume, lighting, sound, and props design and construction. Students are exposed to many potential careers in Technical Theatre through a combination of traditional classroom learning and hands-on training. Topics include: safety and space, tools, hardware, paint, props, scale model design, and hand and machine sewing with various hands-on projects for each of those topics. Students in this course are encouraged, but not required, to participate in productions outside of the school day. The class also teaches the core life skills of communication, collaboration, critical thinking, and creativity. Students will assist in construction of all elements of the LHS fall play, spring musical, and Playworks student-directed festival. Additional fee: \$40.

## **Adv Technical Theatre & Design**

**10th-12th**

**Credit: 1**

This course is a highly participatory, project-based course that incorporates students of several levels. In this hands-on advanced course students will begin to work as designers and technical directors. Students will take a play from script to completion as part of a team of theatre artists collaborating together. Techs have the opportunity to specialize in particular areas, including stage carpentry, sound, lighting, scenic painting, prop management and design, and stage management. Students will be responsible for designing the set, lights, props, costumes, and sound for all LHS theatre and class productions. This course is repeatable up to three times. Prerequisite: successful completion of the Intro. course and instructor's approval. Additional fee: \$40.

# SCIENCE

Advanced courses are offered for students who have strong interests in pursuing advanced degrees or careers in science related fields.

## **Intro. Physics with Earth/Space Science      9th      Credit: 1**

This course includes topics in physics, chemistry and earth/space science. It is the first level course to provide an understanding of the major principals of each discipline and provide a foundation for further study in science. The course will emphasize an inquiry-based laboratory approach to assist students in developing and applying concepts in each area. Additional fee: \$8.

## **Biology      10th-11th      Credit: 1**

Course topics will include unity and diversity, cell structure and function, behavior of organisms' molecular basis of heredity, biological evolution and interdependence of organisms. Prerequisite for Adv Biology: successful completion of Algebra 1. Prerequisite for Biology: completion or current enrollment in Algebra 1. Additional fee: \$8.

## **Chemistry      10th-12th      Credit: 1**

Chemistry is the third science graduation requirement. Students will investigate the properties of matter, its interactions and factors affecting the interactions using a variety of means and technologies - labs, lectures, discussions and group activities among them. Technology will be used to collect and analyze data and to report findings throughout the course. Prerequisite: passed Geometry with a C or better and current enrollment in a higher math course. Additional fee: \$8.

## **Advanced Earth / Space Science      11th-12th      Credit: 1**

Advanced Earth / Space Science is a science elective. The topics included in this course are geology, meteorology, paleontology and formation of the solar system. Laboratory work will emphasize concepts and content that requires an understanding of geometry concepts. Prerequisites: successful completion of Algebra 1 and enrollment in Geometry or higher math course. Additional fee: \$8.

## **Adv Physics      10th-12th      Credit: 1**

This course will include the following topics: Newtonian Mechanics (kinematics, Newton's Laws, statics and dynamics); Conservation Laws (momentum and energy); Electricity and Magnetism. Once a conceptual framework has been constructed, students should be able to apply mathematics in order to solve complex physics problems. Since mathematics is the language of physics, students enrolling in this course should have a strong mathematics background. Prerequisite for Adv Physics: if students have not completed Adv Pre-Calculus, they must take it concurrently. Prerequisite for Physics: concurrent enrollment in Algebra 2. Additional fee: \$8.

## **AP Physics 1 & 2      11th-12th      Credit: 1**

These are two separate, full-year courses which allow students to achieve in-depth understanding. Students will have more time for hands-on explorations of physics content and inquiry labs. AP Physics 1 is the equivalent to a first semester college course in algebra-based physics. This course covers Newtonian mechanics, work, energy and power; mechanical waves and sound. Electric circuits will be introduced. AP Physics 2 is the equivalent to a second semester college course in algebra-based physics. This course covers fluid mechanics, thermodynamics, electricity and magnetism, atomic and nuclear physics. These courses do not have to be taken consecutively; one may be taken and not the other. They will prepare students for separate AP Physics exams. Prerequisite: successful completion of mathematics through Adv Precalculus. Calculus is strongly recommended as a co-requisite. Additional fee: \$20.



**AP Biology****10th-12th****Credit: 1**

AP Biology is an intense, laboratory-based, college-prep life science course that focuses on eight major themes including the following: science as a process (scientific method), evolution, the relationship between structure and function, regulation (cellular organism, and ecological), interdependency in nature and scientific advancement and society. The course is a preparation for the AP Biology exam. Prerequisites: include Adv Biology, Adv Chemistry\*, and Algebra 2\* (\*can be taken concurrently). Additional fee: \$20.

**Adv Organic Chemistry****11th-12th****Credit: 1**

This course will allow students to discover the fundamental structure and reactivity of carbon compounds through organic mechanisms. In addition, students will discover the 3D structures of various classes of organic compounds that make their chemical and physical behavior unique. Prerequisite: successful completion of Adv Biology and Adv Chemistry. Additional fee: \$8.

**AP Chemistry****11th-12th****Credit: 1**

AP Chemistry is a standardized program of study that provides an overview of freshman college general chemistry. Topics include kinetics, thermodynamics, atomic theory, organic chemistry, behavior of gases, descriptive and solution chemistry. College-level labs are included in this course. The course is a preparation for the AP Chemistry exam. Prerequisite: students should have completed Adv Chemistry with a B or better and be currently enrolled in an advanced math course (either Adv Precalculus or Adv/AP Calculus) and must have permission of current science teacher. Additional fee: \$20.

**AP Environmental Science****11th-12th****Credit: 1**

This interdisciplinary course provides students with the scientific principles and concepts necessary to understand the natural world. Students will analyze natural and man-made environmental problems, evaluate the risks associated with environmental issues and provide alternative solutions for resolving them. The course is a preparation for the AP Environmental Science exam. Prerequisites: successful completion of Adv Biology and successful completion, or concurrent enrollment, in Chemistry and Algebra 2. Additional fee: \$20.

**Advanced Human Anatomy****10th-12th****Credit: 1**

In-depth study of the anatomical and physiological functioning of human body systems from the cellular level to the organism level. Examples may include, but are not limited to, the skeletal system, muscular system, respiratory system, etc. Dissection may be a course requirement. Prerequisites: completed Adv Biology with at least a C average; completion or current enrollment in a Chemistry class; consent of current science teacher. Additional fee: \$15.



**Anatomy 107 Dual Credit****11th-12th****Credit: 1**

This course focuses on the study of basic chemistry, biochemistry, cell structure and function, tissues, the integument, and the skeletal, muscle, and nervous systems. A completed Kentucky State University (KSU) application will be completed at a later date. Prerequisite: successful completion of Adv Biology. This course is paired with Anatomy 108 Dual Credit. **Note: there might be a college fee required to take this course.**

**Anatomy 108 Dual Credit****11th-12th****Credit: 1**

This course is a continuation of BIO 107 with emphasis on the endocrine, digestive, respiratory, circulatory, urinary, and reproductive systems. It is paired with Anatomy 107 Dual Credit. **Note: there might be a college fee required to take this course.**

**Advanced Fresh Water Ecology****10th-12th****Credit: .5**

This one semester course explores the intricate relationships that exist among living things in ponds, streams and other fresh water environments. Emphasis will be placed on labs and field experiences. Prerequisites: successful completion of Biology and successful completion of, or concurrent enrollment in, Chemistry. This course is paired with Adv Marine Biology. Additional fee: \$8.

**Advanced Marine Biology****10th-12th****Credit: .5**

This one semester course acquaints inland-based students with the living aspects of our oceans and factors which affect those aspects. Emphasis will be placed on economic benefits and careers. Prerequisites: successful completion of Biology and successful completion of, or concurrent enrollment in, Chemistry. This course is paired with Adv Fresh Water Ecology. Additional fee: \$8.

**Advanced Microbiology****10th-12th****Credit: .5**

Advanced Microbiology is a laboratory-based course that is an extension of the concepts experienced in Advanced Biology. Students will investigate cellular function by studying cell structures. Proper laboratory techniques are stressed as infectious diseases and their relationships between microorganisms and humans will be studied. Prerequisites: completion of Adv Biology and completion, or concurrent enrollment, in Chemistry. Paired with Adv Plant Biology. Additional fee: \$8.

**Advanced Plant Biology****10th-12th****Credit: .5**

The focus in this course will be on both the individual plants (their anatomy and function) and communities of plants (ecology and geography), with attention given to classification and identification. Prerequisites: completion of Biology with at least a C and should have completed, or be enrolled in, Chemistry. Paired with Adv Microbiology. Additional fee: \$8.

**Advanced Biotechnology****11th-12th****Credit: 1**

This is a course that helps student become familiar with many biotechnology techniques including biological solution preparation, practices in aseptic techniques, chromatography, gel electrophoresis, and various protein assays. This course is the second in a series. Upon completion of the entire series, students will receive college credit through BCTC. Prerequisite: successful completion of Adv Biology and Biology teacher's approval. Additional fee: \$8.

**Industrial Biotechnology Internship****12th****Credit: 2-4**

The Industrial Biotechnology Internship course is designed to provide students with work-based learning through a mentored internship experience where students are able to apply the academic and technical competencies developed in Biotechniques 1, Biotechniques 2 and Laboratory Calculations in a biotechnology laboratory to solve real-world problems. Additional fee: \$8.

## Biology 112 Dual Credit

10th-11th

Credit: 1

This course focuses on the basic study of structure, function and interactions of living organisms including cell theory, genetics, energetics, evolution and ecology. A completed Bluegrass Community & Technical College (BCTC) application is needed. Prerequisite: successful completion of Algebra 1. This course is paired with Biology 113 Dual Credit. **Note: there might be a college fee required to take this course.**

## Biology 113 Dual Credit

10th-11th

Credit: 1

In this course, students will demonstrate an understanding of the methods of science inquiry by using the logic of the scientific method to answer biological questions and draw sound scientific conclusions. It is paired with Biology 112 Dual Credit. **Note: there might be a college fee required to take this course.**

# Science/Social Studies Elective

## Advanced Crime Scene Investigations

10th-12th

Credit: 1

This course will be a collaborative effort between a science and a social studies teacher in which the techniques and tests used by criminologists will be examined. The science component of the class will include some of the following: forensic history, evidence collection, blood and DNA collection and analysis, ballistics and fingerprint collection and analysis. The social studies component will include discussion of criminal and tort law, procedures of grand juries and trials, mock trials, crime scene reconstruction and serial criminals. Prerequisites: Biology, Chemistry and Algebra 2 (classes can be taken concurrently). Additional fee: \$10.



## SOCIAL STUDIES

**Note: Most all Social Studies courses are either Advanced or AP.**

## Advanced Government

9th

Credit: 1

This course emphasizes the major themes of government through topics that lead to an understanding of being an active citizen in the United States and today's global society. Topics will include understanding the relationship between natural environments, people and government, forms of government and the diverse cultures that make up and influence our national and global societies.

## AP U.S. Government & Politics

Credit: 1

This AP course in United States Government & Politics will give students an analytical perspective on government and politics in the U.S. It includes both the study of general concepts and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute U.S. government and politics. This class will prepare students for the AP US Government exam. When taken in the 9th grade, this course will satisfy the Government graduation requirement. **Course work is fast-paced, in-depth and extensive in content; weekly homework should be expected.** Additional fee: \$20.

**Advanced World History****10th****Credit: 1**

This is a survey course that focuses primarily on the historical, geographic, economic, governmental and cultural development of major civilizations after 1500, with a focus on the impact of the past on today's world. The first semester covers the period from the Renaissance to the French Revolution, and the second semester covers the period from the French Revolution to the present.

**AP World History: Modern****10th-12th****Credit: 1**

The purpose of this course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. Focused primarily on the past 1000 years of the global experience, the course builds on an understanding of cultural, institutional and technological precedents that, along with geography, set the human stage. Students will have the opportunity to take the AP World History: Modern exam at the close of the course. **Course work is fast-paced, in-depth and extensive in content; weekly homework should be expected.** Additional fee: \$20.

**United States History****11th-12th****Credit: 1**

This course traces the historical, societal and political development of the United States from Reconstruction to the present. Students will become real-life problem solvers and critical thinkers as they study government at various levels, explore the contributions of various cultures to the development of the American experience, examine the transformation of the U.S. economy and analyze how geographic features have affected U.S. development.

**AP United States History****11th-12th****Credit: 1**

The Advanced Placement U.S. History course is offered for the student with well-developed reading and analytical skills as well as maturity in thought and purpose. The focus is on depth, quality and breadth of work and on preparing the student for advanced college work in this subject area. Course content ranges from the time of Columbus to the present. Students may take the AP U.S. History exam upon completion of the course. **Course work is fast-paced, in-depth and extensive in content; weekly homework should be expected.** Additional fee: \$20.

**Advanced Criminal Justice****10th-12th****Credit: 1**

This course will give students an introduction to the people and procedures of the criminal justice system. Particular attention will be given to the needs and interests of today's youth. The topics of study will include the history of the U.S. criminal justice system, victims' rights and the rights of the accused, correction, a comparison between criminal and civil law procedures. The Constitution and other historical documents, as well as new laws will be applied and integrated into the curriculum.

**Advanced Political Science****10th-12th****Credit: 1**

This course content intertwines political ideology, political philosophy and governmental relationships. There is a heavy emphasis on national and international political issues. This is a discussion-based course with a substantial writing component.

**Advanced World Cultures****Credit: 1**

This course combines the disciplines of sociology and geography to come to an understanding of what all cultures have in common as well as what makes them different or unique. Topics such as culture, socialization, race, gender, family structure, world religions and urbanization will be studied through the viewpoint of a sociologist. One specific culture on each continent will also be studied and discussed. The class relies heavily on class discussion, group work as well as class, school and community surveys and experiments.

**AP European History****10th-12th****Credit: 1**

This AP Course is an in-depth look at the historical, geographical, economic, governmental and cultural developments of major European civilizations. The impact of the past on the present is a recurrent theme of this course. Students will learn the chronology of the major events and trends from approximately 1300 through the present. This course will prepare students for the AP European History exam. **Course work is fast-paced, in-depth and extensive in content; weekly homework should be expected.** Additional fee: \$20.

**AP Human Geography****Credit: 1**

Some topics included in this course are history of Geography since the 19th century, Population and its theories, Cultural Patterns and Processes (language, religion, race, ethnicity, gender), Political Organization of Space (nation-state, ethnic, economic, environmental) and Cities and Urban Land Use (cities, transportation, internal structure and landscape of cities, Christaller's Central Place Theory). The intense study of these topics will help prepare the student to take the AP Human Geography exam. Prerequisites: students must be recommended by their current social studies teacher and have maintained at least a C average in Advanced or AP Social Studies courses. **Course work is fast-paced, in-depth and extensive in content; weekly homework should be expected.** Additional fee: \$20.

**AP Microeconomics/AP Macroeconomics****10th-12th****Credit: 1**

This course provides the opportunity for students learn about the principles of economics that apply to the individual consumers (Micro) as well as to the economic system as a whole (Macro). Students will study the functions of product markets as well as factor markets. They will also learn about economic growth and international economics. Students have the opportunity to take the AP Macro- and Microeconomics exams and earn possible college credit. **Course work is fast-paced, in-depth and extensive in content; weekly homework should be expected.** Additional fee \$20.

**Advanced Psychology****Credit: 1**

This course is designed to introduce the student to the basic scientific principles of individual behavior. The student will learn how psychologists conduct research, how humans perceive the world and how biology affects behavior. Topics of interest include: learning theory, child development, right-left brain function, memory, emotion, dreaming. Second semester focuses on intelligence, personality, love, mental health and illnesses, discrimination and careers.

**AP Psychology****10th-12th****Credit: 1**

This course is offered for the student interested in pursuing college work in psychology and as preparation for the AP Psychology exam. The student is introduced to the scientific principles of individual behavior using critical thinking skills, extensive analysis and research practices. Course content includes psychological research techniques, major schools of thought, brain-behavior relationships, intelligence and creativity and memory. **Course work is fast-paced, in-depth and extensive in content.** Additional fee: \$20.



# WORLD LANGUAGE

Kentucky's Pre-College Curriculum mandates that all college-bound students must reach the second level of the same world language. Many colleges and universities have their own language requirements for admission and/or graduation.

## French 1

**Credit: 1**

This course's emphasis will be on basic communication skills in French. Students will learn basic listening, speaking, reading and writing skills. They will use these skills to communicate (in writing, through videos and using virtual media) with a pen pal from a partner school in France. They will also be introduced to culture and career opportunities utilizing French language skills. Additional fee: \$10.

## French 2

**Credit: 1**

Students will continue to improve upon basic communication skills from French 1, including the pen pal relationship. They will also explore and compare various aspects of francophone culture such as schooling, travel, beliefs, etc., of France, Martinique and the Ivory Coast. Prerequisite: successful completion of French 1 or teacher recommendation. Additional fee: \$10.

## Advanced French 3

**Credit: 1**

The goal of this course is for students to be able to express their ideas creatively and accurately both orally, in writing and with reasonable fluency. Students will continue to build upon their pen pal relationship begun in earlier courses. There will also be an exploration of social and cultural topics. **The class will be fast paced.** Prerequisite: successful completion of French 2 or teacher recommendation. Additional fee: \$10.

## Advanced French 4

**Credit: 1**

In this course, students will explore contemporary cultural topics including housing, stereotypes, holidays, cuisine, etc. This exploration will be through authentic reading, viewing, listening activities and class discussion. Students will continue to develop fluency and accuracy in reading and writing. This course is treated as a precursor to AP French Language & Culture. Prerequisite: successful completion of Advanced French 3. Additional fee: \$10.

## AP French Language & Culture

**Credit: 1**

This course is the equivalent of a college course in French language and culture. Students will express their ideas and informed opinions through writing and conversation among the following topics: beauty & aesthetics, families & communities, global challenges, etc. This class will prepare students for the AP exam in this subject. This class will prepare students for the AP French Language exam. Prerequisites: successful completion of Advanced French 4 or teacher recommendation. Additional fee: \$20.

## Advanced Japanese 1

**Credit: 1**

Students will learn basic listening, speaking, reading and writing skills. They will also be introduced to Japanese culture and career opportunities utilizing Japanese language skills. Additional fee: \$10.

## Advanced Japanese 2

**Credit: 1**

Students will continue improving listening, speaking, reading and writing skills. They will also learn about famous Japanese people and do some extended readings on popular topics. Emphasis will be placed on grammatical structures and vocabulary development. Prerequisite: successful completion of Advanced Japanese 1. Additional fee: \$10.

## Advanced Japanese 3

**Credit: 1**

The ability of students to express their ideas accurately and resourcefully both orally and in writing with reasonable fluency will be one of the main goals of this course. **The class will be fast paced.** Prerequisite: successful completion of Advanced Japanese 2. Additional fee: \$10.

## Advanced Japanese 4

Credit: 1

This course for advanced level students further develops the students' reading and writing skills. Readings on cultural movements are discussed in Japanese. The vocabulary expansion should permit the students to read most non-technical material. Prerequisite: successful completion of Advanced Japanese 3. Additional fee: \$10.

## AP Japanese Language & Culture

Credit: 1

Students enrolled in this course will gain an introduction to social, political, religious and educational issues, as well as traditional versus modern gender roles. They will learn to apply the appropriate register in the application of these skills as well as level of formality, which will all aid in successfully passing the AP Japanese Language & Culture exam. Prerequisite: successful completion of Advanced Japanese 4. Additional fee: \$20.

## Spanish 1

Credit: 1

Students will learn basic listening, speaking, reading and writing skills. They will also be introduced to Spanish culture and career opportunities utilizing Spanish language skills. Additional fee: \$10.

## Spanish 2

Credit: 1

Students will continue improving listening, speaking, reading and writing skills. They will learn about famous Spanish people and do some extended readings on popular topics. Emphasis will be placed on grammatical structures and vocabulary development. Prerequisite: successful completion of Spanish 1. Additional fee: \$10.

## Advanced Spanish 3

Credit: 1

The ability of the students to express their ideas accurately and resourcefully both orally and in writing with reasonable fluency will be one of the main goals of this level. **The class will be fast paced.** Prerequisite: successful completion of Spanish 2. Additional fee: \$10.

## Advanced Spanish 4

Credit: 1

This accelerated course will stress the use of Spanish, in all four skills, to deal with relevant contemporary topics: family, contemporary issues, music, community, etc. Readings will consist of excerpts and short stories. This course is treated as precursor to AP Spanish Language & Culture. Prerequisite: successful completion of Advanced Spanish 3. Additional fee: \$10.

## AP Spanish Language & Culture

Credit: 1

This course is equivalent to a college course in Spanish conversation and composition with the following objectives: (1) mastery in comprehension and oral expression of ideas; (2) mastery in the composition of expository passages; (3) the review of advanced grammatical structures. These themes are studied in depth: Global Challenges; Beauty & Aesthetics; Family & Community; Contemporary Life. This class will prepare students for the AP Spanish Language exam. Prerequisite: successful completion of Advanced Spanish 4 or teacher recommendation. Additional fee: \$20.

## Spanish 102 Dual Credit

11th-12th

Credit: 1

This course is designed to provide the student with the vocabulary and structures necessary to speak and understand elementary Spanish at the American Council of Teachers of Foreign Languages novice level. A completed Bluegrass Community & Technical College application is needed. Prerequisite: successful completion of Adv Spanish 3. This course is paired with Spanish 201 Dual Credit. **Note: there might be a college fee required to take this course.**

## Spanish 201 Dual Credit

11th-12th

Credit: 1

This course focuses on intermediate level speaking, listening, reading and writing. It is paired with Spanish 102 Dual Credit. **Note: there might be a college fee required to take this course.**

# ENGINEERING TECHNOLOGY

## Engineering 1

Credit: 1

This course introduces the world of engineering and is a prerequisite for other courses in this department. Students will learn many different aspects of engineering. Project-based learning is utilized and include a puzzle cube, a project based on the principles of computer science and a final project. This class is computer-based and teaches problem-solving skills using a design development process. Much time will be spent learning how to model 3D shapes in Autodesk Inventor and will have the opportunity to get certified in that software package. Additional fee: \$30.

## Civil Engineering

10th-12th

Credit: 1

This is a long-term project-based course that involves the development of a local property site working with the Architecture, Construction & Engineering Mentor Program. ACE is an in-depth program that gives students a hands-on look into architecture, construction management, engineering and other construction careers they may consider if interested in designing and/or building residential projects, schools, stadiums, shopping malls, parks and more. Additional fee: \$30.

## Introduction to Architecture

Credit: 1

In Introduction to Architecture, students will explore the basics of design through hand drawing, model making, and drafting with industry-standard software Revit. Students will use the mediums above to study the relationship between space, light, shadow, and form. In order to design dynamic residential and commercial architecture projects. Additional fee: \$30.

## Architectural Design

11th-12th

Credit: 1

This course extends the knowledge gained in Civil Engineering. Students will serve as group leaders and be given additional responsibilities. Prerequisite: successful completion of Civil Engineering and instructor's approval. Additional fee: \$30.

## Engineering 2

10th-12th

Credit: 1

This course explores the wide variety of careers in engineering and technology and covers various technology systems and manufacturing processes. Using activities, projects and problems, students learn first-hand how engineers and technicians use math, science and technology in an engineering problem-solving process to benefit people. Prerequisite: Engineering 1. Additional fee: \$30.

## Introduction to 3D Printing Technology

10th-12th

Credit: 1

An introduction to additive rapid prototyping manufacturing (three-dimensional printing), and its applications in conjunction with computer technology, including hardware, software, three-dimensional printing technology, and computer intellectual property ethics. The students will first learn how to model 3D shapes in Autodesk Inventor and will then use those skills to Invent and Innovate by designing and 3D-printing original 3D items. Additional fee: \$30.

## Robotics Engineering

Credit: 1

This hands-on course is designed to teach problem solving and team building to students using electronic and robotics technology. Student groups design and build robotic units using VEX robotics kits to solve social and technological problems. Projects that will be consistent with the Technology Student Association Competitive Events are also incorporated into the curriculum to enhance student performance. Additional fee: \$30.

## Engineering Internship

12th

Credits: 2-4

This course blends CTE Engineering & Architecture courses with real world experience. They will intern with an engineering or architecture firm and are responsible for securing an approved internship location before the start of school. Prerequisites: instructor approval and successful completion of two courses in the Engineering Tech. pathway. Must have own transportation. **Note: Only one credit of Internship may be used for KEES Scholarship purposes. Therefore, four other classes must be scheduled to earn at least 5 total credits for KEES qualification.**



# Pre-Engineering Program

All Pre-Engineering students must complete at least one Advanced Placement (AP) science course to be chosen from AP Biology, AP Chemistry, AP Environmental Science and AP Physics. Additionally, students must take Adv Physics with Earth/ Space Science, Adv Biology, Adv Chemistry and Adv (or AP) Physics. Pre-Engineering students **may** double-up on science courses in the freshman or sophomore years. A math and science course must be taken each year of high school.

All Pre-Engineering students must also complete at least one AP mathematics course, beyond AP Precalculus, to be chosen from AP Calculus and AP Statistics. Additionally, students must take Adv Geometry, Adv Algebra 2, Adv Precalculus and Adv (or AP) Calculus within the Pre-Engineering Program.

Students with a C or less are expected to attend tutoring during the semester or be transferred out of the program at the close of the semester. A student who receives a C or below at the close of the semester will be put on academic probation.

## **Pre-Engineering Advanced Geometry**

Prerequisite of having passed Algebra 1 in the 8th grade.

## **Pre-Engineering Advanced Algebra 2**

Prerequisite of having passed Adv Pre-Engineering Geometry with a B or better or Geometry in the 8th grade.

## **Advanced Placement Precalculus**

Prerequisite of having passed Adv Pre-Engineering Algebra 2 with a B or better.

## **Pre-Engineering Advanced Physics with Earth/Space**

This is the 9th grade science course. Prerequisite: concurrent enrollment in Adv Pre-Engineering Geometry or higher.

## **Pre-Engineering Advanced Biology**

This is the 10th grade science course. Prerequisite: completion of Adv Pre-Engineering Physics with Earth Space Science with a grade of B or better. Adv Pre-Engineering Biology may be taken in the 9th grade if also enrolled in Adv Pre-Engineering Algebra 2; would also be enrolled in Adv Pre-Engineering Physics with Earth Space Science.

## **Pre-Engineering Advanced Chemistry**

Prerequisite: completion of Adv Pre-Engineering Biology and Adv Pre-Engineering Geometry with a grade of B or better. May be taken concurrently with Adv Pre-Engineering Biology if not taken during 9th grade.

## **Advanced University Research Science**

Students will have the opportunity to specialize in the area of engineering or medicine which interests them. They will perform their own research, at the University of Kentucky, with guidance from a professor or doctor. Prerequisite: all necessary science requirements are met; an A or B in all Pre-Engineering and AP level math science courses. Additional fee: \$5. Also, depending on the lab selected at UK, students may be responsible for purchasing a UK parking pass for the year.

### Additional elective courses in Pre-Engineering include:

- Civil Engineering
- Engineering 1
- Engineering 2
- Introduction to 3D Printing Technology
- Introduction to Architecture
- Architectural Design
- Robotics Engineering
- Engineering Internship
- Introduction to Programming
- Project-based Programming
- AP Computer Science Principles
- AP Computer Science A
- Computer Science Internship

For more information contact:

Ms. Diane Remley, Mr. Seth Young or Mr. Taylor Steele  
Lafayette High School  
401 Reed Lane  
Lexington, KY 40503  
381.3474

## School for the Creative and Performing Arts (SCAPA)

This program provides students who are gifted/talented in the arts the opportunity to further develop and enhance their abilities in the fine arts in a setting that focuses on the arts and academics. Additionally, every student is given the opportunity to participate in performances, master classes, exhibits, lectures and other off-campus experiences throughout the year.

Admission to SCAPA requires an application and audition. The application period is typically in January with auditions in February. Placement offers are made in March for the next school year.

Students who attend SCAPA at Lafayette take two classes per year in their designated area. Arts areas include ballet, contemporary dance, theatre, technical theatre, literary arts, music (band, strings, keyboard or voice) and visual arts. Arts area instruction is provided by arts specialists. See [www.fcps.net/SCAPALHS](http://www.fcps.net/SCAPALHS) for program information. **There are additional fees associated with SCAPA Art classes (\$70-\$80) and other SCAPA classes (\$15-\$20).**

Note: students enrolled in SCAPA classes will be required to participate in out-of-school rehearsals, performances, masterclasses, theatre production hours, juried events, presentations or readings (as applicable per arts discipline) in order to satisfactorily complete these courses.

For more information contact:

Dr. Anthony Orr  
Principal  
Lafayette High School  
401 Reed Lane  
Lexington, KY 40503  
381.3474

Mr. Ryan Marsh  
SCAPA Lafayette Facilitator  
401 Reed Lane  
Lexington, KY 40503  
[scapalafayette@fayette.kyschools.us](mailto:scapalafayette@fayette.kyschools.us)  
381.3492

# College / Career Readiness

Lafayette offers KDE Career Pathways in the following areas to allow students to engage with their current career interests and explore new areas. In order to be considered Transition Ready through Career Readiness, a student must pass a minimum of 2 classes within a pathway and pass either the Industry Certification or the End of Program (EOP) Assessment for the pathway. There are opportunities for articulated college credit offered for passing an Industry Certification or EOP.

## 2022-2023 - courses/pathways subject to change

<b><u>Family &amp; Consumer Science</u></b>		
<b>9th—12th grade courses:</b>	<b>10th—12th grade courses:</b>	<b>12th grade work-based learning:</b>
Life Skills	Foods & Nutrition	Culinary Arts Co-Op
Money Skills for Math	Culinary Arts 1	Early Childhood Ed. Co-Op
Early Lifespan Development	Culinary Arts 2	Fashion & Interior Des. Co-Op
	Parenting	
	Principles of Teaching	
	Child Development Services 1	
	Child Development Services 2	
	Fashion & Interior Design 1	
	Fashion & Interior Design 2	
<b>Prepare for these Career Pathways:</b>	<b>Opportunities for Participation:</b>	<b>Potential to Earn:</b>
Consumer & Family Services	Family, Career & Community Leaders of America (FCCLA)	College credit via End of Program (EOP) assessment
Culinary & Food Services	Educators Rising	AAFCS Industry Certifications
Early Childhood Ed.	Site visits through Child Development Services 1 & 2	Early Childhood Certifications
Fashion & Interior Design		

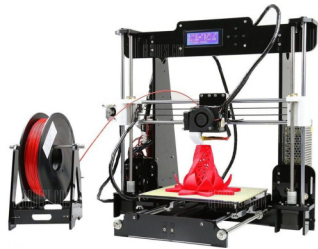


**Business & Marketing**

<b>9th—12th grade courses:</b>	<b>10th—12th grade courses:</b>	<b>12th grade work-based learning:</b>
Business & Marketing Essentials	Accounting & Finance Foundations	Business Education Co-Op
Intro. to Business (Dual Cr.)	Accounting 101/102 (Dual Cr.)	Marketing Education Co-Op
Digital Literacy	Adv Marketing Applications	
Ethical Leadership	Microsoft Office	
Principles of Marketing	Personal Finance (Dual Cr.)	
Sports & Event Marketing	AP Macroeconomics	
	AP Microeconomics	
	Real Estate 100/120 (Dual Cr.)	
<b>Prepare for these Career Pathways:</b>	<b>Opportunities for Participation:</b>	<b>Potential to Earn:</b>
Accounting	Lafayette <i>General Store</i> through Marketing Applications course	College credit via End of Program (EOP) assessment
Administrative Support	Distributive Education Clubs of America (DECA)	Microsoft Office Specialist
E-Commerce		
Management & Entrepreneurship		
Marketing & Retail Services		



<b><u>Engineering &amp; Architecture</u></b>		
<b>9th—12th grade courses:</b>	<b>10th—12th grade courses:</b>	<b>12th grade work-based learning:</b>
Engineering 1	Engineering 2 (Pre-req.: Eng. 1)	Engineering Internship
Introduction to Architecture	Civil Engineering (ACE I)	
Robotics Engineering	Architectural Design (ACE II)	
	Intro. to 3D Printing Technology	
	AP Computer Science A or AP Computer Science Principles	
<b>Prepare for these Career Pathways:</b>	<b>Opportunities for Participation:</b>	<b>Potential to Earn:</b>
Civil Engineering	ACE Mentors of the Bluegrass through Civil Engineering / Architectural Design class	College credit via End of Program (EOP) assessment
Engineering Design	Technology Student Association (TSA)	Autodesk Inventor Certified User
Mechanical Engineering		Autodesk Revit Certified User

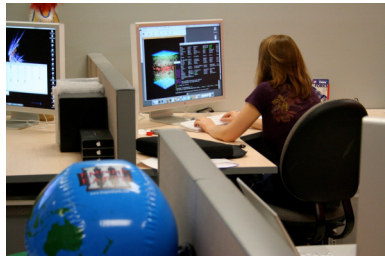


<b>Media Arts</b>		
<b>9th—12th grade courses:</b>	<b>10th—12th grade courses:</b>	<b>12th grade work-based learning:</b>
Introduction to Media Arts	Two Dimensional Design	Media Arts Internship
Digital Imaging (Photography)	Adv Production Design	
Interactive Design (Animation)	Moving Image Animation	
<b>Prepare for these Career Pathways:</b>	<b>Opportunities for Participation:</b>	<b>Potential to Earn:</b>
Graphic Design	Student Technology Leadership Program (STLP)	College credit via End of Program (EOP) assessment
Interactive Media	Technology Student Association (TSA)	Adobe Certified User

<b>Biotechnology</b>		
<b>9th—12th grade courses:</b>	<b>10th—12th grade courses:</b>	<b>12th grade work-based learning:</b>
Intro. to Biology with Earth/Space Science or Adv Biology	Adv Biotechnology Dual Credit	Industrial Biotechnology Internship
		<b>Potential to Earn:</b>
		College credit (Dual or Articulated)
		NOCTI Biotechnology Industry Certification



<b>Computer Science</b>		
<b>9th—12th grade courses:</b>	<b>10th—12th grade courses:</b>	<b>12th grade work-based learning:</b>
Digital Literacy	Java Programming 1	Computer Science Internship
Introduction to Programming	AP Computer Science A	
AP Computer Science Principles	Project-Based Programming	
<b>Prepare for these Career Pathways:</b>	<b>Opportunities for Participation:</b>	<b>Potential to Earn:</b>
Computer Programming	Technology Student Association (TSA)	College credit via End of Program (EOP) assessment or AP Exams



# Fayette County Technical Centers

Fayette County students may attend a Technical Center and earn three to four credits each school year. They may attend for additional school years for more advanced training and additional credits. Listed below are the programs available at the Technical Centers; websites shown offer detailed course descriptions. Technical Centers also offer some academic courses in addition to program courses.

## **Eastside Technical Center**—[www.eastside.fcps.net](http://www.eastside.fcps.net)

Automotive Engineering

Aviation

Broadcasting

Diesel Engineering

Firefighting & Emergency Medical Services

Heavy Equipment and Trucking Operation

Law Enforcement

Mobile App & Gaming

## **Locust Trace AgriScience Center**—[www.locustrace.fcps.net](http://www.locustrace.fcps.net)

Agricultural Engineering Institute

Animal Sciences Institute

Agribusiness: Equine Studies Program

Food Science & Processing Program

Pre-Veterinary Studies Program

Environmental Science & Natural Resources Institute

Plant Sciences Institute

## **Southside Technical Center**—[www.southside.fcps.net](http://www.southside.fcps.net)

Carpentry

Culinary Arts

Electricity Technology

Electronics Technology

Emergency Medical Technician

Industrial Technology

Medical Sciences

Pharmacy Technician

Pre-Nursing (State Registered Nurse Aide Certification)

Welding Technology



# General Counseling Information

## College Information

- Students may start to visit colleges the summer after their sophomore year.
- Throughout the school year, various college representatives come to Lafayette to meet with students during the school day. Sign up online at <http://LHS-CC-Coach.eventbrite.com>.
- A College Fair is held for Fayette County students in the fall.
- Keep a continuous resume of your activities, honors, work experience, etc.
- College-bound students should maintain a GPA of 3.0 or higher.

## Career Information

Information regarding careers and colleges are available in the Guidance Office.

## Financial Aid and Scholarships

Kentucky Educational Excellence Scholarship (KEES) is available to all students. Grades of C+ and above can earn money towards college tuition. Go to [www.kheaa.com](http://www.kheaa.com) for more details.

Some essay contests and scholarship opportunities are available to juniors, however, they are primarily offered during the senior year. Come to the Guidance Office for a copy of currently advertised scholarships or visit the Lafayette website.

A Financial Aid Workshop for seniors and their parents is held in the fall. Complete and submit the Free Application for Federal Student Aid (FAFSA) as soon as possible after the window opens on October 1 each year.

## Testing

### 10th grade

PSAT—**optional**; given **only** in October

State testing—**required** in late spring

### 11th grade

PSAT—recommended for National Merit Scholarship eligibility; given **only** in October

ACT—**required** in spring, free of charge, however, students may take the ACT several times throughout high school on their own ([www.actstudent.org](http://www.actstudent.org))

SAT—optional college entrance exam ([www.collegeboard.com](http://www.collegeboard.com))

State testing—**required** in late spring

### Advanced Placement (AP) exams

AP exams are administered each May. For more information go to: [www.collegeboard.com/student/testing/ap/about.html](http://www.collegeboard.com/student/testing/ap/about.html).

### Students with a 504 Plan, IEP, or PSP

In order to take a national exam such as the ACT, SAT, PSAT and/or AP, and receive accommodations, a form requesting approval for accommodations must be submitted as least 6 weeks prior to the exam date. Contact the Guidance Office for more information.

## **Pre-College Curriculum (PCC)**

First-time freshmen under age 21 who enroll in a four-year degree program at a Kentucky public university must complete PCC. Students who transfer to a four-year degree program or convert to baccalaureate status with fewer than 24 semester credit hours may be subject to PCC requirements. Rigorous electives should have academic content at least as challenging as that in courses required in the minimum high school graduation requirements. These electives also should be in social studies, science, math, English, arts and humanities, world language and above the introductory level in business, marketing, family consumer sciences, health sciences and technology education. Completing the PCC will enable students to earn monies via the Kentucky Educational Excellence Scholarship (KEES).

## **Additional Course Opportunities for Juniors and Seniors**

### Dual Credit

Students may earn both high school and college credit in the same course. Lafayette offers Dual Credit Anatomy, Biology, Business, English, Humanities, Math, Psychology and Spanish. Requirements include college application and meeting possible academic benchmarks. These courses use the college's grading scale (typically 100-90=A, 89-80=B, etc.). **Note: there might be a college fee required to take each of these courses.**

### Dual Enrollment

Students may enroll in college courses while in high school. College entrance requirements must be met.

### eSchool

Students may take courses on-line during their own time. See your Guidance Counselor for details.

### Opportunity Middle College (OMC)

This program is a partnership between Fayette County Public Schools and Bluegrass Community & Technical College (BCTC). Students have the opportunity to enroll in both college and high school courses that are taught on the campus of BCTC and can earn both high school and college credit for these courses. There is no cost for tuition or books for classes taken in this program. Students who will be a junior or senior next fall are eligible to apply. Students must submit ACT scores along with a high school transcript (minimum unweighted cumulative unweighted GPA of a 3.0) to verify that they can successfully complete the compacted and rigorous early college curriculum. Low socio-economic and first-generation college students receive priority in the selection process. See your Guidance Counselor for an application and more information.

## Kentucky's Career Clusters

The Career Pathway is the central focus for developing the Individual Learning Plan. Selecting high level academic and career-related courses and identifying work-based learning experiences that prepare students for transition to postsecondary education, work or the military.

The ILP is designed to help students plan for their futures as they complete an interest inventory and compile their academic achievements, extracurricular activities and career and education exploration activities. Guidance Counselors and teachers will use ILP information to guide and personalize students' academic journeys and students will use the ILP as a tool throughout high school and beyond.

Kentucky's 14 Career Clusters are: Agriculture, Human Services, Arts & Humanities, Information Technology, Business & Marketing, Manufacturing, Communications, Public Services, Construction, Science & Mathematics, Education, Social Sciences, Health and Transportation.





# Learners, Leaders, Legacies: LAFAYETTE

## Contact Information

Principal	Dr. Anthony Orr	381.3474
SCAPA	Mr. Ryan Marsh	381.3492
Pre-Engineering	Ms. Diane Remley Mr. Seth Young Mr. Taylor Steele	381.3474
Guidance Office	main number	381.3481

Lafayette High School

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