

Table of Contents

Graduation Requirements	1
Grading Scales/Grade Point Average (GPA)	1
Understanding Your High School Transcript	2
Planning Post-Secondary Goals	3
Advanced Placement Courses	4-5
NCAA Eligibility/NAIA Eligibility	6-8
Course Offerings English Math Science Social Studies Visual & Performing Arts Health & Physical Education World Languages General Electives	9-19
CTE Pathway Offerings Business and Marketing Education Engineering Technology Education Health Science Media Arts Computer Science CTE at Garrard County (Automotives, Electrical, Construction, Welding, Health Science, and CAD) CTE at Lincoln County (Information Tech., Manufacturing and Machining, Health Science, Industrial Maintenance, and Wood Manufacturing)	20-31
Dual Credit Opportunities Dual Credit/Work Ready Scholarships General Education Core Courses (link with transfer information) Technical Education Courses Bluegrass Community and Technical Education College- Courses offered at DHS Eastern Kentucky University University of Louisville	32-39
Policy Statements Alternative Credit Options College Visits Fractional Credit Graduation Exercise Graduation Honors / Class Rank Independent Study Individual Learning Plan Promotion Schedule Changes Transfer of Credits Weighted Program	40-41
Kentucky Education Excellence Scholarship (KEES)	42
ACT	42
Four Year Academic Planning Worksheet	43

GRADUATION REQUIREMENTS

Class of 2022

CONTENT AREA	REQUIRED CLASSES	CREDITS NEEDED
English	English I, English II and 2 additional English/Language Arts Credits aligned with the student's ILP	4
Math	Algebra 1, Geometry, and 2 additional math credits aligned with the student's ILP	4
Science	3 Science credits (at least 1 aligned with the student's ILP)	3
Social Studies	3 Social Studies credits (at least 1 aligned with the student's ILP)	3
Health/PE	Health (<i>½ credit</i>) and PE (<i>½ credit</i>)	1
Visual & Performing Arts	Visual Art, Music, or Drama	1
Speech	Speech (<i>1/2 credit</i>) <i>*only required for graduating class, 2022, 2023</i>	.5
Electives	6 additional credits aligned with the student's ILP	6
TOTAL CREDITS NEEDED FOR GRADUATION =		22.5

In accordance with the Kentucky Board of Education, the addition of “graduation qualifiers” was made to ensure students have experience intended to equip them for success in postsecondary education and/or the workforce.

Graduation Qualifiers
<i>Students entering high school in the 2019-2020 school year must complete one graduation qualifier:</i>
<ol style="list-style-type: none"> 1. Precollege curriculum as established by the Council on Postsecondary Education; OR 2. Four credits from valid courses with a single KDE-approved career pathway; OR 3. A Kentucky Department of Education approved process to verify 500 hours of exceptional work experience, or alternative requirements as prescribed in a student's IEP.

Grade Point Average (GPA) is calculated by dividing the total number of quality points earned by the total number attempted.			
	Regular Classes	Honor's/ Dual Credit Classes	AP
A	4	5	6
B	3	4	5
C	2	3	4
D	1	2	3
E	0	0	0
I	0	0	0
P/F	0	0	0

ADDITIONAL REQUIREMENTS
<ol style="list-style-type: none"> 1. Each year, all students are required to update and complete their ILP. 2. All seniors will complete and present a final gateway project. 3. Students will be required to pass a 100 question civics exam. 4. Students will be required to receive instruction in financial literacy. 5. Students must demonstrate competency in essential skills and technology.

Grading Scale		
A	90 - 100%	Excellent
B	80 – 89%	Good
C	70 – 79%	Average
D	60 – 69%	Below Average
E	59% and below	Unsatisfactory
P	Pass	Satisfactory
F	Fail	Unsatisfactory
I	Incomplete	No Credit

Grade Level Classification:

9th grade- 1st year student

10th grade- 2nd year student

11th grade- 11-14 credits

12th grade- 15 credits & above

UNDERSTANDING YOUR HIGH SCHOOL TRANSCRIPT

Curriculum choices and decisions about studying are important. The results of these decisions become a part of your transcript or record of your total school experience. The classes you take and the grades you make are recorded on your school transcript. Your transcript is an important part of all post-secondary school and many job applications.

WHAT DOES MY TRANSCRIPT SAY?

Examine your transcript using the information below.

Quality Points—the value assigned to each letter grade (A=4 points, B=3 points, C=2 points, D=1 point, E=0).

Credit—One unit for completing requirements for a course

Grade Point Average (GPA)—the total number of quality points divided by the total number of credits attempted. The GPA can be determined for each grading period, semester, year, or total 4-year high school experience.

Cumulative GPA—the total of all quality points accumulated divided by credits attempted.

Class Rank—The position one holds among the total number of students in a given class, based on cumulative grade point averages (GPA) determined by the total number of quality points accumulated in all credits awarded on the transcript including high school credits earned in middle school, dual college credits, performance-based credits and online courses. The rank is based on a weighted GPA.

Total Credits Earned—the number of credits earned in a given period of time.

Weighted Courses/ Quality Points—the value assigned to each letter grade (Honors/Dual Credit Courses: A=5 points, B=4 points, C=3 points, D=2 points, E=0 / AP Courses: A=6 points, B=5 points, C=4 points, D=3 points, E=0)

PLANNING POST-SECONDARY GOALS

Danville High School encourages all students to explore and refine their “after high school” plans. Will you attend a post-secondary institution (college, university, community college, tech school)? Will you enter the workforce and begin your career? No matter what your direction, we offer opportunities to help guide you through high school with your post-secondary goals in mind.

Preparing for Post-Secondary: COLLEGE READY

What Does It Mean to be COLLEGE Ready?

In order to be considered *College Ready* as determined by the state of Kentucky, students must meet benchmarks on one **OR** a combination of the following tests:

<u>ACT Benchmarks</u>	
<u>Kentucky Benchmarks</u>	<u>National Benchmarks</u>
English....18	English.....18
Math.....19	Math.....22
Reading...20	Reading....22
Science....23	Science.....23

The **ACT** is a college entrance exam used by colleges to decide admission of applicants.

All juniors take a state funded ACT at DHS in March.

Students may also take the ACT multiple times on any of the national testing dates.

Register at www.act.org

What Happens If a Student Has Not Earned College Benchmarks?

DHS offers college prep courses in math, reading, and English to 12th graders who have not yet met benchmarks. Students can retake the **ACT** on any national test date.

IMPORTANT: After graduating high school, college-bound students who have not earned *college ready benchmarks* will be required to enroll (and pay for) remedial classes in that content area. The classes will help students become prepared for college level work, but no college credit hours are earned. Thousands of dollars can be saved when students are *college ready* upon graduation.

ADVANCED PLACEMENT COURSES

Advanced Placement courses are rigorous courses that offer college-level curriculum for DHS credit, with the opportunity to earn college credit. The time required for an AP course is significantly greater than a regular class. Learn more about AP courses and exams [here](#).

AN EDGE IN COLLEGE

Taking AP courses in high school could give you an advantage in college by letting you:

EARN COLLEGE CREDIT

Your AP score could earn you college credits before you even set foot on campus.

EARN ADVANCED PLACEMENT

Your AP score can let you skip introductory courses in college.

See how AP scores transfer at specific colleges, and what score is needed [here](#)

SAVE MONEY AND TIME

Earning credit or placement can open up time in your schedule, or even let you graduate early. Find out more about the cost of exams [here](#)

STAND OUT TO COLLEGES

“AP” on your high school transcript shows colleges you’ve tackled college-level work.

A HEAD START IN HIGH SCHOOL

Research consistently shows that AP students are better prepared for college than students who don’t take AP. They’re more likely to enroll and stay in college, do well in their classes, and graduate in four years. Taking AP can help you:

GET A TASTE OF COLLEGE

Get familiar with college level work -- and gain confidence by tackling it.

DEVELOP COLLEGE SKILLS

Time management, critical thinking, scholarly writing -- AP courses help you hone the skills you’ll need for college and career.

DISCOVER YOUR PASSION

Studying a subject in depth could give you new insights and even put you on the path to a career.

AP COURSES OFFERED AT DHS

<p style="text-align: center;">AP English Language and Composition</p> <p>Learn about the elements of argument and composition as you develop your critical-reading and writing skills.</p>	<p style="text-align: center;">AP English Literature and Composition</p> <p>Learn how to understand and evaluate works of fiction, poetry, and drama from various periods and cultures.</p>	<p style="text-align: center;">AP Spanish Language and Culture</p> <p>Develop your Spanish language skills and learn about the cultures in Spanish-speaking parts of the world.</p>
<p style="text-align: center;">AP Human Geography</p> <p>Explore how humans have understood, used, and changed the surface of Earth.</p>	<p style="text-align: center;">AP United States Government and Politics</p> <p>Study the key concepts and institutions of the political system and culture of the United States.(Offered again in 2022-2023)</p>	<p style="text-align: center;">AP United States History</p> <p>Study the cultural, economic, political, and social developments that have shaped the United States from c. 1491 to the present.</p>
<p style="text-align: center;">AP World History: Modern</p> <p>Study the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to the present.</p>	<p style="text-align: center;">AP Calculus AB</p> <p>Explore the concepts, methods, and applications of differential and integral calculus.</p>	<p style="text-align: center;">AP Calculus BC</p> <p>Explore the concepts, methods, and application of differential and integral calculus, including topics such as parametric, polar, and vector functions, and series.</p>
<p style="text-align: center;">AP Computer Science Principles</p> <p>Learn the underlying principles of the science of computing and develop the thinking skills that computer scientists use.</p>	<p style="text-align: center;">AP Statistics</p> <p>Learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data.</p>	<p style="text-align: center;">AP Biology</p> <p>Study the core scientific principles, theories, and processes that govern living organisms and biological systems.</p>
<p style="text-align: center;">AP Chemistry</p> <p>Learn about the fundamental concepts of chemistry including structure and states of matter, intermolecular forces, and reactions.</p>	<p style="text-align: center;">AP Environmental Science</p> <p>Explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made.</p>	<p style="text-align: center;">AP Physics 1: Algebra-Based</p> <p>Learn about the foundational principles of physics as you explore Newtonian mechanics; work, energy, and power; mechanical waves and sound; and introductory, simple circuits.</p>

NCAA ELIGIBILITY

The NCAA eligibility rules require careful planning by the student-athlete to ensure that the required number of core courses are completed.

****Student athletes should register with the NCAA Clearinghouse in his/her junior year.**

- 4 years of English
- 4 years of mathematics (Algebra 1 or higher)
- 2 years of natural/physical science
- 1 year of additional English, math, or natural/physical science
- 2 years of social science
- 4 years of additional courses from any area above, foreign language, or religion/philosophy

ENGLISH	MATHEMATICS	NATURAL/ PHYSICAL SCIENCE	SOCIAL SCIENCE	ADDITIONAL CORE COURSES
<ul style="list-style-type: none"> ● AP Language ● AP Literature ● ENG 101 and 102 ● English I ● English II ● English III ● English IV ● H. English I ● H. English II ● H. English III ● H. English IV ● Speech 	<ul style="list-style-type: none"> ● Algebra 1 ● Algebra 2 ● Algebra 3 ● H. Algebra 2 ● College Algebra ● AP Statistics ● AP Calculus ● AP Computer Science ● Geometry ● H. Geometry ● H. Precalculus ● MA 111 and MAT 150 	<ul style="list-style-type: none"> ● AP Biology ● AP Chemistry ● AP Environmental Science ● AP Physics ● Biology ● Body Structures and Functions ● Chemistry ● Environmental Science ● H. Chemistry ● H. Principles of Engineering ● Integrated Chemistry & Physics ● Physics ● Robotics ● Astronomy ● Human Genetics 	<ul style="list-style-type: none"> ● African American Studies ● AP Human Geography ● AP US Government ● AP US History ● AP World History ● Global Issues ● Psychology ● Sociology ● US History ● World History ● World Geography 	<ul style="list-style-type: none"> ● Spanish 1 ● Spanish 2 ● H. Spanish 3 ● H. Spanish IV ● AP Spanish Language

DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes will need to meet the following academic requirements to practice, receive athletic scholarships, and/or compete during their first year.

Core-Course Requirement

Complete 16 core courses in the following areas:



Full Qualifier

- Complete 16 core courses.
 - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
 - Seven of the 10 core courses must be in English, math or science.
- Earn a core-course GPA of at least 2.300.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

Academic Redshirt

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn the ACT/SAT score matching your core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

Full Qualifier:

College-bound student-athletes may practice, compete and receive athletics scholarships during their first year of enrollment at an NCAA Division I school.

Academic Redshirt:

College-bound student-athletes may receive athletics scholarships during their first year of enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

Nonqualifier:

College-bound student-athletes cannot practice, receive athletics scholarships or compete during their first year of enrollment at an NCAA Division I school.

**See counselors for questions about which classes are NCAA approved.
More information: <http://www.ncaa.org/student-athletes/play-division-i-sports>*

NAIA CLEARINGHOUSE REQUIREMENTS FOR ATHLETES

Students who have completed their **junior year of high school** may obtain an eligibility determination from the NAIA Eligibility Center **before** graduating from high school if they meet all the following requirements:

- will enroll at an NAIA institution immediately after high school graduation
- have at least a 3.0 GPA on a 4.0 scale at the conclusion of junior year OR have at least a 2.5 GPA on a 4.0 scale midway through senior year
- have met minimum test score requirement:
 - ➔ 18 composite score on the ACT for tests taken before March 2016* – *Exception: Per NAIA Bylaws V.C.2a, “For ACT tests taken beginning March 2016, a minimum score of 16 will satisfy this requirement. This exception will apply through the 2018-2019 academic year, at which time this exception will expire.
 - ➔ 860 on the SAT (Evidence-Based Reading and Writing & Math)

If you are a Senior:

➔ Register with the NAIA Eligibility Center right away. Delaying your registration may mean watching your teammates play from the sidelines.

➔ Have your high school guidance counselor send your official transcripts to the Eligibility Center.

➔ Have your ACT or SAT scores sent to the Eligibility Center directly from the testing service using the NAIA's code: **9876**.

➔ If you are still exploring colleges, find out how you can connect directly with NAIA coaches and admissions offices.

Want to Know if you are Eligible?

It is easy! You only need to meet **two** of these requirements:

1. ACHIEVE A MINIMUM OF 18 ON THE ACT OR 860 ON THE SAT*.

2. ACHIEVE A MINIMUM OVERALL HIGH SCHOOL GPA OF 2.0 ON A 4.0 SCALE.

3. GRADUATE IN THE TOP HALF OF YOUR HIGH SCHOOL CLASS.

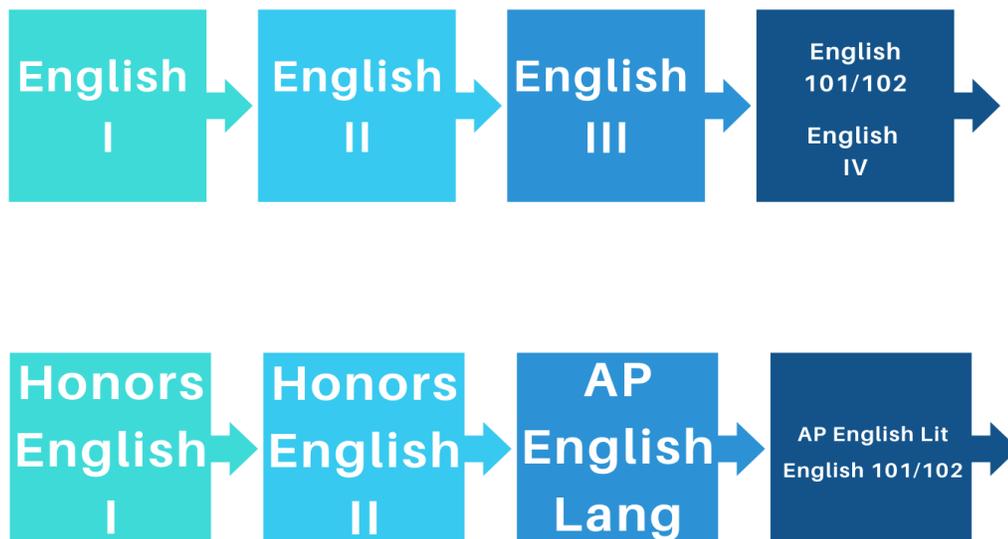
* Exception for the ACT: 18 composite score on the ACT for tests taken before March 2016* – *Exception: Per NAIA Bylaws V.C.2a, “For ACT tests taken beginning March 2016, a minimum score of 16 will satisfy this requirement. This exception will apply through the 2018-2019 academic year, at which time this exception will expire.

NOTE: These are the eligibility requirements for entering freshmen with a break after high school of one year or less.

COURSE OFFERINGS

ENGLISH

English students should select the course that best suits them -- Honors and Advanced Placement for those students who are college-bound for selective schools; General for those considering college or trade school and who want to move at a slower pace than Honors or AP; and/or Dual Credit for those students who want to complete a pathway and/or gain college level experience.



ENGLISH I, HONORS ENGLISH I – Grade Level: 9; Credit: 1

One credit of this course (at one of the two levels) is required of all 9th graders. The course is an introduction to genres in literature as well as writing creatively, writing about literature and transactional writing. Vocabulary and grammar instruction also prepares students for college and career readiness on the ACT in English and Reading.

ENGLISH II, HONORS ENGLISH II – Grade Level: 10; Credit: 1

One credit of this course (at one of the two levels) is required of all 10th graders. The course focuses on literature from a variety of cultural perspectives as well as writing, vocabulary, and grammar to prepare students for college and career readiness on the ACT in English and Reading.

ENGLISH III – Grade Level: 11; Credit: 1

This course is a study of major American literature with a strong writing emphasis on ACT prep in Reading and English. Vocabulary and grammar instruction is designed to prepare students for both college and career readiness on the ACT in English and Reading.

ENGLISH IV – Grade Level: 12; Credit: 1

This course is a study of reading and writing with a strong emphasis on real-world communication skills. Instruction, including text selection and writing projects, are designed to prepare students for both college and career paths after high school.

DUAL CREDIT ENGLISH (ENG 101 and ENG 102) -- Grade Level 12; Credit 1

Dual credit English courses are offered through various colleges, but there is a section at BCTC specifically for DHS students. Students wishing to take these courses must reach ACT benchmarks and complete the college application process. *NOTE:UK will only accept ENG 101 and 102 as english credit if the student also takes COM 181- Basic Public Speaking. Many private/out-of-state colleges will not accept dual credit courses as direct transfers. Please see the [dual credit](#) section for more information.

AP ENGLISH LANGUAGE AND COMPOSITION – Grade Level: 11-12; Credit: 1

Prerequisite: A or B in previous English course. This is an accelerated, college-level course in research and composition. Students should expect to analyze and interpret samples of good writing; identify, apply and explain rhetorical strategies and techniques; and write for a variety of purposes. It is recommended that students take the AP English Language and Composition

exam in May.

AP ENGLISH LITERATURE AND COMPOSITION – Grade Level: 12; Credit: 1

Prerequisite: A or B in previous English course. This is an accelerated, college-level course covering literature written in English. The course's focus includes AP exam preparation as well as numerous novels and plays, short fiction, poetry and independent reading. It is recommended that students take the AP English Literature and Composition exam in May.

ENGLISH ELECTIVES

SPEECH I – Grade Level: 9-12 (Required for 2021, 2022, and 2023 graduates); Credit: ½

This course is an introduction to public speaking dedicated to overcoming stage fright, the basics of public speaking, and how to make successful presentations using software and visual aids.

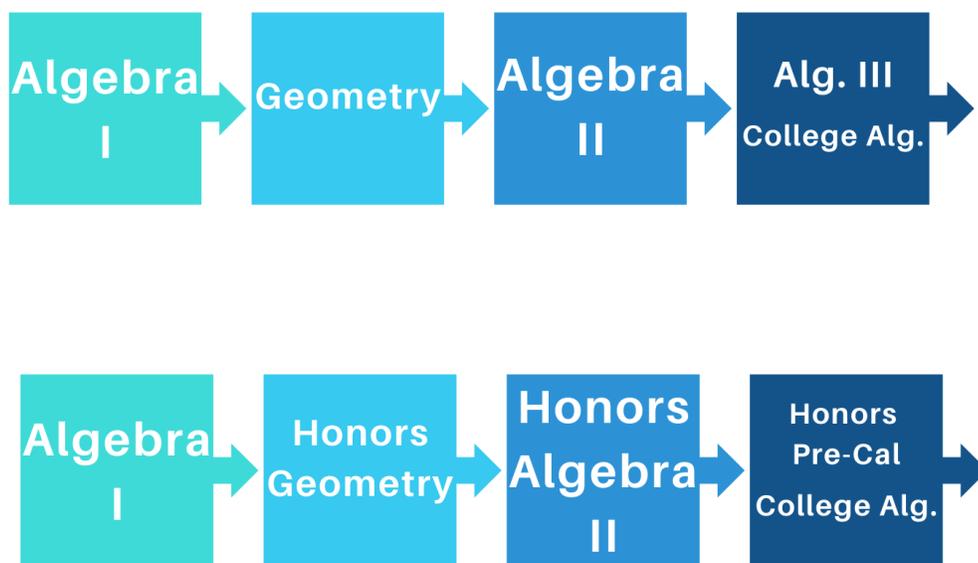
WRITING ARTS: JOURNALISM + CREATIVE WRITING – Grade Level: 10-12; Credit: 1

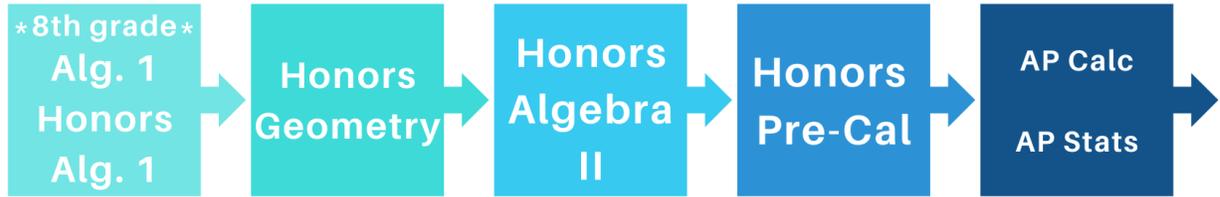
Students will write news stories, features, sports stories, and editorials as well as study photography and the basics of reporting. Additionally, students will examine the art form of composing poetry, short stories, song lyrics, monologues, dialogues and one-act plays. Students will be encouraged and guided in the submission of several of their original writings to local, state, and national competitions for publication.

YEARBOOK PRODUCTION I & II – Grade Level: 10-12; Credit: 1

Students will learn all aspects of creating a yearbook, including photography, layout, copy and business management. Students interested in this class need to be organized, motivated, dedicated, cooperative, professional and creative. Prospective staff members should be aware that these classes **require students to complete assignments outside of school hours**. These assignments include attending school activities, interviews, selling advertisements and fundraising.

MATH





ALGEBRA 1 – Grade Level: 9-10; Credit: 1

This course is the study of high school Algebra 1 content. Upon completion of the course, students should be able to: analyze linear, quadratic, and exponential expressions and functions; use those functions to solve problems, write expressions in equivalent forms to solve problems; perform arithmetic operations on polynomials; and solve equations and inequalities in one variable and solve systems of linear equations in two variables. This course is designed to build a solid foundation necessary for future high school mathematics courses.

GEOMETRY – Grade Level: 9-11; Credit: 1

This course is the study of high school Geometry content. Upon completion of the course, students should be able to use transformations in the plane; understand congruence; prove geometric theorems; understand similarity; use trigonometric ratios and solve problems involving right triangles; solve problems about circles; and use area and volume formulas to solve problems.

HONORS GEOMETRY – Grade Level: 9-11; Credit: 1

Includes the topics covered in Geometry with an emphasis on proof-writing and logic to prepare for further honors and AP courses.

ALGEBRA 2 – Grade Level: 10-12; Credit: 1

This course is the study of high school Algebra 2 content. Upon completion of the course, students should be able to: perform arithmetic operations with complex numbers; perform operations on matrices; solve problems using radical, rational, polynomial, exponential, and logarithmic functions; and analyze data and calculate probabilities.

HONORS ALGEBRA 2 – Grade Level: 10-12; Credit: 1

Includes the topics studied in Algebra 2, with advanced preparation for Precalculus, AP Statistics, and AP Calculus.

ALGEBRA 3 – INTRODUCTION TO COLLEGE ALGEBRA – Grade Level: 12; Credit: 1

This course requires students to solve applied and mathematical problems using various types of equations (linear, quadratic, exponential, trigonometric, logarithmic, power, piece-wise). The topics covered are chosen to help prepare students for success in introductory college math courses.

MATH ELECTIVES

AP Computer Science Principles- Grade: 10-12 Credit: 1

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

HONORS PRECALCULUS – Grade Level: 11-12; Credit: 1

This course is designed for students to attain the concepts necessary to be successful in a Calculus course, an AP Calculus course or a Calculus course at a college or university. Objectives for this course include solving equations and inequalities involving polynomial, rational, exponential, logarithmic and trigonometric functions, understanding the behavior and applying the properties of polynomial, rational, exponential, logarithmic and trigonometric functions, graphing polynomial, rational, exponential, logarithmic and trigonometric functions, and using technology to solve and graph various types of equations and inequalities and to prove trigonometric identities.

AP CALCULUS AB – Grade Level: 12 Credit: 1

AP Calculus AB is equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. The course includes concepts and skills of limits, derivatives, definite integrals, and the Fundamental Theorem of Calculus. The

course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations. Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions. College credit is earned with a qualifying score on an AP exam.

AP CALCULUS BC – Grade Level: 12; Credit: 1

AP Calculus BC is equivalent to both first and second semester college calculus courses. It extends the content learned in AB to different types of equations (polar, parametric, vector-valued) and new topics (such as Euler's method, integration by parts, partial fraction decomposition, and improper integrals), and introduces the topic of sequences and series. College credit is earned with a qualifying score on an AP exam.

AP STATISTICS – Grade Level: 11-12; Credit: 1

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

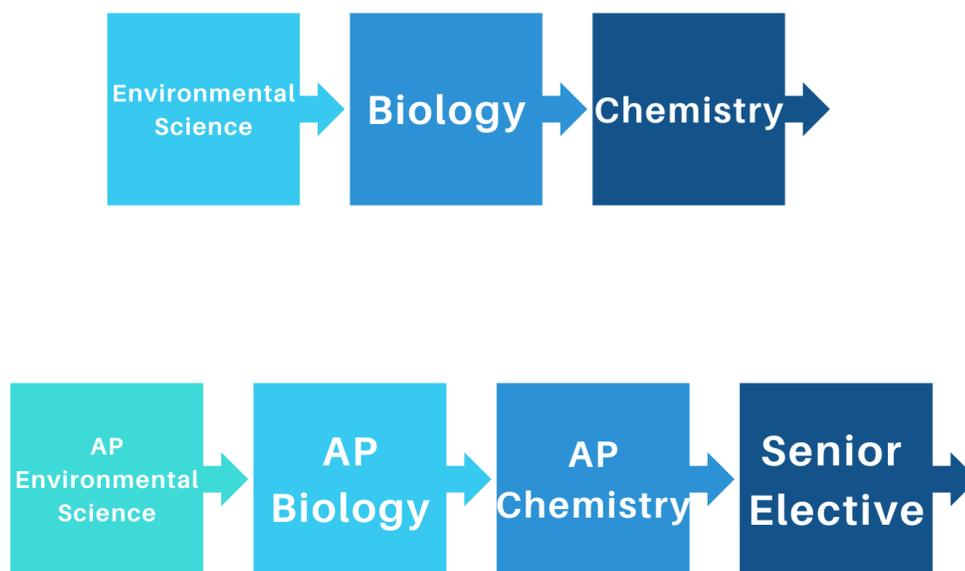
MA 111 -- INTRO TO CONTEMPORARY MATHEMATICS

An introduction to concepts and applications of mathematics, with examples drawn from such areas as voting methods, apportionment, consumer finance, graph theory, tilings, polyhedra, number theory and game theory. This course is not available for credit to persons who have received credit in any mathematics course of a higher number with the exceptions of MA 112, 123, 162, 201, and 202. This course does not serve as a prerequisite for any calculus course. Credit not available on the basis of special examination. Pre-requisites: Two years of high school algebra and a Math ACT score of 19 or above, of MA 108R, or math placement test. See [Dual Credit](#) section for additional information.

MAT 150 – COLLEGE ALGEBRA

Includes selected topics in algebra and analytic geometry. Develops manipulative skills and concepts required for further study in mathematics. Includes linear, quadratic, polynomial, rational, exponential, logarithmic and piecewise functions; systems of equations; and an introduction to analytic geometry. Pre-requisites: Math ACT score of 22 or above, or KCTCS placement exam. See [Dual Credit](#) section for additional information.

SCIENCE



ENVIRONMENTAL SCIENCE – Grade Level: 9; Credit: 1

This course addresses topics of environmental interest/impact such as water pollution, conservation, forestry and air pollution. It will compliment online learning with a rigorous lab section to develop the student's analytical thinking skills.

AP ENVIRONMENTAL SCIENCE – Grade Level: 9-12; Credit: 1

The goal of APES is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and / or preventing them. This is a rigorous course that follows the college board curriculum. **Prerequisite: A in 8th grade science class or department approval.**

BIOLOGY I – Grade Level: 10; Credit: 1

This is a sophomore level course designed to present the basic concepts, theories, and relationships existing among the living organisms of the world. Laboratory work is an integral component.

AP BIOLOGY – Grade Level: 10-12; Credit: 1

This course follows the rigorous curriculum established by the College Board. It is an in- depth study of biochemistry, cellular biology, genetics, evolution, and ecology. Activities will include lecture, small group work, laboratory experiences, free response exam questions, and statistical analysis of data. **Prerequisite: APES or department approval.**

CHEMISTRY IN THE COMMUNITY – Grade Level: 11-12; Credit: 1

This course explores chemistry concepts through the lens of societal issues. The units use real-world examples to expose students to concepts in materials science, environmental chemistry, organic chemistry, biochemistry, and industrial chemistry. Topics include water treatment chemistry, metallurgy, and gas chemistry. **Teacher approval required.**

PRE-COLLEGE CHEMISTRY – Grade Level: 11-12; Credit: 1

An advanced comprehensive class that will move more quickly through foundations of chemistry in order to allow more time for advanced topics and labs. It is designed to study matter, design of atoms, the periodic table, bonding, formulas, reactions, solutions, acids, bases, stoichiometry, kinetic theory, electrochemistry; to survey organic chemistry and biochemistry; and to discuss nuclear chemistry. The course will cover the first half of the AP chemistry curriculum.

AP CHEMISTRY – Grade Level: 11-12; Credit: 1

Includes acid-base theory, chemical kinetics, chemical equilibrium, thermodynamics, and electrochemistry. Laboratory work parallels the topics covered. This is a rigorous course that follows the college board curriculum. **Prerequisite: A in Biology or department approval.**

HONORS PHYSICS – Grade Level: 11-12; Credit: 1

This course will explore the physical world through mathematical relationships. We will study motion and stability, as well as energy transformations, all-the-while trying to make sense of the world around us. This course requires you to carefully critique the way you think the world works. **Corequisite: Algebra 2.**

AP PHYSICS 1 – Grade Level: 11-12; Credit: 1

This course is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. **Prerequisite: Honors Physics.**

SCIENCE ELECTIVES

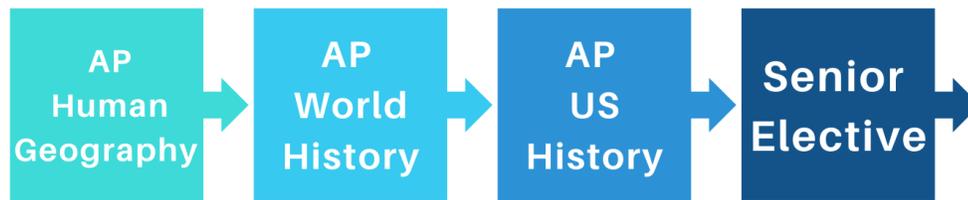
HUMAN GENETICS – Grade Level: 10-12; Credit: ½

This course is the study of inheritance. There is a focus on Mendelian genetics, DNA technology and gene therapy, heredity and behavior, and the effect of the environment on genetics. Students will complete a semester project and several labs.

ASTRONOMY – Grade Level: 11-12; Credit: ½

This course introduces you to the composition and structure of the universe, and will include the study of stars, galaxies, and planets, with a focus on our own solar system. **Prerequisite: C or better in previous science courses.**

SOCIAL STUDIES



GLOBAL ISSUES – Grade Level: 9; Credit: 1

This course will be a combination of geography, basic economics principles and citizenship/government. The history, culture, and physical characteristics of selected regions of the world will be emphasized. Real-life applications will encourage the transition from 8th grade American History to American and World Civilization.

AP HUMAN GEOGRAPHY – Grade Level: 9-12; Credit: 1

AP Human Geography is the study of human understanding, use, and alteration of the Earth's surface through analysis of patterns and processes. Students will learn the impact humans have not only on the Earth, but also on each other. Students can earn college credit by passing the Advanced Placement examination in May. ***It is highly recommended that students who enroll in this course also be enrolled in Honors English to build necessary reading and writing skills. Prerequisite: A in 8th grade social studies class or department approval.***

WORLD HISTORY – Grade Level: 10; Credit: 1

Students will explore the development of global history from the Renaissance to present day (1450-present). Students will use primary and secondary sources to investigate the historical significance of major movements and events.

AP WORLD HISTORY – Grade Level: 10-12; Credits: 1

Advanced Placement World History is a survey of the history of the world focusing on cultural and political aspects; ancient and modern history; the study of western and non-western civilizations; and current events. College credit possible with successful completion of the AP exam. ***It is highly recommended that students who enroll in this course also be enrolled in Honors English to build necessary reading and writing skills.***

US HISTORY – Grade Level: 11-12; Credit: 1

In U.S. History, students will learn a survey of American history from colonization to present day, with a greater emphasis on American history post-1865. Students will investigate the Civil War and Reconstruction, the Gilded Age, the Progressive Era, the 1920s, the Second World War, and the Cold War by working with primary and secondary sources.

AP US HISTORY – Grade Level: 11-12; Credit: 1

Advanced Placement American History extends the study of American History with a special focus on early colonial history to the present. This course provides the student with a comprehensive knowledge of American history and prepares the student to take

and pass the Advanced Placement American History examination. ***It is highly recommended that students who enroll in this course also be enrolled in Honors English to build necessary reading and writing skills.***

SOCIAL STUDIES ELECTIVES

AFRICAN-AMERICAN STUDIES Grade level: 9-12; Credit: 1

This course will trace the historical, political, social, economic, and cultural issues that pertain to the African-American experience. Emphasis will be placed on contemporary issues facing African-Americans.

LAW AND JUSTICE -- Grade Level: 9-12; Credit: 1

This course will look in detail at civil, criminal, constitutional, and international law, as well as the legal and justice systems. Students will examine the need for rules and regulations; interpretations of the Constitution, both state and federal; Supreme Court decisions; the Bill of Rights; and individual rights law, criminal law, family law, and consumer law. The student of the basic social contracts of society will enable students to understand the preferred democratic values; justice, equality, responsibility, freedom, rule of law, human rights, honesty, equity, rational process, and human dignity.

PSYCHOLOGY-- Grade Level: 9-12; Credit: ½

Psychology is an introduction to the basic scientific theoretical principles of individual human behavior. Students will be exposed to various topics in the field of psychological research. Psychology/Sociology are typically taken together.

SOCIOLOGY -- Grade Level: 9-12; Credit: ½

The scientific student of human society. It is concerned with the behavior of human beings in group situations. The study of sociology, therefore, consists of trying to understand the basic units and institutions of social life (family, schools, neighborhoods, rural and urban communities, etc.). Those groups can include occupational, political, religious, ethnic, family, economic status, or ideology. The sociological perspectives focus on how those social relationships arise, why they persist, why antagonisms develop, and how they maintain social order to contribute to social change. Psychology/Sociology are typically taken together.

VISUAL & PERFORMING ARTS

General Information: Students must earn 1 credit in the Visual or Performing Arts as a graduation requirement. Danville High School offers students the opportunity to earn this by specializing in an art form of their choice. If a student wishes to continue pursuing an art form upon graduation, (in either college or community/professional settings), it is strongly recommended that the student successfully complete AT LEAST 2 sequential courses in that art form, i.e. Art I and II or Theatre I and Theatre II. Please note 3rd and 4th year classes taught at Danville High School are eligible for honors credit in all art forms.

Visual & Performing Arts Pathway Information: Students wishing to continue studying the visual or performing arts in a significant way upon graduation may consider pursuing a Visual or Performing Arts Pathway. Successful completion of a pathway in a specific art form will prepare a student to be transition ready in that art form. Students will prepare for college entry auditions or portfolio presentations, scholarship opportunities in the visual and performing arts, and for teacher recommendations for study in these areas. Note: A student can complete a VPA Pathway in either three or four years of study. The four year option is shown below. For a three year pathway option please contact your student's teacher or the Director of Arts Education, jane.dewey@danville.kyschools.us.

Year 1	Year 2	Year 3	Year 4
Band I Choir I Theatre I Art I	Band II Choir II Theatre II Art II or Ceramics I	Honors Band III Honors Choir III Honors Theatre III Honors Art III or Ceramics II	Honors Band IV Honors Choir IV Honors Theatre IV, or Theatrical Workplace Experience Honors Art IV, Ceramics or Workplace Experience

*Successful completion of a teacher/student designed final capstone project is required for VPA Pathway completion.

ART I – Grade Level: 9-12; Credit: 1

In this course, students are introduced to art history, basic drawing techniques, and design skills.

ART II – Grade Level 10-12; Credit: 1

Students will expand on the basic concepts learned in Art I. Drawing and design skills will continue to be developed with increasingly more difficult assignments and new drawing media such as pastel, charcoal watercolor, acrylic painting and artist bookmaking. Students will become acquainted with significant artists, styles and issues relevant to contemporary art. Increased emphasis will be placed on critical analysis of their own artwork and the artwork of others. **Prerequisite: Art I**

HONORS ART III – Grade Level: 11-12: Credit: 1

Advanced techniques in painting and drawing are presented and challenging assignments present opportunities for problem solving. New media are introduced with a subject focus on portraiture and the human figure. Continued emphasis is placed on strengthening compositional skills. Individual expressiveness and growth in personal style are promoted through independent projects requiring self-direction and dedication to studio and extra-curricular performance. **Prerequisite: Art II**

HONORS ART IV – Grade Level: 12: Credit: 1

Advanced painting explores media and techniques with an emphasis on personal growth and expressiveness. The 3D Design class is a studio course which allows students to experience the challenges of 3-dimensional design and execution using various materials including clay and found objects, while applying the fundamental elements of composition learned through previous course work. The Senior Seminar course is an upper level studio course designed to allow the student to create a final masterwork and to provide the opportunity to mount a professional quality exhibition. **Prerequisite: Art III**

CERAMICS I – Grade Level: 10-12: Credit: 1

This course focuses on hand built ceramics, including slab, coil, and sculpture techniques. History of ceramics, geology of clay and chemistry of clay and glazes are also covered. **Prerequisite: Art I**

CERAMICS II – Grade Level: 10-12: Credit: 1

This course builds upon hand built, slab and coil skills. These concepts and skills include 3- dimensional problem solving, the application of hand building techniques in the creation of a sculptural ceramic piece. In addition, Ceramic II will provide the opportunity to develop wheel throwing skills as well as study ceramic work from different cultures. **Prerequisite: Ceramics I**

THEATRE I– Grade Level: 9-12: Credit: 1

Theatre I is designed to develop a foundational knowledge of theatrical concepts and techniques that will enable students to create new theatre pieces, perform existing theater works, and respond to both studio exercises and performances. The class covers multiple styles of dramatic literature and uses a variety of connections to historical and cultural contexts. This class explores the Kentucky and National Theatre standards at the Proficient Level and fulfills the VPA graduation requirement.

THEATRE II - Grade Level 10-12: Credit: 1

Theatre II students will build on foundational knowledge from Introduction To Theatre in both acting and technical and production elements through the hands-on application of theatre skills. Artistic processes include Creating, Performing, Responding and Connecting and students will delve more deeply into the tools of the actor and theatre technician while developing lifelong skills such as creative problem-solving and planning for community theatre work, college and a variety of careers including theatre, the arts, communications and entertainment fields. Topics include Theatre Production and students can choose to engage in acting or technical/production tasks. This class explores the Kentucky and National Theatre standards at the Proficient and Accomplished Levels. **Prerequisite: Theatre I or teacher permission.**

HONORS THEATRE III - Grade Level 11-12: Credit 1

Honors Theatre III students will create a theatre ensemble that explores advanced level theatrical skills and concepts. The Artistic Processes of Creating, Performing, Responding and Connecting will be applied to both period styles and contemporary theatre works. Students will learn the basics of directing and choose acting, directing and/or tech, production, and design projects. Students will continue developing creative problem solving and critical thinking skills while preparing for community theatre work, college and a variety of careers including theatre, the arts, communications and entertainment fields. This class explores the Kentucky and National Theatre standards at the Accomplished and Advanced Levels. **Prerequisite: Theatre II or teacher permission.**

HONORS THEATRE IV - Grade Level 12: Credit 1

Honors Theatre IV students will create a theatre ensemble and take on leadership roles in acting, directing, design, production or technical theatre. Artistic processes include Creating, Performing, Responding and Connecting and students will apply acting and technical skills while developing lifelong skills such as creative problem-solving and planning for college and careers in the theatre, the arts, communications and entertainment fields. Topics may be pursued individually or in groups and may include Play Production, Improvisation, Designing, Directing, Community Based Learning and other topics of the class' choosing. This class explores the Kentucky and National Theatre standards at the Advanced Level. **Prerequisite: Honors Theatre III or teacher permission.**

GRAVELY HALL PERFORMING ARTS CENTER STUDENT AIDE - Grade Level: 11 – 12(with permission) Credit: none

The GPAC student aides report to the GPAC Technical Director and the Director of Arts Education in this work-based experience. Students develop the basic technical skills needed to work in a performing arts center. They also explore communication skills, professionalism and working as a team.

THEATRE WORKPLACE EXPERIENCE -- Grade Level: 12; Credit: 1

This course provides work experience in a field related to drama and theatre. This is a cooperative course designed by the student, certified teacher, and organizational partner (ex. West T. Hill Community Theatre, Pioneer Playhouse, DISD elementary or middle school, and others).

VISUAL ARTS WORKPLACE EXPERIENCE -- Grade Level: 11-12; Credit 1

This course provides work experience in a field related to visual arts. This is a cooperative course designed by the student, certified teacher, and organizational partner (ex. Community Arts Center, Arts Commission of Danville/Boyle Co., DISD elementary or middle school, and others). Students are not paid. May include classroom activities involving further study and student reflections of the workplace experience. Can be repeated for credit.

HISTORY OF ROCK AND ROLL -- Grade Level: 9-12; Credit: 1

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

AP Music Theory -- Grade Level: 10-12; Credit: 1

AP Music Theory is an introductory college-level music theory course. Students cultivate their understanding of music theory through analyzing performed and notated music as they explore concepts like pitch, rhythm, form, and musical design.

BAND I - IV -- Grade Level: 9-12; Credit: 1

Band teaches music and humanities through group performance and advanced instrumental techniques. Students in this class will study, rehearse, and perform repertoire as chosen by the instructors. Membership in this organization will include participation in the marching and concert bands. Band Camp will be held the week before classes resume in the fall and after school practices will be held one day per week during the football season. The group will perform at all home football games, some basketball games, and in local parades. The group will also perform several concerts, attend festivals, and appear at various school and community functions throughout the year. Attendance at after school rehearsals and performances is compulsory. An annual band camp fee will be assessed each year; financial assistance is available. Band consists of four sequential years of study based on best practices in instrumental ensemble music instruction. **(Band III and IV are honors courses).**

LAB BAND -- Grade Level: 9-12; Credit: 1

Students will perform in a jazz band, pep band and musical performances throughout the year. This is an advanced musicianship class and students must be proficient on their instrument.

GUITAR ENSEMBLE -- Grade Level: 9-12; Credit: 1

Fundamental techniques for guitar emphasizing chord study and related literature. Areas of study include chords, right-hand picking and strumming patterns, exercises, theory as applied to guitar, history of the guitar, reading musical notation plus tablature, various styles of music and rhythm techniques. No previous experience needed to enter class. Students are required to practice and will have weekly playing tests.

PIANO I -- Grade level: 9-12; Credit: 1

This introductory course will work on the fundamentals of the piano such as beginning music theory, scales, and reading music. Students will perform in a recital at the end of the semester as their final. Students need headphones for this class. This course can be repeated for credit and the student will explore a higher level of skills and variety of music.

CHOIR I-II -- Grade Level: 9-12; Credit: 1

This ensemble is open to all students without auditions. Students will work to improve their singing and performing skills, while also learning music theory, and being exposed to a variety of musical styles and time periods. Students will have the opportunity to perform at various concerts, audition for *KMEA All State*, and compete in adjudicated events. All concert performances are mandatory and are part of the student's grade

Women's Choir -- Grade Level: 9-12; Credit: 1

This ensemble is open to all Women without auditions. Students will work to improve their singing and performing skills, while also learning music theory, and being exposed to a variety of musical styles and time periods. Students will have the opportunity to perform at various concerts, audition for *KMEA All State*, and compete in adjudicated events. All concert performances are mandatory and are part of the student's grade.

Men'S Choir -- Grade Level: 9-12; Credit: 1

This ensemble is open to all MEN without auditions. Students will work to improve their singing and performing skills, while also learning music theory, and being exposed to a variety of musical styles and time periods. Students will have the opportunity to perform at various concerts, audition for *KMEA All State*, and compete in adjudicated events. All concert performances are

mandatory and are part of the student's grade.

HONORS CHOIR III-IV-- Grade Level: 10-12; Credit: 1

Students refine vocal techniques and the ability to sing parts in small ensembles. Students develop vocal techniques focusing primarily on musical literature styles such as chamber, madrigal, traditional jazz, jazz improvisation, popular, rock, barber shop, gospel, show choir and cultural. These ensembles may include both instrumental and vocal music such as a small vocal ensemble with instrumental accompaniment. Course goals include the development of solo singing ability and emphasize one or several ensemble literature styles. These ensembles include experiences in creating and responding to music. Courses are offered on multiple levels to accommodate proficiency. **Teacher approval is required.**

HEALTH AND PHYSICAL EDUCATION

FITNESS AND WEIGHT TRAINING – Grade Level: 9-12; Credit: 1

This course is designed as a weight training program for students to gain muscle mass as well as quickness, agility, and speed.

HEALTH / PHYSICAL ED / DANCE – Grade Level: 9-10; Credit: 1

Health addresses 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. PE involves the teaching of lifetime leisure sports, individual sports, team sports and dance.

ADV. PHYSICAL EDUCATION – Grade Level: 10-12; Credit: 1

This course will emphasize developing fitness habits that contribute to a healthy lifestyle. A wide variety of competitive team, dual, and individual activities will be offered during the year with an emphasis on lifetime fitness and recreation.

WORLD LANGUAGES

SPANISH I – Grade Level: 9-11; Credit: 1

This course is an introduction to Spanish language and culture. Students are expected to reach Novice Mid in Interpersonal Communication, Presentational Speaking and Writing and Interpretive Listening and Reading.

SPANISH II – Grade Level: 9-12; Credit: 1

Prerequisite: Spanish 1. This course continues introductory Spanish and Hispanic culture. Students are expected to reach Novice High in Interpersonal Communication, Presentational Speaking and Writing and Interpretive Listening and Reading.

HONORS SPANISH III – Grade Level: 10-12; Credit: 1

Prerequisite: Spanish 2. This course includes the development of conversational skills, listening comprehension, writing and more in-depth culture. Students are expected to reach Intermediate Low in Interpersonal Communication, Presentational Speaking and Writing and Interpretive Listening and Reading.

HONORS SPANISH IV – Grade Level 10-12; Credit: 1

Prerequisite: Spanish III. This course is an intensive continuation of reading, writing, listening and conversational skills. Additionally, students will study more in-depth culture and literature. Students are expected to reach Intermediate Mid in Interpersonal Communication, Presentational Speaking and Writing and Interpretive Listening and Reading.

AP SPANISH LANGUAGE – Grade Level 11-12; Credit: 1

Prerequisite: Honors Spanish IV. This course includes the study of selected literature, continued development of conversational skills, emphasis on writing skills and listening comprehension. Students are expected to reach Intermediate High in Interpersonal Communication, Presentational Speaking and Writing and Interpretive Listening and Reading. It is recommended that students take the AP Spanish Language exam in May.

Dual Credit Spanish (SPA 101 and 102) -- ELEMENTARY SPANISH I & II- Grade Level 11-12; Credit: 1

Introduces basic modes of communication in Spanish. Stresses speaking, listening, reading and writing as target skills. Emphasizes everyday language which the students will learn by applying essential grammatical structures to vocabulary. Provides instructional assignments and self-correctional exercises that will be practiced in the classroom. Presents an overview of the culture of various Spanish-speaking countries. SPA 102 continues to highlight the basic modes of communication in Spanish, to include present and past tense. Stresses speaking, listening, reading and writing as target skills. Emphasizes everyday language which the students will learn by applying essential grammatical structures to vocabulary. Presents an overview of the culture of various Spanish-speaking countries. Prerequisite: SPA 101, or consent of the department and placement test.

GENERAL ELECTIVES

JOBS FOR AMERICA'S GRADUATES (JAG) – Grade Level: 9-12; Credit: 1

This class is designed to equip students with skills that will enable them to achieve all requirements for graduation and then to transition after graduation to a positive destination in the form of a job, postsecondary education or the military.

EXCEPTIONAL NEEDS PEER TUTORING: Grade level: 11-12 Credit: 1

Peer tutoring offers students opportunities to learn a variety of interactive skills that will be important in adult life. Students assist in implementing instruction to students with disabilities. Application and principal approval required.

OFFICE AIDE: Grade level: 11-12 Credit: 0

Work-based experience that provides an opportunity to develop and improve on skills necessary to be successful in the workforce. The skills that are explored include communication skills, professionalism and working as a team. Principal approval required.

LEARNING LAB: Grade level: 9-12 Credit: 1

This course provides students with time during the school day to complete an online elective through Edgenuity. Please see your counselor for a list of available courses, and additional information.

SCHOOLS TO WORK: 11-12 Credit: 1 Pass/Fail

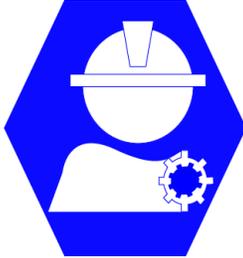
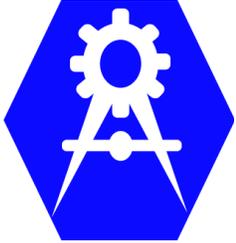
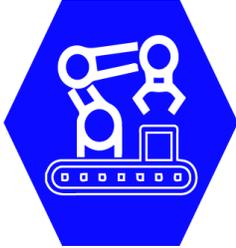
This course is open for students who are working or volunteering 10 hours a week. Students may only take this one period per year.

*See CTE Pathways and Dual Enrollment for additional elective options.

CAREER AND TECHNICAL EDUCATION

Career and Technical Education (CTE) is an essential component of the high school curriculum. For many students, it represents as much as a third of their high school experience. It is a critical component in meeting the needs of students in academic achievement, career exploration, career preparation and leadership development. Successful transition to postsecondary education, work or the military is one of the goals of Kentucky's educational system. The percentage of students making a successful transition is a component of the high school accountability index.

Students have access to 8 different career clusters and 22 different pathways.

 <p>BUSINESS AND MARKETING EDUCATION (DHS)</p>	 <p>CONSTRUCTION TECHNOLOGY (Garrard Co.)</p>	 <p>ENGINEERING TECHNOLOGY EDUCATION (DHS/EKU)</p>
 <p>HEALTH SCIENCE (DHS)</p>	 <p>INFORMATION TECHNOLOGY (DHS, LC, and EKU)</p>	 <p>MANUFACTURING TECHNOLOGY EDUCATION (Garrard Co.)</p>
 <p>MEDIA ARTS (DHS)</p>	 <p>TRANSPORTATION EDUCATION (Garrard Co.)</p>	

***Also see the dual credit section for CTE Pathway options**

BUSINESS AND MARKETING EDUCATION at DHS

Provides relevant learning that is a critical link to employment and post-secondary education, encourages the development of vital relationships with the business community, and promotes critical thinking and problem solving.

E-COMMERCE

This pathway focuses on the creation, execution, transmission, and evaluation of commercial messages in various media intended to promote and sell products, services, and brands; and that prepares individuals to function as advertising assistants, technicians, and managers. Includes instruction in advertising theory; marketing strategy; advertising design and production methods; campaign methods and techniques; media management; related principles of business management; and applicable technical and equipment skills.

Need these 2 courses for this pathway:

DIGITAL LITERACY- Grade Level: 9-12: Credits: 1

Students will use a computer and application software including word processing, presentations, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented. Leadership development will be provided through FBLA (Future Business Leaders of America) and/or DECA.

MARKETING PRINCIPLES- Grade Level: 9-12: Credits: 1

Marketing Principles introduces students to the dynamic processes and activities in marketing. The course develops student understanding and skills in the functional areas of marketing, as well as business law, communication skills, customer relations, economics, human resources management, and operations. Current technology will be used to acquire information and to complete activities. Throughout the course, students are presented ethical dilemmas and problem-solving situations for which they must apply academic and critical-thinking skills. Leadership development will be provided through FBLA and/or DECA

Choose 2 courses from options below:

PRINCIPLES OF ENTREPRENEURSHIP- Grade Level: 11-12: Credits: 1

Principles of Entrepreneurship introduces students to a wide array of entrepreneurial concepts and skills, including the role of entrepreneurship in our economy, entrepreneurial discovery processes, ideation, and preliminary start-up venture planning. Students also develop an appreciation for marketing's pivotal role in the development and success of a new business. They become acquainted with channel management, pricing, product/service management, and promotion. Students conduct thorough market planning for their ventures: selecting target markets; conducting market, SWOT, and competitive analyses; forecasting sales; setting marketing goals and objectives; selecting marketing metrics; and setting a marketing budget. The capstone activity in the course is the development of detailed marketing plans for students' startup businesses. Throughout the course, students are presented ethical dilemmas and problem solving situations for which they must apply academic and critical-thinking skills. Leadership development will be provided through FBLA and/or DECA.

MARKETING APPLICATIONS- Grade Level: 12: Credits: 1

Marketing Applications furthers student understanding and skills in the various marketing functions. Students coordinate channel management with other marketing activities, discuss the nature of marketing plans, generate product ideas, coordinate activities in the promotional mix, and demonstrate specialized sales processes and techniques. Economic and financial concepts are also stressed throughout the course. Current technology will be used to acquire information and to complete the projects. Throughout the course, students are presented problem-solving situations for which they must apply academic and critical-thinking skills. Formal reflection is an on-going component of the course along with four projects. Leadership development will be provided through FBLA and/or DECA.

MARKETING EDUCATION CO-OP- Grade Level: 12: Credits: 1-3

Cooperative Education for CTE (Career and Technical Education) courses provide supervised work site experience related to the student's identified career pathway. A student must be enrolled in an approved pathway course during the same school year that the co-op experience is completed, or have already completed the pathway the previous year. Students who participate receive a salary for these experiences, in accordance with local, state and federal minimum wage requirements according to the Work Based Learning Manual.

Career Titles:

- Communication Specialist
- E-Business Consultant
- Economic Development Officer
- Media Buyer
- Retail Salesperson
- Sales Representative
- Web Developer
- Webmaster
- Website Designer

MARKETING

This pathway generally prepares individuals to undertake and manage the process of developing consumer audiences and moving products from producers to consumers. Includes instruction in buyer behavior and dynamics, principles of marketing research, demand analysis, cost-volume and profit relationships, pricing theory, marketing campaigns and strategic planning, market segments, advertising methods, sales operations and management, consumer relations, retailing, and applications to specific products and markets.

Need these 2 courses for this pathway:

MARKETING PRINCIPLES- Grade Level: 9-12; Credits: 1

See description above.

MARKETING APPLICATIONS- Grade Level: 12; Credits: 1

See description above.

Choose 2 courses from options below:

PRINCIPLES OF ENTREPRENEURSHIP- Grade Level: 11-12; Credits: 1

See description above.

PERSONAL FINANCE- Grade Level: 9-12; Credits: 1

The goal of the Personal Finance course is to help students to become financially responsible, conscientious members of society. To that end, this course develops student understanding and skills in such areas as money management, budgeting, financial goal attainment, the wise use of credit, insurance, investments, and consumer rights and responsibilities. Throughout the course, students also examine contemporary, real-world ethical dilemmas that individuals commonly encounter when managing their personal finances. A correlation to the math content in the Career Studies Standards was used in developing this course to count as a 4th math elective. Leadership development will be provided through FBLA and/or DECA.

MARKETING EDUCATION CO-OP- Grade Level: -12; Credits: 1-3

See description above.

Career Titles:

- Advertising Account Executive
- Airline Customer Service Agent
- Convenience Store Operator
- Customer Service Representative
- Fashion Retailer Interior Designer
- Market Research Analyst
- Public Relations Specialist
- Purchaser Set Designer
- Sports Marketer
- Telemarketer
- Travel Agent

ENGINEERING TECHNOLOGY EDUCATION at DHS

Engineering Technology Education prepares students for high-demand high-skill Science, Technology, Engineering, and Mathematics (STEM) careers.

MECHANICAL ENGINEERING

Engineering is a four year sequence of courses which, when combined with traditional mathematics and science courses in high school, introduces students to the scope, rigor and discipline of engineering. This pathway prepares individuals to apply mathematical and scientific principles to the design, development and operational evaluation of physical systems used in manufacturing and end product systems for specific uses, including machine tools, jigs and other manufacturing equipment; stationary power units and appliances; engines; self-propelled vehicles; housings and containers; hydraulic and electric systems for controlling movement; and the integration of computers and remote control with operating systems. Mechanical Engineers design, develop, build, and test mechanical and thermal sensors and devices including tools, engines, and machines. **Must take all of the courses listed below to complete this pathway.**

ENGINEERING I- Grade Level: 9-12; Credits: 1

This course applies the skills, concepts, and principles of engineering. Topics include investigating technological systems, design optimization, and problem solving. Students utilize CAD (computer-aided design) and physical and virtual modeling concepts to construct, test, collect, and report data.

ENGINEERING II- Grade Level: 9-12; Credits: 1

Project and research based course where students focus on mechanical, electrical, fluid and thermal systems allowing in depth exploration in selected disciplines of engineering areas such as manufacturing, power/energy/transportation, robotics, hydraulics, electricity/electronics, communications, construction systems, alternative energy, computer-aided design, and problem solving.

ROBOTICS ENGINEERING- Grade Level: 10-12; Credits: 1

This course provides students with the foundation in content and skills associated with robotics and automation, including artificial intelligence, electronics, physics, and principles of engineering.

AP COMPUTER SCIENCE PRINCIPLES- Grade Level: 11-12; Credits: 1

This course is designed to introduce students to the central ideas of computer science, to instill ideas and practices of computational thinking, and to have students engage in activities that show how computing changes the world.

Career Titles:

- Engineering Technology Instructor
- Solar Energy Technician
- Wind Power Technician
- Energy Auditor
- Electrical Mechanical Technician
- Power Plant Technician
- Turbine Technician
- Energy Analyst
- Electrical Engineering
- Mechanical Engineering

FLIGHT AND AERONAUTICS

Students will complete what is considered the first phase of aviation training leading to a commercial pilot license. They will gain technical knowledge and skills to the flying and/or navigation of commercial passenger and cargo, agricultural, public service, corporate aircraft flight systems and controls, flight crew operations and procedures, radio communications, navigation procedures and systems, airways safety and traffic regulations, and governmental rules and regulations pertaining to piloting aircraft. **Must take all of the courses below to complete this pathway.**

INTRO TO AEROSPACE- Grade Level: 9-10; Credits: 1

This core aerospace and aviation course provides the foundation for all flight and aviation pathways. Students will gain an appreciation for the similarities and differences between aviation and aerospace. Students will also gain a historical perspective starting from the earliest flying machines to the wide variety of modern aircraft and the integral role they play in making today's world work. Students will learn about the history and impact of space exploration and have opportunities to build and fly historical and contemporary aircraft and spacecraft designs. Students will also begin to drill down into the various sectors of aviation and the parts that make up the aviation and aerospace ecosystem. They will discover how advances in aviation created a need for regulation and will learn about the promulgation of civil aviation oversight. Participation in Kentucky Technology Student Association will greatly enhance instruction.

FUNDAMENTALS OF AVIATION SCIENCE- Grade Level: 9-12; Credits: 1

This course will introduce students to basic aircraft structures and their major components, principles of flight, and the fundamental physical laws affecting flight. Students will learn about basic aerodynamics and forces that act on

aircraft in flight. This course will provide students with a foundational understanding of basic physics concepts related to flight. Design characteristics will be covered, including concepts surrounding aircraft stability, controllability, and the effect of weight and balance on flight performance. The course will cover primary and secondary flight control systems. It also covers the different types of power plants and how they support the operation of the aircraft. Students will learn about several different types of fuel systems and gain an understanding of the critical components of aircraft electrical systems. Finally, students will learn about various systems that drive flight instruments and how those flight instruments operate. Participation in Kentucky Technology Student Association will greatly enhance instruction.

AEROSPACE ENGINEERING- Grade Level: 10-12; Credits: 1

This course will introduce the principles of flight and aerodynamics and lay the ground work for applying engineering principles. This aerodynamics course focuses on the study of the flow of air about an airfoil. Students will interact with technology which simulates various airfoil designs and determines airflow around various shapes. This course also introduces aerospace engineering as an interdisciplinary profession, including other areas of engineering. Students will learn the engineering design process, which includes defining the need or problem, researching related principles and solutions, creating designs, testing prototypes, evaluating, and redesigning. Relationships between aircraft performance and other aspects of engineering (such as designing runways) will also be explored. Students will learn to analyze and interpret data to improve performance. Participation in Kentucky Technology Student Association will greatly enhance instruction.

UNMANNED AIRCRAFT SYSTEMS- Grade Level: 11-12; Credits: 1

This course is an introduction to unmanned aircraft systems (UAS). A history of UAS, typical applications and an overview of regulations, airframe and powerplant systems, sensors, ground control stations, airspace, weather, and other foundational skills needed to safely operate UAS in the U.S. airspace systems will be covered. This course will incorporate hands-on practical applications and will give students the opportunity to design, build, and pilot UAS, both remotely and autonomously. Students will be prepared to complete the Part 107 Remote Pilot written exam through this course.

Career Titles:

- Aerospace Engineer
- Astronaut
- Engineering Technician

Suggested Academic Attainment by Completion of Pathway:

1. *Minimum of Pre-Calculus*
2. *Physics*
3. *Chemistry*

HEALTH SCIENCE at DHS

Health Science Education prepares students for careers in healthcare through instruction in the classroom, experiential education in laboratory settings, work-based learning opportunities in clinical settings, and leadership skills through HOSA: Future Health Professionals. Health Science Education is rich with opportunities for collaboration with industry partners. It provides a comprehensive and diverse experience for students interested in careers in healthcare.

PATIENT CARE TECHNICIAN

This pathway prepares individuals for admission to a professional program in nursing. This pathway focuses on caring for patients in an acute care setting. **Must take all of the courses below to complete this pathway.**

PRINCIPLES OF HEALTH SCIENCE- Grade Level: 9-12; Credit: 1

Principles of Health Science is an orientation and foundation for occupations and functions in any health care profession. The course includes broad health care core standards that specify the knowledge and skills needed by the vast majority of healthcare workers. The course focuses on exploring health career options, history of health care, ethical and legal responsibilities, leadership development, safety concepts, health care systems and processes, and basic health care industry skills. This introductory course may be a prerequisite for additional courses in the Health Science program.

EMERGENCY PROCEDURES- Grade Level: 10-12; Credit: 0.5

This course will focus on potential emergency situations. It is designed to promote an understanding of standard precautions necessary for personal and professional health maintenance and infection control. Upon successful completion of the course, the student will demonstrate the necessary skills in First Aid and Cardiopulmonary Resuscitation (CPR) and will be given the opportunity to take the completion examination as outlined by the sponsoring agency.

MEDICAL TERMINOLOGY- Grade Level: 10-12; Credit: 0.5

Medical Terminology is designed to develop a working knowledge of language in all health science major areas. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. Students will learn correct pronunciation, spelling, and application rules. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

BODY STRUCTURES AND FUNCTIONS- Grade Level: 11-12; Credit: 1

Body Structures and Functions is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy. The interactions of all body systems in maintaining homeostasis will promote an understanding of the basic human needs necessary for health maintenance. Academic knowledge from life science core content as it relates to the human body will be included. Laboratory activities should be a part of the course when appropriate.

ACUTE CARE BASIC SKILLS- Grade Level: 12; Credit: 1

PREREQUISITES: PRINCIPLES OF HEALTH SCIENCE, MEDICAL TERMINOLOGY, AND EMERGENCY PROCEDURES
This course introduces students to basic health care skills. It prepares individuals to perform routine nursing-related services to patients in an acute care setting under the training and supervision of an approved registered nurse. Certification is available upon successful completion of National Healthcare Association (NHA) Patient Care Technician exam. This course is designed for students not enrolled in the Medicaid Nurse Aide program. This course is taught by a registered nurse.

Career Titles:

- Licensed Practical Nurse
- Nurse
- Nurse Practitioner
- Nursing Assistant
- Physician's Assistant
- Doctor

Setting: Hospital or clinic

PHARMACY TECHNICIAN

This pathway prepares individuals, under the supervision of pharmacists, to prepare medications, provide medications and related assistance to patients, and manage pharmacy clinical and business operations. Includes instruction in medical and pharmaceutical terminology, principles of pharmacology and pharmaceuticals, drug identification, pharmacy laboratory procedures, prescription interpretation, patient communication and education, safety procedures, recordkeeping, measurement and testing techniques, pharmacy business operations, prescription preparation, logistics and dispensing operations, and applicable standards and regulations. **Must take all of the courses listed below to complete this pathway.**

PRINCIPLES OF HEALTH SCIENCE- Grade Level: 9-12; Credit: 1

See description above.

EMERGENCY PROCEDURES- Grade Level: 10-12; Credit: 0.5

See description above.

MEDICAL TERMINOLOGY- Grade Level: 10-12; Credit: 0.5

See description above.

BODY STRUCTURES AND FUNCTIONS- Grade Level: 11-12; Credit: 1

See description above.

PHARMACY TECHNICIAN- Grade Level: 11-12; Credit: 1

This course may be completed as an independent study or classroom course during the student's senior year. Material covered will include orientation, federal law, medication review, aseptic techniques, calculations, and pharmacy operations. It is best practice for students to participate in a work-based learning experience at a pharmacy during this course. Upon successful completion of this internship, students may be eligible to take the Pharmacy Technician Certification examination in order to obtain national certification. Students will be required to follow program and agency requirements for attendance and health screenings. These may include but are not limited to drug screens, TB (tuberculin) skin test, and immunization certificates.

Career Titles:

- Pharmacy Technician

***See Garrard County and Lincoln County CTE sections for additional Health Science options.**

MEDIA ARTS at DHS

Media Arts is defined by all genres and forms that use electronic media, film and technology (analog & digital; old and new) as an artistic medium or a medium to broaden arts appreciation and awareness of any discipline. This includes projects presented via film, television, radio, audio, video, the Internet, interactive and mobile technologies, video games, immersive and multi-platform storytelling, and satellite streaming. The interest and use of technology in classroom instruction has gained momentum as a wide spectrum of creative activities in Media Arts are more readily available. Media Arts Education prepares students for careers applying technical knowledge, skills and experiences in fields including cinema, animation, sound imaging design, virtual design, interactive design, as well as multimedia and intermedia.

CINEMATOGRAPHY AND VIDEO PRODUCTION

The Cinematography and Video Production pathway prepares students to communicate dramatic information, ideas, moods, and feelings through the making and producing of videos and cinematographic expression. The pathway includes the theory of video, video technology and equipment operation, video production, video directing, video editing, cinematographic art, video and audio technique, and multi-media production. The pathway prepares students to function as staff, producers, directors, and managers of media programming and media organizations. Topics of study in this pathway include writing and editing; performing; media regulations, law, and policy; aesthetic meaning, appreciation, and analysis; construction, development, processing, modeling, simulation and programming of audio, and moving image programs and messages; transmission, distribution, and marketing; contextual, cultural and historical aspects, and considerations. ***Must take all of the courses listed below to complete this pathway.***

INTRODUCTION TO MEDIA ARTS- Grade Level: 9-12; Credit: 1

This course is an introduction to and survey of the creative and conceptual aspects of designing media arts experiences and products, including techniques, genres and styles from various and combined media and forms, including moving image, sound, interactive, spatial and/or interactive design.

VIDEO STUDIO FUNDAMENTALS- Grade Level: 10-12; Credit: 1

This course will expose students to the materials, processes, and artistic techniques involved in creating video productions. Students learn about the operation of cameras, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture, and editing techniques. Course topics may include production values and various styles of video production including documentary, storytelling, news magazines, and animation. Students may be exposed to digital and traditional film. As students advance, they are encouraged to develop their own artistic styles. Major filmmakers, cinematographers, video artist, and their work may be studied.

STUDIO DIRECTING AND PERFORMANCE- Grade Level: 11-12; Credit: 1

This course explores the role of the director within the studio system. Students develop knowledge and skills in studio multi-camera and field television production. Students also develop performance skills for broadcasting including interpretation of copy, news casting, and ad lib announcing. The course covers techniques of narrative and non-fiction writing and scripting, the analysis and writing of radio, television, and video materials, including storytelling and screenwriting.

MEDIA ARTS INTERNSHIP- Grade Level 11-12; Credit: 1

Internship for CTE courses provides supervised work-site experience for high school students who are enrolled in a course associated with their identified career pathway. Internship experiences consist of a combination of classroom instruction and field experiences. A student receiving pay for an intern experience is one who is participating in an experience that lasts a semester or longer and has an established employee-employer relationship. A non-paid internship affects those students who participate on a short-term basis (semester or less). All information references to the Work Based Learning Manual.

Career Titles:

- Advertising Copywriter
- Audio-Visual Technician
- Broadcast Technician

- Camera Operator
- Director
- Director of Photography
- Film and TV Crew
- Film Editor
- Photographer
- Photojournalist
- Radio/Television Program Director

GRAPHIC DESIGN

The Graphic Design pathway prepares students to apply skills that focus on the principles and techniques for effectively communicating ideas/information and packaging products to business and consumer audiences- both in digital and other formats. Topics of study in this pathway include aesthetic meaning, appreciation and analysis; construction, development, processing, modeling, simulation and programming of interactive experiences; transmission, distribution and marketing; contextual, cultural and historical aspects and considerations. **Must take all of the courses listed below to complete this pathway.**

INTRODUCTION TO MEDIA ARTS- Grade Level: 9-12; Credit: 1

See description above.

TWO-DIMENSIONAL MEDIA DESIGN- Grade Level: 10-12; Credit: 1

This course is a proficient study and production of creative and conceptual aspects of signing and producing digital imagery, graphics, and photography. This includes techniques, genres, and styles from fine arts and commercial advertising, internet and multimedia, web design, and industrial and virtual design. Students use a computer as an electronic drawing tool to solve visual communications and illustration problems in designing products. This course entails the use of current software for two-dimensional illustration, creating and integrating text, using color, and importing and exporting files.

DIGITAL IMAGING- Grade Level: 11-12; Credit: 1

This course is an accomplished study and production of creative and conceptual aspects of designing and producing digital imagery, graphics, and photography. This includes techniques, genres, and styles from fine arts and commercial advertising, internet and multimedia, web design, and industrial and virtual design. Students use a computer as an electronic drawing tool to solve visual communications and illustration problems in designing authentic products. This course entails an accomplished use of current software for two-dimensional illustration, creating and integrating text, using color, and importing and exporting files. Typical course topics include aesthetic meaning and analysis of computer-generated works; composing, capturing, processing, and programming of imagery and graphical information; their transmission, distribution and marketing; as well as contextual, cultural and historical aspects and considerations.

MEDIA ARTS INTERNSHIP- Grade Level 11-12; Credit: 1

See description above.

Career Titles:

- Advertising Account Executive
- Advertising Copywriter
- Art Director
- Graphic Designer
- Sign Maker
- Visual Merchandiser

COMPUTER SCIENCE at DHS

Information Technology (IT) is the study, design, development, implementation, support or management of computer-based information systems, particularly software applications and computer hardware. Information Technology (IT) Education prepares students for careers applying technical knowledge and skills in the rapidly growing fields of computer science, programming, cybersecurity, digital media, desktop support services, networking, and e-commerce/web design.

COMPUTER SCIENCE CIP

The Computer Science Pathway courses focus on computer theory, computing problems and solutions, and design of computer systems and user-interfaces. The coursework will include instruction in the principles of computational science, computer development and programming and applications to a variety of end use situations.

DIGITAL LITERACY- Grade Level: 9-12: Credit: 1

Students will use a computer and application software including word processing, presentations, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented. Leadership development will be provided through FBLA (Future Business Leaders of America) and/or DECA.

AP COMPUTER SCIENCE PRINCIPLES- Grade Level: 10-12: Credits: 1

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

CSC 170 -- INTRODUCTION TO GAME PROGRAMMING- Grade: 11-12, Credits: 1

(Satisfies CTE Course 110220 PYTHON I) *Prerequisite: MAT 112A/B or higher with a grade of "C" or higher, or a minimum score of 22 on the mathematics portion of the ACT, or a minimum score of 530 on the math portion of the SAT.*

CSC 190 -- OBJECT-ORIENTED PROGRAMMING- Grade: 11-12, Credits: 1

(Satisfies CTE Course 110809 JavaScript) *Prerequisite: MAT 122 or higher with a grade of "C" or higher or a minimum score of 25 on the mathematics portion of the ACT, or a minimum score of 590 on the mathematics portion of the SAT.*

Career Titles:

- Computer Software Engineer
- Database Developer
- Computer Hardware Engineer
- Computer Network Specialist
- Computer Scientist
- Information Security Analyst
- Computer Programmer
- IT Project Manager

***See Lincoln County CTE Section for additional Computer Science Pathways**

CTE Pathways at Garrard County Area Technology Center

Note: Space is limited for Garrard County CTE Pathways. Please see your counselor for more information and to express interest.

COMMERCIAL CARPENTRY

The Commercial Carpentry Skilled Trades TRACK is designed as a pre-apprenticeship pathway for students to have the opportunity to enter a post-secondary Registered Apprenticeship training program after graduation while still potentially earning credit for classes taken that relate to the apprenticeship.

Career Titles: Carpenter, Construction Laborer, Construction Manager, Construction Tradesperson, Drywall Installer, Flooring Installer, Production Woodworker, Cost Estimator

ELECTRICAL TECHNICIAN

Electrical technicians apply electrical theory and related knowledge to diagnose and modify developmental or operational electrical machinery and electrical control equipment and circuitry in industrial or commercial plants and laboratories. They assemble and test experimental motor control devices, switch panels, transformers, generator windings, solenoids, and other electrical equipment and components according to engineering data and knowledge of electrical principles.

Career Titles: Electrical Technician, Electrical Engineer, Electronics Engineer

ARCHITECTURAL TECHNOLOGY

Architectural technology utilizes mathematical and scientific principles to draw building layouts including structural, HVAC, lighting, plumbing and electrical systems while addressing issues that include functionality, safety and economic factors. Architectural drafters need to be able to draw designs manually, as well as through computer-aided drafting (CAD). Additional concerns are site considerations and building codes.

Career Titles: Architectural Engineer, Architectural Drafter, Architectural CAD

WELDER ENTRY LEVEL

An entry level welder demonstrates the ability to assist lead welders in the fabrication of steel and metal structures. Students must be adept at performing basic welding functions and calculating dimensions as well as operating power equipment, grinders and other related tools. Students must be proficient in reading and interpreting basic blueprints and following work procedure specifications (WPS).

Career Titles: Combination Welder, Pipe Welder, Ironworker, Tungsten Inert Gas (TIG) Welder, Certified Welding (Instructor), Inspector, Welding Engineer

AUTOMOTIVE MAINTENANCE AND LIGHT TECHNICIAN

This is a program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. It includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drivetrains, and heating and air conditioning systems.

Career Titles: Automotive Service Technician, Auto Detailer, Automotive Recycler, Customer Service Representative, Dispatcher, Warranty Clerk, Automobile Salesperson, Service Manager

PRE-NURSING

This pathway prepares individuals for admission to a professional pathway in Nursing.

Career Titles: Licensed Practical Nurse, Nurse, Nurse Practitioner, Nursing Assistant, Physician's Assistant, Doctor

Setting: Nursing Home

PHLEBOTOMY TECHNICIAN

This pathway prepares individuals, under the supervision of physicians and other healthcare professionals, to draw blood samples from patients using a variety of intrusive procedures. Includes instruction in basic vascular anatomy and physiology, blood physiology, skin puncture techniques, venipuncture, venous specimen collection and handling, safety and sanitation procedures, and applicable standards and regulations.

Career Titles: Medical Lab Tech, Phlebotomist

CTE Pathways at Lincoln County Technical Center

Note: Space is limited for Garrard County CTE Pathways. Please see your counselor for more information, and to express interest.

INFORMATION SUPPORT AND SERVICES

The Information Support and Services pathway focuses on the design of computing systems. The courses include instruction in the principles of computer hardware and software components, algorithms, databases, and telecommunications.

Career Titles: Computer Trainer, Customer Service Representative, Data Entry Clerk, Electronics Repair, Quality Control, Computer Support, Technical Writer

NETWORK ADMINISTRATION

The Network Administration pathway courses will help students learn new administration support skills or upgrade existing computer information systems skills. Students will be able to properly install networking software on an appropriately sized computer; configure the software for a simple server environment and connect it correctly to a physical network; manage a simple networking environment; effectively troubleshoot problems; adding new users and attending to security concerns; and work within the ethical/professional parameters in the field of network administration.

Career Titles: Network Server Administrator, Microsoft Server Administrator, System Administrator, Network Administrator, CISCO Hardware Engineer

WEB DEVELOPMENT/ADMINISTRATION

The Web Development/Administration pathway involves creating, designing, and producing interactive multimedia products and services. This will include development of digitally generated or computer-enhanced media, and the adherence to web standards, as used in business, training, communications and marketing. Organizations of all types and sizes use digital media, web pages, and websites to communicate with existing and potential customers, to track transactions, and to collaborate with colleagues. This pathway will prepare students to enter the workforce ready to participate as leaders in a broad range of careers and further their education.

Career Titles: IT Project Manager, Webmaster, Website Designer, Web Developer, Computer Programmer

ALLIED HEALTH

This pathway is a general, introductory, undifferentiated, or joint pathway in health services occupations that prepares individuals for either entry into specialized training programs or for a variety of concentrations in the allied health area. Includes instruction in the basic sciences, research and clinical procedures, and aspects of the subject matter related to various health occupations.

Career Titles: Doctor, Nurse, Pharmacist, Physical Therapist, Radiologist, Surgeon, Psychologist, Veterinarian

PRE-NURSING

This pathway prepares individuals for admission to a professional pathway in Nursing.

Career Titles: Licensed Practical Nurse, Nurse, Nurse Practitioner, Nursing Assistant, Physician's Assistant, Doctor
Setting: Nursing Home

CNC OPERATOR

Classes will focus on designing and making metal parts both manually and using a CNC machine. There is also a 3D printer in this program as well as some CAD necessary to design and layout the parts. This program is one that feeds the AMT program at BCTC Danville Campus. The industry certification for this program is NIMS and this program is eligible to students as dual credit courses through Somerset Community College.

Career Titles: CNC Machine Operator, Service Programmer, Quality Control Manager

ELECTRICAL TECHNICIAN

Electrical technicians apply electrical theory and related knowledge to diagnose and modify developmental or operational electrical machinery and electrical control equipment and circuitry in industrial or commercial plants and laboratories. They assemble and test experimental motor control devices, switch panels, transformers, generator windings, solenoids, and other electrical equipment and components according to engineering data and knowledge of electrical principles.

Career Titles: Electrical Technician, Electrical Engineer, Electronics Engineer

MAINTENANCE MECHANIC

Classes will focus on maintaining equipment in an industrial setting. There will be some hydraulics instruction, electricity instruction, welding instruction as well as machine maintenance instruction in this program. The industry certification for this program is NCCER. This program is one that feeds the AMT program at BCTC Danville Campus.

Career Titles: Maintenance Mechanic, Maintenance Inspector, Maintenance Supervisor, Industrial Engineer Tech, Mechanical Engineer, Millwright

WOOD MANUFACTURING

Classes focus on furniture design and construction, cabinetmaking, wood finishing, and some CAD for the furniture and cabinet design as well as technical drawing for design as well. The industry certification for this program is WCA.

Career Titles: Production Woodworker, Machine Setter, Millworker, Wood Product Supervisor, Furniture Maker, Wood Product Engineer, Wood Technologist

DUAL CREDIT OPPORTUNITIES

Students must meet the requirements for enrollment as determined by each individual college and program. Courses may or may not be offered depending on enrollment numbers, and some courses may change due to instructor availability. Additional courses may be available to students through other colleges and programs. Danville High School partners with the following colleges to offer dual credit opportunities to our students:

- Bluegrass Community and Technical College
- Eastern Kentucky University
- Kentucky State University
- Western Kentucky University
- Campbellsville University
- University of Louisville

DUAL CREDIT SCHOLARSHIP	WORK READY SCHOLARSHIP
<p>The Dual Credit Scholarship provides assistance for Kentucky high school and home school students who are taking dual credit classes at a participating Kentucky college or university. Eligible students may receive scholarships for up to two classes.</p> <ul style="list-style-type: none"> ● Student Must: <ul style="list-style-type: none"> ○ Be a Kentucky resident; and ○ Be enrolled in a Kentucky public or private high school, or Kentucky homeschool, in grades 11 or 12; and ○ Be enrolled, or approved for enrollment, in an approved dual credit class at a participating Kentucky college or university; and ○ Complete a 30-minute college success counseling session each year a scholarship is awarded. ● Award: <ul style="list-style-type: none"> ○ Equal to dual credit class amount charged by the participating college or university. ○ Limited to two dual credit classes. ○ May not be used for developmental, remedial or repeated classes. 	<p>The Work Ready Scholarship helps Kentuckians who have not yet earned an associate's degree afford an industry-recognized certificate or diploma.</p> <ul style="list-style-type: none"> ● A high school student must: <ul style="list-style-type: none"> ○ Be a Kentucky resident ○ Be enrolled in a Kentucky high school ○ Not be eligible for, or have exhausted eligibility for, the Dual Credit Scholarship Program ○ Be enrolled, or accepted for enrollment in, an approved dual credit course at an eligible institution <ul style="list-style-type: none"> ■ Approved dual credit courses for the Work Ready Kentucky Scholarship are limited to Career and Technical Education coursework that is in a career pathway approved by the Kentucky Department of Education as leading to an industry-recognized credential. ● Award: <ul style="list-style-type: none"> ○ Equal to the dual credit course amount charged by an eligible college or university ○ Limited to two dual credit courses ● Eligibility limit: <ul style="list-style-type: none"> ○ Expires when the first of the following conditions is met: <ul style="list-style-type: none"> ■ Receipt of scholarship funding for four academic terms; ■ Receipt of the scholarship for 60 credit hours of enrollment ■ Receipt of a first associate's degree

GENERAL EDUCATION CORE COURSES

Below is a list of general education courses that are eligible for dual credit from each KCTCS institution, provided the institution offers the course as dual credit and there is a credentialed faculty member to teach it for dual credit at the college or high school. It is up to each KCTCS College to determine where and if the dual credit course is offered. KCTCS general education courses will be accepted by any public Kentucky university per Kentucky's General Education Transfer Policy. The General Education Transfer Policy is in place between all public colleges and universities in Kentucky and facilitates a smooth transition as students move from college or university to another institution. Most universities located in contiguous states will also directly accept these courses. More info. can be found here: <https://kctcs.edu/dual-credit/pathways/>

For more information on how courses transfer to specific colleges, visit this link:

https://tes.collegesource.com/publicview/TES_publicview01.aspx?rid={CC20EE6E-2C44-4C28-94BB-79D8B5672E09}&aid={BDDDB62B5-42F0-4F68-B83E-4A6BFBDAC82}

*NOTE: UK will only accept ENG 101 and 102 as english credit if the student also takes COM 181- Basic Public Speaking.

	AA Requirements	AS Requirements	Dual Credit Course Offerings <i>Courses are 3 credit hours unless indicated after the course listing below</i>
Written Communications	6 credit hours	6 credit hours	<ul style="list-style-type: none"> o ENG 101 Writing I o ENG 102 Writing 2
Oral Communications	3 credit hours	3 credit hours	<ul style="list-style-type: none"> o COM 181 Basic Public Speaking OR o COM 252 Intro to Interpersonal Communication
Arts & Humanities <i>1 course each in Humanities and Heritage. (CS) denotes a class meeting the Cultural Studies requirement.</i> <i>Note: most universities and all KCTCS Colleges will not accept more than one civilization/ history course in this block. Any other courses taken will transfer as elective credits and reduce the available elective credits needed by the program of study.</i>	3 credit hours	3 credit hours	<ul style="list-style-type: none"> o HIS 101 World Civilization I (CS) o HIS 102 World Civilization II (CS) o HIS 108 History of the U.S. Through 1865 o HIS 109 History of the U.S. Since 1865 o HIS 240 History of Kentucky
	3 credit hours	3 credit hours	<ul style="list-style-type: none"> o ART 100 Intro to Art o ENG 161 Intro to Literature o HUM 120 Intro to Humanities o MUS 100 Intro to Music o PHI 100 Intro to Philosophy: Knowledge & Reality o REL 101 Intro to Religious Studies o REL 130 Intro to Comparative Religion (CS)** o THA 101 Intro to Theater: Principles & Practices
Natural Sciences <i>One course must include a laboratory experience, indicated by (L) next to the course.</i>	3 - 6 credit hours*	6 credit hours	<ul style="list-style-type: none"> o AST 101 Frontiers of Astronomy o BIO 112 Intro to Biology o BIO 113 Intro to Biology Lab (1) (L) o BIO 120 Human Ecology o BIO 121 Intro to Ecology Lab (1) (L) o BIO 135 Basic Anatomy & Physiology w/Lab (4)(L) OR o BIO 137 Human Anatomy & Physiology I (4) (L) o BIO 139 Human Anatomy & Physiology II (4) (L) o CHE 140 Intro General Chemistry o CHE 145 Intro General Chemistry Lab (1) (L)

			o PHY 171 Applied Physics (4) (L)
Quantitative Reasoning (QR) <i>KCTCS has six QR pathways, each tailored to allow students to take the math that is relevant to their field of study (see table below for listing). Students, with an advisor, should choose from the QR pathway below that best fits their plans for their college education.</i>	3 -6 credit hours*	6 credit hours	o MAT 141 Liberal Arts Mathematics OR MAT 146 Contemporary College Mathematics o MAT 150 College Algebra o MAT/STA 151 Introduction to Applied Statistics o MAT 154 OR 155 Trigonometry (2 or 3 credits) o MAT 161 Statistics and Algebra o MAT 171 Precalculus (5 credits) o MAT 174 OR 175 Calculus I (4 or 5 credits) o MAT 184 OR 185 Calculus II (4 or 5 credits) o STA 220 Statistics
Social and Behavioral Sciences <i>Two disciplines must be represented and different from those in the Arts and Humanities category. (CS) denotes a class meeting the Cultural Studies requirement.</i>	9 credit hours	6 credit hours	o ECO 101 Contemporary Economics Issues OR ECO 201 Principles of Microeconomics o GEO 152 Regional Geography of the World (CS) o POL 101 American Government o PSY 110 General Psychology o REL 101 Intro to Religious Studies (CS) o REL 130 Intro to Comparative Religion (CS)** o SOC 101 Introduction to Sociology
Subtotal General Education Core	33 credit hours		

TECHNICAL EDUCATION COURSES

The courses listed below are offered through KCTCS. Not all courses will be offered every year. These courses qualify for the Work Ready Dual Credit Scholarship.

KCTCS Course Prefix		Course Description	Pathway
ACC	201 and 202	Financial Accounting and Managerial Accounting	Business Administration Systems
ACH	100 and 120	Construction Documents I and Theory & History of Architect I	Architectural Technology
ADX	120/121	Basic Automotive Electricity w/lab	Diesel Technology
ACR	100/101 and 102/103	Refrigeration Fundamentals w/lab and HVAC Electricity w/Lab	Air Conditioning Technology
AHS	105, 109, 115	Intro to Health Occupations, Intro to Body Structure & Func, Medical Terminology	Medical Assisting
AUT	110/111	Brake Systems w/lab	Automotive Technology
BAS	120, 160, 200	Personal Finance, Introduction to Business, Small Business Management	Business Administration
BRX	112, 120, 220	Blueprint Reading Machinist, Basic Blueprint Reading, Blueprint Reading Construction	Industrial Maintenance
BTN	101 and 100	Introduction to Biotechnology and Contextual Science w/Lab	Biotechnology
CAD	100, 120, 102	Intro to Computer Aided Design, Introduction to Architecture, Drafting Fundamentals	Computer Aided Draft and Design
CAR	126/127, 140/141, 190/191, 196/197	Intro to Construction w/lab, Surveying & Foundations w/lab, Light Frame Construction I w/lab, Light Frame Construction II w/lab	Carpentry
CET	150	Civil Engineering Graphics	Civil Engineering Technology
CIT	105, 111, 120, 124, 170	Introduction to Computers, Computer Hardware and Software, Computational Thinking, Introduction to Game Dev, Database Design Fundamentals	Computer & Information Technologies
CMM	110, 112, 114, 134, 138	Fundamentals Machine Tools - A, Fundamentals Machine Tools - B, Fundamentals of Machine Tools, Manual Programming, Intro to Programming & CNC Machines	Machine Tool
CPR	100	CPR Healthcare Professionals	CPR
CRJ	100, 204, 215	Intro to Criminal Justice, Criminal Investigations, Intro To Law Enforcement	Criminal Justice
CS	115, 215	Intro to Computer Programming, Intro to Program	Computer Science

		Design	
CUL	100	Introduction to Culinary Arts	Culinary Arts
DIT	103, 180/181,110/ 111	Preventive Maintenance Lab, Brakes w/lab, Introduction To Diesel Engines w/lab	Diesel Technology
EDP	202	Educational Counseling and Psych	Education
EDU	201	Intro to American Education	Education
EET	154/155	Electrical Construction I w/lab	Electronics Technology
EET	270/217	Electrical Motor controls I w/lab	Industrial Maintenance
ELT	110, 120, 114, 220, 260	Circuits I, Digital I, Circuits II, Digital II	Engineering & Electronics Technology
ELT	260	Robotic and Industrial Automation	Fanuc certificate
EQS	103, 104,110, 200, 125, 130	Racehorse Care, Racehorse Care Lab, Basic Equine Physiology, Lameness in Racehorses, Equine Nutrition, Intro to the Racing Industry	Equine Studies
FLM	112 and 122	Filming: Treatment to Short Screenplay and Filmmaking: Storyboard through Production	Film & Cinematic Arts/Script to Screen
FPX	100/101	Fluid Power w/lab	Industrial Maintenance
FRS	2061	Emergency Medical Technician	EMT/Fire Rescue
HMS	101	Human Services Survey	Human Services
HSE	101	Introduction to Health Sciences	Health Science Education
IET	107, 1302, 203, 205, 206, 1301	Basic Electricity/Electronics, 5S, Programmable Logic Controller, Robot Maintenance, Controls and Instrumentation, SAFETY Culture	Integrated Engineering Technology
IMD	115, 126, 127, 128, 133, 226	Introduction to Graphic Design, Vector Design & Adobe Illustrator,Raster Design with Adobe Photoshop, Beginning Web Design, Advanced Desktop Publishing	Graphic Design
IMD	250 , 255 , 258 , 290	Digital Video Editing, Digital Video Editing II, Visual Effects Video, Photography	Video Editing
IMT	100/101 110/111 150/151	Welding for Maintenance w/lab Industrial Maint Electric Prin w/lab Maintaining Industrial Equipment w/lab	Industrial Maintenance
INF	120 260 282	Elementary Programming Object Oriented Programming I Introduction to Databases	Computer & Information Technologies

MGT	101	Quality Management Principles	Business Administration Systems/Operations Mgr.
NAA	100	Nursing Assistant Skills I	Nursing Assistant Skills
OST	105	Intro to Info Systems	Administrative Office Technology
SWK	124	Intro to Social Services	Human Services/Social Work
THA	126	Fundamentals of Acting	Film & Cinematic Arts/Script to Screen
WLD	100/101 110/111 120/121 130/131 140/141 170/171 220/221 151 152 123 133 143	Oxy-Fuel Systems w/lab Cutting Processes w/lab Shielded Metal Arc Welding w/lab Gas Tungsten Arc Welding w/lab Gas Metal Arc Welding Fillet w/lab Blueprint Reading for Welding w/lab Welding Certification w/Lab Basic Welding A Basic Welding B Shielded Metal Arc Welding Groove with Backing Lab Gas Tungsten Arc Welding Groove Lab Gas Metal Arc Welding Groove Lab	Welding
BRX	210	Mechanical Blueprint Reading	Blueprint Reading
FLM	140	Filmmaking: Lab	Filmmaking
IMT	160	FANUC Robot Operations (Spring 2020)	Industrial Maintenance Technology
OST	100 240	Keyboarding Software Integration	Office Systems Technology
ADX	150/151	Engine Repair w/Lab	Automotive Technology
PHB	100	Phlebotomy	Phlebotomy
EET	270/271	Electrical Motor Controls I	Electronics Technology

Below is a list of popular dual enrollment courses taken by DHS students. Students can take general education courses at any institution, as long as they meet the admissions requirements. The following link shows the schools that have an agreement with BTC for transfer purposes:

<https://kctcs.edu/education-training/transfer/transfer-guides/schools/index.aspx>

BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE

Admissions Requirements: You must meet course requirements.

Courses offered at DHS:

ENG 101 – WRITING I

Focuses on academic writing. Provides instruction in drafting and revising essays that express ideas in Standard English, including reading critically, thinking logically, responding to texts, addressing specific audiences, researching and documenting sources. Includes review of grammar, mechanics and usage, Prerequisite: Reading ACT score of 20 or above, English ACT score of 18 or above, or KCTCS placement exam.

ENG 102 – WRITING II

Emphasizes argumentative writing. Provides further instruction in drafting and systematically revising essays that express ideas in Standard English. Includes continued instruction and practice in reading critically, thinking logically, responding to texts, addressing specific audiences, and researching and documenting credible academic sources. NOTE: Credit is not available by special examination. Prerequisite: ENG 101 or AP Credit for ENG 101

MA 111 -- INTRO TO CONTEMPORARY MATHEMATICS

An introduction to concepts and applications of mathematics, with examples drawn from such areas as voting methods, apportionment, consumer finance, graph theory, tilings, polyhedra, number theory and game theory. This course is not available for credit to persons who have received credit in any mathematics course of a higher number with the exceptions of MA 112, 123, 162, 201, and 202. This course does not serve as a prerequisite for any calculus course. Credit not available on the basis of special examination. Pre-requisites: Two years of high school algebra and a Math ACT score of 19 or above, of MA 108R, or math placement test.

MAT 150 – COLLEGE ALGEBRA

Includes selected topics in algebra and analytic geometry. Develops manipulative skills and concepts required for further study in mathematics. Includes linear, quadratic, polynomial, rational, exponential, logarithmic and piecewise functions; systems of equations; and an introduction to analytic geometry. Pre-requisites: Math ACT score of 22 or above, or KCTCS placement exam.

SPA 101 -- ELEMENTARY SPANISH I

Introduces basic modes of communication in Spanish. Stresses speaking, listening, reading and writing as target skills. Emphasizes everyday language which the students will learn by applying essential grammatical structures to vocabulary. Provides instructional assignments and self-correctional exercises that will be practiced in the classroom. Presents an overview of the culture of various Spanish-speaking countries.

SPA 102 -- ELEMENTARY SPANISH II

Continues to highlight the basic modes of communication in Spanish, to include present and past tense. Stresses speaking, listening, reading and writing as target skills. Emphasizes everyday language which the students will learn by applying essential grammatical structures to vocabulary. Presents an overview of the culture of various Spanish-speaking countries. Prerequisite: SPA 101, or consent of the department and placement test.

EASTERN KENTUCKY UNIVERSITY

Admissions Requirements: 1) you must be a junior/senior in high school; 2) you must have a GPA of 3.0 and; 3) you must have minimum ACT scores of 18 in English, 20 in Reading and a Composite score of 20.

Law, Public Safety, Corrections & Security

CRJ 101 -- INTRODUCTION TO CRIMINAL JUSTICE

A general overview of the criminal justice system including a description of the major agencies: police, prosecution, courts, and corrections, and an analysis of their interdependence in the criminal justice process.

PLS 103 -- POLICE, ORDER MAINTENANCE AND CRIME

Overview of the role of police. The historical development of policing, police functions and bureaucratic organization are examined.

Police misconduct, discretion and effectiveness receive special attention.

COR 201 -- INTRODUCTION TO CORRECTIONS

Introduction to historical, philosophical, and operational frameworks of US corrections. Debates the goals of punishment and explores institutional and community based sentencing options.

PLS 220 -- CRIMINAL INVESTIGATION

Fundamentals of criminal investigation, crime scene search and recording, collection and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up, case preparation and case management.

Information Technology

CSC 160 -- INTRODUCTION TO WEB PROGRAMMING

Prerequisite: MAT 112A/B or higher with a grade of "C" or higher, or a minimum score of 22 on the mathematics portion of the ACT, or a minimum score of 530 on the math portion of the SAT. Introduction to problem solving with computers and the Internet using an appropriate programming language. Basic concepts include data types, objects, control structures, functions, and input/output features.

CSC 170 -- INTRODUCTION TO GAME PROGRAMMING

Prerequisite: MAT 112A/B or higher with a grade of "C" or higher, or a minimum score of 22 on the mathematics portion of the ACT, or a minimum score of 530 on the math portion of the SAT. Introduction to game programming using Python. Programming concepts including data types, input/output, and control structures will be introduced through the construction of various types of 2-D games.

CSC 177 -- INTRODUCTION TO VISUAL BASIC

Prerequisite: MAT 112A/B or higher with a grade of "C" or higher, or a minimum score of 22 on the mathematics portion of the ACT, or a minimum score of 530 on the math portion of the SAT. Introduction to programming in the event driven/graphical programming language Visual Basic. Topics include forms, common controls/objects, coding, procedures, file management and developing Windows applications.

CSC 190 -- OBJECT-ORIENTED PROGRAMMING

Prerequisite: MAT 122 or higher with a grade of "C" or higher or a minimum score of 25 on the mathematics portion of the ACT, or a minimum score of 590 on the mathematics portion of the SAT. Introduction to problem solving with computers using an object-oriented programming language. Concepts include data types, input/output, classes, control structures, and arrays.

UNIVERSITY OF LOUISVILLE

Teaching and Learning Program Admissions Requirements: available to grades 9-12. 2.5 GPA; 17 or higher ACT composite OR 223 or higher MAP Reading; 90% attendance rate; teacher or counselor recommendation; signed student/parent financial agreement.

Courses for the Teaching and Learning Pathway must be taken in the following order. Students should then select a general education course to count as their 4th class in the pathway.

EDTP 201 -- THE TEACHING PROFESSION

Provides opportunities to survey the field of education through the study of educational theories, field experiences, and evaluation of education as a career. Some fieldwork required during class hours.

EDTP 215 -- FOUNDATIONS OF INSTRUCTION

This course introduces pre-service teachers to the planning and preparation skills needed to be an effective classroom teacher. These skills include: identifying learning goals and objectives based upon standards-based curriculum; designing learning experiences with developmentally appropriate instructional strategies; creating a variety of assessments to gauge learning and motivate students to learn; managing a range of students, materials, and classroom activities to honor students' diversity.

EDTP 107 -- HUMAN DEVELOPMENT AND LEARNING

Introduction to the basic principles of human development and learning as applied to home and school settings of children from birth to adolescence.

POLICY STATEMENTS

ALTERNATIVE CREDIT OPTIONS

1. To be eligible to receive high school credit, a student in grades 7 or 8 **must** earn a grade of B or better in a high school equivalent course.
2. Middle school courses that have been determined as equivalent high school courses are: **Algebra I, Spanish I, and Spanish II.**
3. A student who has completed a high school equivalency course in grade 7 or 8 may repeat the course in high school under the following conditions: a.) the final grade obtained during the repeat course will be the grade of record on the high school transcript and used in the calculation of the grade point average (GPA) b.) only one high school credit may be earned for each course and c.) if the middle school grade was below a B average.
4. If a student who transfers to the middle school or high school has already been awarded high school credit from another district, the credit(s) will count toward fulfilling the graduation requirements. If the credit has not already been awarded by the sending district – the Danville Schools will not award credit.
5. A grade of B or above earned by students who choose to participate in these courses shall be transferred to the high school, will be included in the **calculation of a student's high school grade point average (GPA), class rank, and become part of the student's official high school transcript.**
6. All alternative credit options must be submitted in a written proposal and approved by the principal before coursework begins if credit is to be awarded by the high school.
 - All alternative credit options will be non-weighted
 - College courses are weighted like an honors class
 - Final grades must be submitted directly to the high school counselor to be included on the transcript

COLLEGE VISITS

Students need to complete an *Educational Enhancement Opportunity Form* from the guidance office and return to the principal at least five (5) days prior to the absence. Juniors and seniors are advised to use the school calendar to plan visits that coincide with school breaks. Documentation with the student's name must be provided for absence to be counted as excused.

FRACTIONAL CREDIT

Fractional credit shall not be granted for full-year courses.

GRADUATION EXERCISE

Students shall not be permitted to take part in graduation exercises until **all specified graduation requirements** have been fulfilled, as determined by the Danville Board of Education.

GRADUATION HONORS / CLASS RANK

Class rank is determined by using all weighted grades in high school courses. This will include online courses, performance-based credits, college courses, correspondence courses, and eligible high school courses taken in middle school.

Honors rankings will be determined by using **weighted grade point averages.**

Highest Honors: 3.75 – 5.00

Higher Honors: 3.50 – 3.74

High Honors: 3.25 – 3.49

INDEPENDENT STUDY

Independent study courses may be taken only with **approval from the principal**. All independent study contracts must be **approved at the time of scheduling**. The Independent Study contract form must be completed and include a written syllabus, curriculum, timeline for completion, and criteria for assessment. Forms for independent study contracts may be picked up in the guidance office including a signed **Release and Indemnification Form** that must be signed by a parent/guardian for any student who will be leaving the DHS campus during their independent study.

INDIVIDUAL LEARNING PLAN

Prior to entering high school, students will develop an Individual Learning Plan (ILP). This is a four-year curricular plan that emphasizes career development and sets learning goals for students based on academic and career interests. Components include personal information, educational history, educational plan, career goals, work experience, interests and hobbies, school and community activities, leadership positions, and honors, awards and recognitions. Results of KPREP, ACT, SAT, EOC, and other assessments may be included. The ILP may change as students' progress and their goals change.

PROMOTION

Students are promoted at the end of the academic year. Grade level does not change at the semester break.

SCHEDULE CHANGES

DHS is unique in that each school year, the master schedule changes based on student course requests. The student driven master schedule is different each year to avoid possible student request conflicts. **When students change their minds after the schedule has been set for the year, this creates problems including class size imbalances, class conflicts, closed classes due to maximum number of students and limited alternative classes. Schedules to be available in Infinite Campus prior to August.** Schedule changes will not be made for teacher preference. (An exception is that students may choose to repeat a failed course with a different teacher when available).

After school starts, a student may request a change within the first 5 school days, and must have:

1. A valid reason before a schedule change will be considered
2. Teacher permission to enter the class
3. Permission from both a principal and a counselor

Students may not change any classes after the first 9 school days. For the 2021-2022 school year, with the current calendar, that date is September 3rd, 2021.

TRANSFER OF CREDITS

Credits transferring from an accredited school will be reflected on the student's transcript in calculating class rank, grade point average, graduation requirements, and grade placement. Transferring students may be required to demonstrate proficiency in course material before credit is applied toward graduation requirements.

WEIGHTED PROGRAM

- The purpose of the weighted program is to provide equity in determining class ranks. More value is given to those courses deemed more difficult. There are three levels of difficulty: basic, honors, and advanced placement.
- The weighted program is used for class ranking purposes only.
- The grade of "P" receives no weight.
- GPA's are computed at the end of the year.
- **Grades for alternative credits will be calculated in non-weighted form for class rank and GPA and will be included on the student's transcript.**

Kentucky Education Excellence Scholarship (KEES)

GPA	Amount	ACT Score	Bonus	
2.50	\$125	15	\$36	<p>You qualify if you earn a 2.5 unweighted GPA or better at the end of the high school year. You can also earn a bonus award between \$36 and \$500 if you have a composite score of at least a 15 on the ACT or 710 on the SAT. After each year of high school, the Kentucky Higher Education Assistance Authority (KHEAA) will notify you if you have earned a KEES award. Visit www.kheaa.com for more information or call Kentucky Higher Assistance Authority at 1-800-928-8926.</p>
2.60	\$150	16	\$71	
2.70	\$175	17	\$107	
2.75	\$187	18	\$143	
2.80	\$200	19	\$179	
2.90	\$225	20	\$214	
3.00	\$250	21	\$250	
3.10	\$275	22	\$286	
3.20	\$300	23	\$321	
3.25	\$312	24	\$357	
3.30	\$325	25	\$393	
3.40	\$350	26	\$428	
3.50	\$375	27	\$464	
3.60	\$400	28+	\$500	
3.70	\$425			
3.75	\$437			
3.80	\$450			
3.90	\$475			
4.00	\$500			

If you have been eligible for free or reduced-price lunch during any year of high school, you can earn a supplemental award if you have received a qualifying score on an Advanced Placement (AP) exam.

Exam Score	Supplemental Amount
3	\$200
4	\$250
5	\$300

ACT

Projected 21-22 Test Dates		Fees
September 11, 2021	<p>Register online @ www.act.org</p> <p>DHS ACT code: 180645 DHS ACT TEST SITE code: 176420</p>	ACT Basic Fee: \$55.00
October 23, 2021		ACT plus Writing Test: \$70
December 11, 2021		Test Option Change: \$15
February 5, 2022		Late Registration: \$35
April 9, 2022		Test Date/Center Change: \$35
June 11, 2022		Stand By Testing: \$56
July 16, 2022		Additional Score Reports: \$13

Students on free or reduced lunch may receive four fee waivers for the ACT Basic Fee. Only applicable for juniors and seniors.

FOUR YEAR ACADEMIC PLAN

Student Name: _____

Grade: _____

Credits Earned at JWBMS:
1.
2.

Career Readiness
Pathway:
9th Gr Course:
10th Gr Course:
11th Gr Course:
12th Gr Course:

9th Grade:
English:
Math:
Science:
Social Studies:
Health/PE OR Arts and Humanities:
Elective:

11th Grade:
English:
Math:
Science:
Social Studies:
Elective:
Elective:

10th Grade:
English:
Math:
Science:
Social Studies:
Health/PE OR Arts and Humanities: <i>Note: if you took health/PE freshman year, this needs to be an art course, and vice versa.</i>
Elective:

12th Grade:
English:
Math:
Elective:
Elective:
Elective:
Elective: