

ANDERSON COUNTY HIGH SCHOOL



CLASS OFFERINGS

for

2019-2020

ACHS GRADUATION REQUIREMENTS (Classes of 2020 and 2021)

Students must complete the following minimum number of credits and all other state and local requirements in order to graduate from high school in the District:

General Education Curriculum/ Graduation Requirements

English:	4 credits: English I, English II, English III, English IV
Math:	4.5 Credits to include Algebra I, Algebra II and Geometry (math every year)
Science:	3 Credits to include Integrated/Physical Science, Chemistry, and Biology
Social Studies:	3 credits: Integrated World Studies, Government, U.S. History, &
Health/PE:	1 credit
Humanities:	1 credit
Electives:	9.5 credits

Total of 26 credits

*Students shall meet Transition Readiness requirements to graduate. All students shall complete three credits in a Career Technical Education pathway OR complete 2 Advanced Placement classes OR complete 2 Dual Credit classes.

** 100% completion of ILP each year

Promotion requirements are as follows:

18.5 credits to be a senior

12.5 credits to be a junior

6.5 credits to be a sophomore

PRE-COLLEGE CURRICULUM

The following courses are required for students to enroll in a four-year degree program at a Kentucky public university:

English:	4 credits: English I, English II, English III, English IV
Math:	4.5 credits: Algebra I, Algebra II and Geometry (math every year)
Science:	3 Credits to include Integrated/Physical Science, Chemistry, and Biology
Social Studies:	3 credits: Integrated World Studies, Government, U.S. History, &
Economics	
Health/PE:	1 credit
Humanities:	1 credit
Foreign Language:	2 credits of the same foreign language
Electives:	7.5 credits

*Students shall meet Transition Readiness requirements to graduate. All students shall complete three credits in a Career Technical Education pathway OR complete 2 Advanced Placement classes OR complete 2 Dual Credit classes.

** 100% completion of ILP each year

Kentucky Scholars Certificate

*All ACHS students must complete 26 credits to be eligible for graduation. Kentucky Scholars Certificates will be awarded to students who complete the following course of study. No yearly grades below a “C will be accepted toward credit and a student must have at least a final 2.5 grade point average.

English – 4 Credits - English I, English II, English III, and English IV

Social Studies – 4 Credits – Geography, U.S. History, Government, & Economics (required), and one approved upper level class, AP, or BCTC Social Studies class

Mathematics – 4.5 credits – Algebra I, Geometry, Algebra II, Pre-Calculus or one approved upper level, AP, or BCTC Mathematics class

Science – 4 credits – Biology, Chemistry, Integrated, Physical Science, and one approved upper level class, AP class or BCTC Science class

Health & PE – 1 credit

Foreign Language – 2 Credits of the same foreign language

Humanities - 1 credit

Electives – 5.5 credits

*Students shall meet Transition Readiness requirements to graduate. All students shall complete three credits in a Career Technical Education pathway OR complete 2 Advanced Placement classes OR complete 2 Dual Credit classes.

** 100% completion of ILP each year

Advanced Kentucky Scholars Certificate requirements:

*All ACHS students must complete 26 credits to be eligible for graduation. Advanced Kentucky Scholars Certificates will be awarded to students who complete the following course of study. No yearly grades below a “C will be accepted toward credit and a student must have at least a final 2.5 grade point average. In addition to the listed course of study, students must take 4 A.P. courses: English, Science OR Math, and 2 additional AP courses.

English – 4 Credits- English I, English II, English III, and English IV

Social Studies – 4 Credits – Geography, U.S. History, Government, & Economics (required), and one approved upper level class, AP, or BCTC Social Studies class

Mathematics – 4.5 credits – Algebra I, Geometry, Algebra II, Pre-Calculus or one approved upper level, AP, or BCTC Mathematics class

Science – 4 credits – Biology, Chemistry, Integrated Science, Physical Science, and one approved upper level class, AP class or BCTC Science class

Health & PE – 1 credit

Foreign Language – 2 Credits of the same foreign language

Humanities- 1 credit

Electives – 5.5 credits

*Students shall meet Transition Readiness requirements to graduate. All students shall complete three credits in a Career Technical Education pathway OR complete 2 Advanced Placement classes OR complete 2 Dual Credit classes.

** 100% completion of ILP each year

Beginning with the Class of 2022, the following credits must be obtained:

Course Area	Credits	<p align="center">Courses:</p> <p>(A + B = Year-long = 1 credit) (PBS = Performance-Based Semester = 1 credit) (CUS = Carnegie Unit Semester = .5 credit)</p>
English - every year	4	English I A & B English II A & B English III A & B English IV (PBS)
Math - every year	4	Algebra I A & B OR Accelerated A & B course Geometry OR Accelerated A & B course Algebra II A & B OR Technical Mathematics A & B OR Accelerated A & B course Personal Finance (PBS) OR Intro to College Math (PBS) OR Accelerated A & B course
Science	3	Physical Science (CUS) + Integrated Science (CUS) Chemistry A & B Biology A & B
Social Studies every year	3	Integrated World Studies A & B Government (CUS) US History A & B Economics (CUS)
Arts & Humanities	1	Humanities (PBS) OR Any performance-based Art, Music, or Drama semester class.
Health/PE	1	Wellness (PBS)
Electives	10	Varies depending on course selection and diploma track.
Digital & Financial Literacy		Completion of ILP; completion of course including Financial Literacy standards (Money Skills OR Personal Finance)
Civics Test	10-12	Passing score of 60% or higher
Transition Readiness		Meeting state accountability criteria for Academic OR Career Readiness. All students must complete three credits in an approved Career Technical Education Pathway OR complete two AP courses OR complete two Dual Credit courses. (704 KAR 003:305, Sect. 2.8)
26 TOTAL CREDITS		

Graduation Qualifiers - Beginning with the class of 2023

Students entering high school in 2019-2020 school year must complete one of eight Graduation Qualifiers:

1. Precollege curriculum as established by the Council of Postsecondary Education in 13 KAR 2:020; OR
2. Benchmark score in one section of a college admissions or placement examination as established by the Council on Postsecondary Education in 13 KAR 2:020; OR
3. Three postsecondary credit hours or more of a Kentucky Department of Education approved dual credit course with a grade of C or higher; OR
4. One course and corresponding assessment meeting the following criteria:
 - Advanced Placement (AP) with a score of three or higher; or
 - Cambridge Advanced International (CAI) with a score at or above benchmark; or
 - International baccalaureate (IB) with a score of five or higher; or
5. Industry certification as approved by the Kentucky Workforce Innovation Board; OR
6. Four credits from valid courses within a single KDE-approved career pathway; OR
7. Complete 2 years of a KDE approved or Kentucky Labor Cabinet approved Pre-apprenticeship or apprenticeship; OR
8. 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.

Graduation Prerequisites - Beginning with the class of 2024

Students entering high school in the year 2020-2021 school year must demonstrate basic competency in reading and math in one of three ways before graduation.

1. The students 10th grade state-required assessments meeting the minimum criteria in reading and mathematics, OR
2. The students 8th grade state-required assessment rating of proficient or higher or reading or mathematics or both reading and mathematics, if applicable; OR
3. A student collection of evidence to include the following:
 - a. The student's ILP that includes student transcript;
 - b. If applicable, the student's IEP, that includes evidence that the student has received specifically designed instruction and related services in reading and mathematics;
 - c. Performance on the required state assessments;
 - d. Appropriate interventions, targeted to the student's needs, provided to the student to ensure support was provided toward meeting the requirements outlined in this administrative regulation;
 - e. Student work demonstrating the students' competency in reading and/or mathematics, as applicable; and
 - f. The student's postsecondary plan.

Schedule Change Policy:

Once students have developed a schedule or have chosen appropriate classes through the scheduling process, there will be NO schedule changes except for the following reasons: a student failed a class and needs to repeat that class; a class is missing but necessary for graduation (seniors only), and a student is currently scheduled for a class for which credit was previously received. Once school has begun the only schedule change that will be considered will be counselor or administrator initiated after teacher consultation.

Office Aides:

1. Only senior students shall be allowed to be office aides. Students shall receive no more than one credit as an aide. Students shall not drop a class to become an aide. There shall be no exceptions to this policy.
2. In order to qualify as an aide, a senior must be approved and be in compliance with all SBDM policies.

Advanced Placement and Dual Credit Policy:

All students have the right to participate in a rigorous and academically challenging curriculum. (KRS 160.348)

Any student who is willing to accept the challenge of a rigorous academic curriculum and have met pertinent prerequisite content knowledge shall be admitted to Advanced Placement courses.

Dual credit exists when both a high school and a college/university award credit to a high school student for the same course. Dual credit is restricted to high school juniors and seniors, who meet the following criteria:

- Meet required ACT, SAT, and/or college placement exam scores, as well as any prerequisite, in order to enroll by August 1st of each school year.
- Sign the appropriate parent/student/school dual credit contract.
- Have Principal or designee approval.

Juniors and seniors who qualify for dual credit may leave school to take a college class to count as dual credit and/or participate in on-campus dual credit options.

In order to appear on student's high school transcript and count for dual credit, classes must fit within the limits of a student's high school schedule. Approved dual credit classes shall count for high school content equivalent graduation requirements or as electives toward graduation.

It is the responsibility of the students who enroll in dual credit coursework to obtain official transcript and check with their choice of post-secondary institution to ensure dual credits will be accepted. Any expenses, tuition, books, etc. shall be the responsibility of the student.

Both AP and dual credit classes will function on the semester as one full credit performance-based courses, i.e. HIS 109 is one semester performance-based credit. AP US History A is one semester performance-based credit. AP US History B is an additional one semester performance-based credit.

Students passing an AP or dual credit course will receive a weighted 1 quality point on their final grade. (11 KAR 15:090)

Transition Readiness/ Senior Assessment Policy:

All Anderson County High School seniors are expected to be Transition Ready when they graduate. As part of the ACHS Transition Readiness plan, seniors must have met their academic or career readiness benchmarks as outlined by the Kentucky Department of Education and earned an apprentice level or above on all of their junior year accountability testing (no NOVICE scores) to be enrolled and participate in three specialized senior programs: office aide, independent study, and Work-Based Learning programs.

Accountability Testing: College entrance exam, On-Demand writing, and/or any End of Course or content-specific accountability assessments.

1. Before each semester begins, the Assistant Principal for Curriculum and counselors will check test scores for all office aides, independent study students, and Work-Based Learning students to determine if they meet the policy requirements.
2. If scores are not available at the beginning of the semester, then within ten working days of the receipt of the scores, the Principal or designee shall notify the parent of the necessary schedule change.
3. Students who become transition ready throughout their senior year will be considered for these positions as space becomes available.

Incentives Policy:

Updates will be determined as new state accountability regulations are officially approved and disseminated. Check the ACHS Website for updated SBDM policies.

Graduation Honors Policy:

ACHS will recognize honors students at graduation, using the following distinction.

- 4.0 and above – Summa Cum Laude
- 3.75 – 3.99 – Magna Cum Laude
- 3.5 – 3.74 – Cum Laude

All honors graduates will wear a red and blue honors cord during the graduation ceremony.

Beginning with the Class of 2018, rather than having a Valedictorian and Salutatorian, ACHS will recognize the top ten percent of its senior class as “Distinguished Bearcats”. These students will wear a special mortar board, lead the graduation procession, and elect a student speaker from this group to provide a senior address at the graduation ceremony.

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English

All students must take English every year of high school and earn 4 credits. If a student does not meet the college readiness benchmarks for English or reading as established by the Council on Postsecondary Education in 13 KAR 2:020, the student shall take a transitional course or intervention, which is monitored to address remediation needs, before exiting high school.

Required Courses by grade level:

FRESHMEN

English I A & B (110 & 111)

Grade Level: 9

Credit: 1

Two Semesters

OR

Pre-AP English I A & B (115 & 116)

Grade Level: 9

Credit: 1

Two Semesters

Description: This class will help prepare students to take AP ENG III (Advanced Placement Language and Composition) and/or AP ENG IV (Advanced Placement Literature).

SOPHOMORES

English II A & B (120 & 121)

Grade Level: 10

Credit: 1

Prerequisite: Freshman English credit

Two Semesters

OR

Pre-AP English II A & B (125 & 126)

Grade Level: 10

Credit: 1

Two Semesters

Description: This class will help prepare students to take AP ENG III (Advanced Placement Language and Composition) and/or AP ENG IV (Advanced Placement Literature).

JUNIORS

English III A & B (130 & 131)

Grade Level: 11

Credit: 1

Prerequisites: Freshman and Sophomore English credits

Two Semesters

OR

AP English III: Advanced Placement Language and Composition A & B (132 & 133)

Grade Level: 11

Credit: 2

Prerequisites: Freshman and Sophomore English credits

Two Semesters

OR

ENG 101 (800)

Grade Level: 11 or 12

Credit: 1 and 3 college credit hours

Prerequisites: Must meet criteria outlined in aforementioned Dual Credit Policy.

SENIORS

English IV (140)

Grade Level: 12

Credit: 1

Prerequisites: Freshman, Sophomore, and Junior English credits

One Semester

OR

AP English IV: Advanced Placement Literature and Composition A & B (144 & 145)

Grade Level: 12

Credit: 2

Prerequisites: Freshman, Sophomore, and Junior English credits

Two Semesters

OR

ENG 102 (801)

Grade Level: 12

Credit: 1 ACHS and 3 college credit hours

Prerequisites: ENG 101 and met criteria outlined in aforementioned Dual Credit Policy.

ELECTIVE ENGLISH COURSES

Creative Writing (151)

Grade Level: 9-12

Credit: 1

One Semester

This course is designed for those students with a serious interest in expressive writing such as poetry, plays, scripts, short stories, personal narratives, personal essays, and memoirs. Works of modern fiction, including multi-cultural authors, women authors, and Southern authors, will be incorporated into the class as models. Students will also be encouraged to submit work for publication and competition.

Philosophy (162)

Grade level: 10-12

Credit: 1

One Semester

This is a survey of Western philosophy, from Socrates to Derrida, from epistemology to existentialism. Specific areas of study will be determined by student interest. Students will be expected to engage in reading samples of original philosophical works, participate in class discussions centered on those works, and write brief essays answering philosophical questions posed in class.

Debate /Public Speaking (163)

Grades 9-12

Credit: 1

One Semester

This course prepares students to become more confident speakers and to explore basic types of formal and informal debate including, but not limited to: cross-x (team debate), Lincoln-Douglas (one-on-one debate), and both U.S. and foreign extemporaneous speaking. We also cover the elementary principles of group discussion and student congress. While the course will use several texts as a basic foundation for learning the fundamental elements of debate, research, argument composition, and hands on debate matches and discussions will comprise most of the class time.

The Holocaust in Literature and Film (164)

Grades: 10-12

Credit: 1

One Semester

In this course, we will examine those memories as they are represented in stories and memoirs, documentary/testimony/historical drama films, and poetry from witnesses and second-generation survivors of the Holocaust. Through an analysis of Holocaust literature and film, we will investigate the connections between history, trauma, witnessing, and representation. How do authors, filmmakers, and artists depict events that shatter traditional forms of perception and comprehension? Theme exploration will include fear of the cheapening of pain, the meaning of human identity and community, and the possibilities of transformation and healing.

Journalism (165)

Grades: 10-12

Credit: 1

One Semester

In this course, students will learn the basics of journalistic writing, including but not limited to reporting, photography, editing, and publishing. Students will analyze, evaluate, and create different forms of expression within the area of journalism. As part of the requirements, students will produce school-wide publication of written work.

Film Studies (166)

Grades: 9-12

Credit: 1

One Semester

This course will focus on the elements of film including mise-en-scene, cinematography, editing, and genre. This will allow students to approach movies with a critical eye and view them through the lens of literature, art, and culture. Course assignments include film screenings, written analysis, and a culminating short film production that would require each of the elements of film be incorporated into the final product.

Post-Apocalyptic Literature (167)

Grades: 9-12

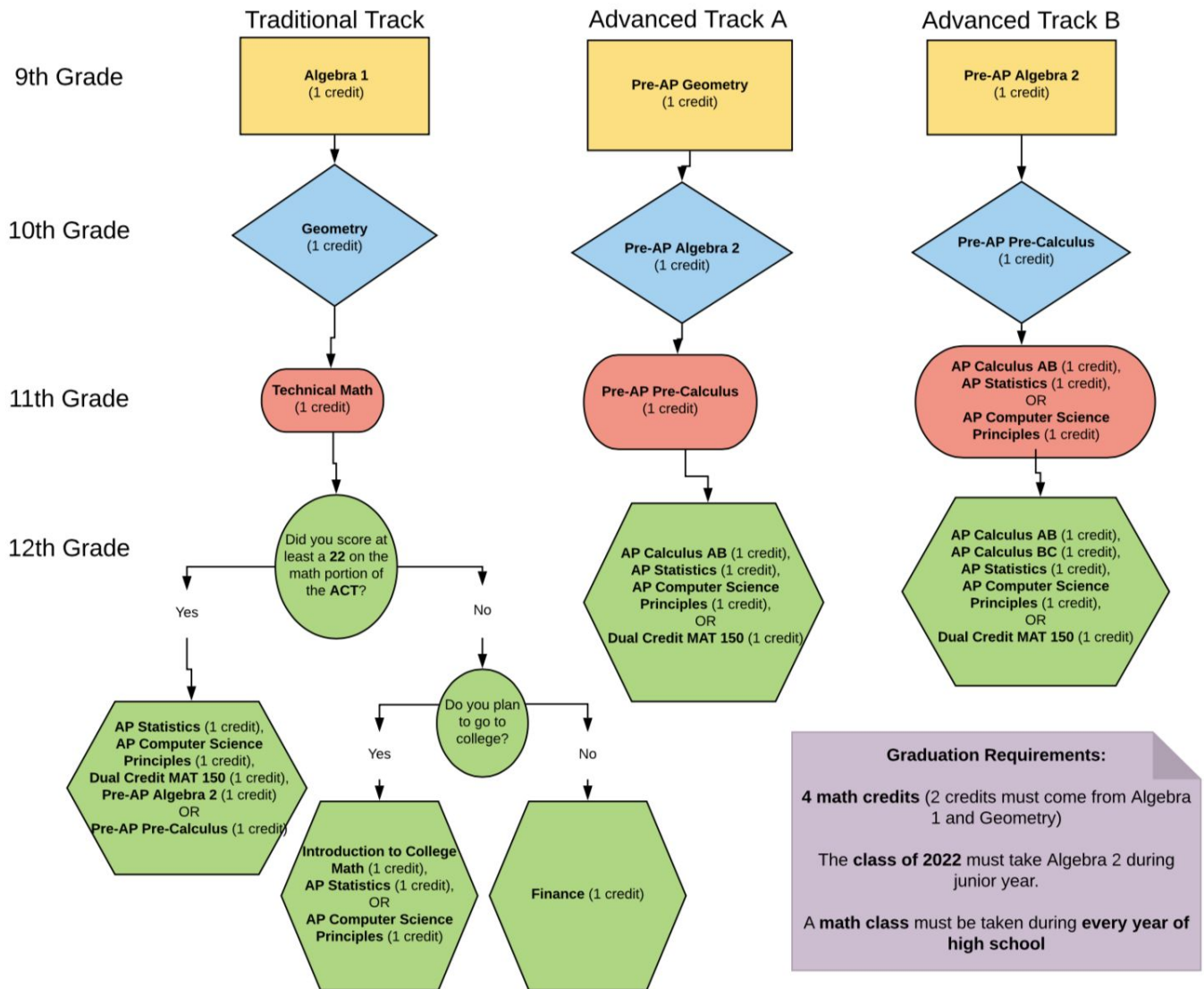
Credit: 1

One Semester

Twenty-first century anxieties about environmental disasters; food, water, and energy shortages; pandemics and biological warfare; impact events; cyber attacks; financial meltdowns; and scientific experiments gone wrong have spawned an unquestionable interest in the post-apocalyptic industry. Through the reading and study of literature in the same vein as *Divergent* and *The Hunger Games*, this course will explore several questions, including how our world will be destroyed, how survivors will reconstruct society, and what all this says about human nature, our values, and the role of power.

Mathematics

***All students must be enrolled in a math class every year of their high school career. If a student does not meet the college readiness benchmarks for Mathematics as established by the Council on Postsecondary Education in 13 KAR 2:020, the student shall take a transitional course or intervention, which is monitored to address remediation needs, before exiting high school.



Suggested Pacing for regular math courses:

9th grade: Algebra 1

10th grade: Geometry

11th grade: Technical Math or Algebra 2 for College-bound students (Begins with class of 2022.)

12th grade: Math elective (Introduction to College Math, MAT 150, AP Statistics, AP Computer Science Principles, Pre-AP Pre-Calculus, or Finance)

Algebra 1 A and B (210 & 211)

Grade Level: 9

Credit: 1

Prerequisite: none

Two semesters

Geometry A and B (222 & 223)

Grade Level: 10

Credit: 1

Prerequisite: Algebra 1

Two semesters

Technical Math (220 & 221)

Grade Level: 11

Credit: 1

Prerequisite: Algebra 1 and Geometry

Two semesters

Will not begin until Class of 2022 becomes juniors.

Algebra 2 A and B (230 & 231)

Grade Level: 11

Credit: 1

Prerequisite: Algebra 1

Two semesters

Introduction to College Math (239)

Grade Level: 12

Credit: 1

Prerequisite: Technical Math or Algebra 2

One Semester

Description: Introduction to College Math is a class designed to prepare students for college algebra.

Topics to be covered include linear functions, polynomials, systems of equations, exponential and logarithms, and basics of trigonometry.

Finance (236)

Grade Level: 12

Credit: 1

One semester

Description: This course is designed to provide students with math concepts needed in developing sound money management skills which will help to improve the quality of life for individuals and their families.

Components of math, decision making and problem solving skills, goal setting and technology will be integral components of the course. *Will meet the financial literacy graduation requirement when instituted.*

MAT 150 (805)

Grade Level: 12

Credit: 1 ACHS and 3 college credit hours

Prerequisite: Criteria outlined in aforementioned Dual Credit policy.

1 semester

Description: MAT 150 is a dual credit option through Bluegrass Community and Technical College; only seniors who have scored a 22 or higher in math on their ACT or an equivalent test accepted by BCTC. Eligible students must be approved through the Early College guidelines established by the Dual Credit policy and students who are approved must pay the required BCTC tuition, fees, and textbook costs. For more information, please consult with Mrs. Wells. Topics include linear, quadratic, polynomial, rational, exponential, logarithmic, and piecewise functions; systems of equations; and an introduction to analytical geometry.

Pacing for Advanced Math A track:

9th grade: Pre-AP Geometry

10th grade: Pre-AP Algebra 2

11th grade: Pre-AP Pre-Calculus and/or AP Statistics and/or AP Computer Science Principles

12th grade: AP Calculus and/or AP Statistics and/or AP Computer Science Principles and/or MAT 150

Pacing for Advanced Math B track:

9th grade: Pre-AP Algebra 2

10th grade: Pre-AP Pre-Calculus and/or AP Statistics and/or AP Computer Science Principles

11th grade: AP Calculus AB and/or AP Statistics and/or AP Computer Science Principles

12th grade: AP Calculus AB and/or AP Calculus BC and/or AP Statistics and/or AP Computer Science Principles and/or MAT 150

Pre-AP Geometry A and B (214 & 215)

Grade Level: 9

Credit: 1

Prerequisite: Eighth grade Alg. 1 + passing score on placement exam

Two semesters

Pre-AP Algebra 2 A and B (232 & 233)

Grade Level: 10

Credit: 1

Prerequisite: Algebra 1

Two semesters

Pre-AP Pre-Calculus A and B (234 & 235)

Grade Level: 11

Credit: 1

Prerequisite: Pre-AP Algebra 2

Two semesters

Description: Honors Pre-Calculus includes an analysis of linear, polynomial, rational, exponential, logarithmic, and trigonometric functions and their graphs. Analysis skills are stressed in preparation for AP

Calculus.

Advanced Placement (AP) Math

AP Statistics A and B (242 & 243)

Grade Level: 11 or 12

Credit: 2

Prerequisite: Algebra 2

2 semesters

Description: AP Statistics is a college level statistics class. Exploring Data, Sampling and Experimentation, Anticipating Patterns, and Statistical Inference will be the four main themes covered. Students will be in this class three trimesters where they will work toward taking the AP test. An introductory statistics course, similar to AP Statistics, is typically required for college majors such as social sciences, health sciences, and business.

AP Computer Science Principles A & B (251 & 252)

Grade Level: 10, 11, or 12

Credit: 2

Prerequisite: Algebra 1

2 semesters

Description: AP Computer Science Principles (AP CSP) helps students understand how computing and technology influence the world. As part of this course, students will create digital products, such as videos and mobile apps, to address real world issues in the same way that writers, programmers, engineers, and designers would. AP CSP can prepare students for success not only in computer science majors and careers but also in other fields and interests. Students don't need to know coding or have computer science experience to be successful in a AP CSP.

AP Calculus 1 AB (245 & 246)

Grade Level: 11 or 12

Credit: 2

Prerequisite: Pre-AP Algebra 2 and Pre-AP Pre-Calculus

2 Semesters

Description: Topics to be covered include the limits and continuity of functions, the derivative and its applications, indefinite integrals, and summation notation, definite integral, applications of the integral and inverse trigonometric functions.

AP Calculus 2 BC (248 & 249)

Grade Level: 12

Credit: 2

Prerequisite: AP Calculus AB

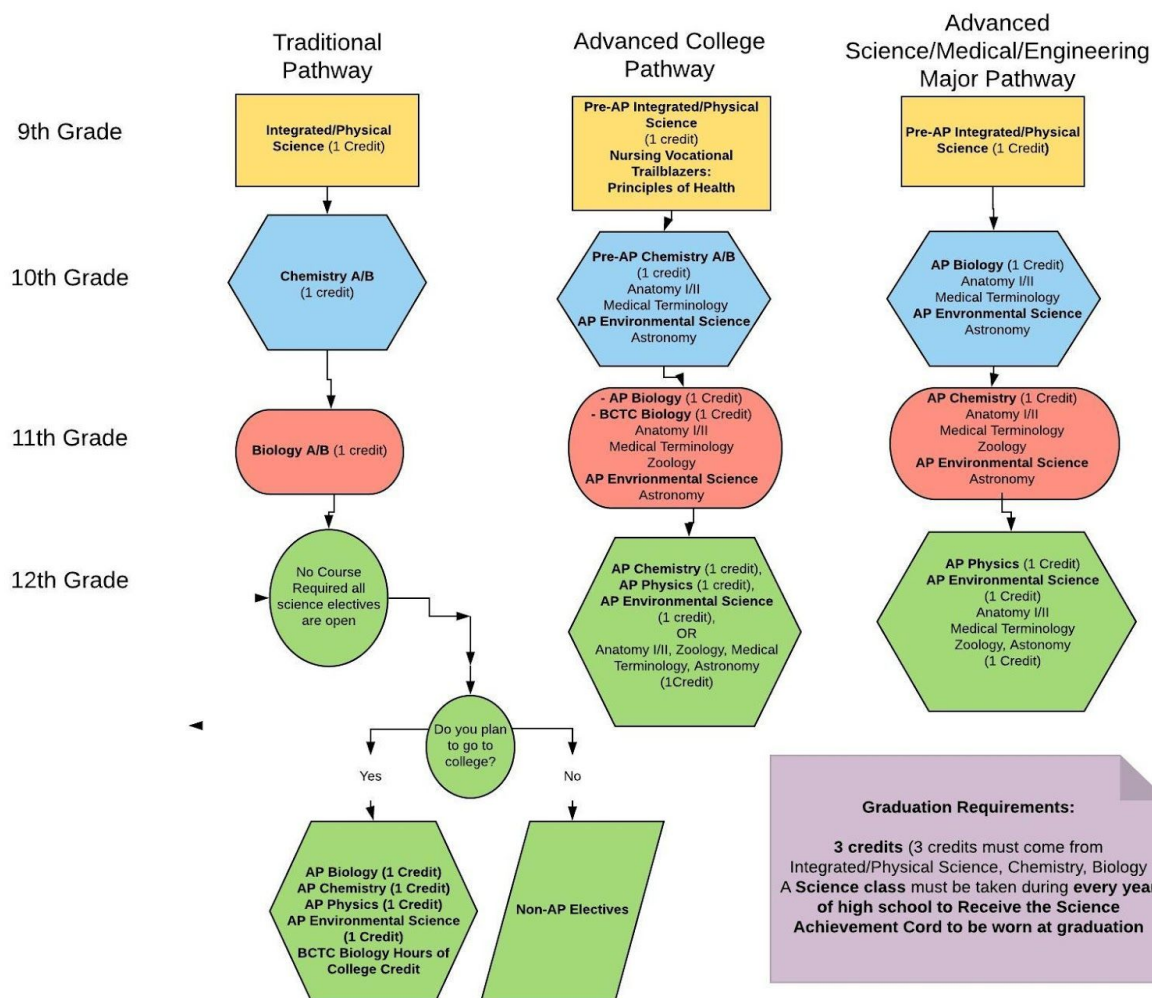
2 Semesters

Description: AP Calculus BC a second AP Calculus course for students who have successfully completed AP Calculus AB.

Science

Science Graduation Requirements

- 9th Integrated Science (330) and Physical Science (331)
OR
Pre-AP Integrated Science(332) and Pre-AP Physical Science (333)
- 10th Chemistry A (320) and Chemistry B (321)
OR
Pre-AP Chemistry (322) and Pre-AP Chemistry (323)
- 11th Biology A (310) and Biology B (311)
OR
AP Biology A and B (350 & 351)
OR
BIO 112 and 113 (804 & 804.1)



Advanced Placement Science Course Offerings:

AP Biology A & B with Lab (350 & 351)

Grade Level: 10, 11 or 12

Prerequisite: C or better in required science courses

Credit: 2

2 Semesters

Description: This course is designed to be equal in content and demand to a college course for students interested in Science as a career. If you are interested in a life science major such as Pre-Med, Pre-Vet, Pre-Dentistry, Pre-Pharmacy, or Nursing this is AP Class is a must.

AP Chemistry A & B with Lab (353 & 354)

Grade Level: 11 or 12

Prerequisite: C or better in required science courses

Credit: 2

2 Semesters

Description: This course is designed to be equal in content and demand to a college introductory chemistry

course. It aims to provide students not only with core content of chemical science, but also with the conceptual frameworks, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing field of chemistry.

AP Environmental Science A & B (356 & 357)

Grade Level: 10, 11, 12

Prerequisite: C or better in required science courses

Credit: 2

Two Semesters

Description: The goal of AP Environmental Science course 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 human and man-made, to evaluate the relative risks associated with these problems, and to examine solutions for resolving or preventing them.

AP Physics 1 A & B (359 & 360)

Grade Level: 11, 12

Credit: 2

2 Semesters

Prerequisite: at least a 'B' in Algebra 2 or recommendation from math teacher.

AP Physics 1 is a college freshman level, algebra-based course in classical physics. Topics of inquiry include classical mechanics and introductory electrical circuits. The course is fast-paced and the content is rigorous. As such regular attendance is strongly encouraged. Much of the learning occurs through problem solving. Students have the opportunity to earn college credit in freshman physics through the AP Exam.

AP Physics 2 A & B (371 & 372)

Grade Level: 12

Credit: 2

2 Semesters

Pre-requisites: at least a 'B' in Algebra 2 or recommendation from math teacher, and at least a 'C' in AP Physics 1.

AP Physics 2 is a college freshman level, algebra-based course blending elements of classical physics and introductory level modern physics. Topics of inquiry include fluids, thermodynamics, electrical forces and fields, magnetic forces and fields, induction, physical and geometric optics, atomic and nuclear physics, and introductory quantum physics. Students have the opportunity to earn college credit through the AP Exam.

Dual Credit Course Offering:

BIO 112 (804) For non-science majors

Grade Level: 11 or 12

Credit: 1 ACHS and 3 college credit hours

Prerequisites: Meet criteria outlined in aforementioned Dual Credit Policy.

BIO 113 - lab (804.1) For non-science majors

Grade Level: 11 or 12

Credit: .5 ACHS and 1 college credit hour

Prerequisites: During BIO 112 and meet criteria outlined in aforementioned Dual Credit Policy.

Non-AP Science Electives:

Anatomy & Physiology I: (362) Required for Trailblazer Students

Grade Level: 10, 11, 12

Prerequisite: C or better in all required science courses OR recommendation of science department

One Semester

Credit: 1

Description: Anatomy & Physiology is recommended for any student that may be interested in the health science industry. This course involves an in-depth study of human anatomy and physiology as it relates to the following body systems: Tissues, Skin, Bones, and Muscular. Students engage in a variety of laboratory, lecture and discussion activities to explore the human body and its functions.

Anatomy & Physiology II: (363)

Grade Level: 10, 11 or 12

Prerequisite: C or better in Anatomy & Physiology I

One Semester

Credit: 1

Description: Anatomy & Physiology is recommended for any student that may be interested in the health science industry. This course involves an in-depth study of human anatomy and physiology as it relates to specialized body systems: Cardiovascular, Endocrine, Lymphatic, Respiratory, Digestive, Urinary and Reproductive Systems. Students engage in a variety of laboratory, lecture and discussion activities to explore the human body and its functions.

Medical Terminology (368)

Grade Level 10-12

One Semester

Credit: 1

Description: If you are interested in becoming a doctor, nurse, pharmacist, veterinarian, physical therapist, or any other health care professional you will be required to complete a medical terminology course. This course explores the root words, suffixes and prefixes of the vocabulary used in medical offices, hospitals, pharmacies, and other health settings. Students review the nervous, skeletal, cardiovascular, muscle and other major systems of the human body, and discuss terms related to physiology, anatomy, pharmacological, and pathological conditions. Students learn to spell, define and pronounce common medical terms that will be part of their college curriculums.

Forensic Science (369)

Grade Level: 11 or 12

Prerequisite: C or better in required science classes OR science faculty recommendation

One trimester

Credit: 1

Description: This course will explore the science behind its application in the justice system and the use of scientific procedures in the collection of evidence pertaining to criminal cases. This course will introduce a spectrum of methodologies and practices used in the field. Students will be introduced to the careers associated with forensic science. The course topics include physical evidence, serology and DNA, ballistics, fingerprint analysis, and drug analysis.

Zoology (370)

Grade level: 10,11,12 Prerequisite: C or better in science courses or permission of instructor

One Semester

Credit: 1

Description: Zoology is the branch of biology that studies the animal kingdom, including the structure, embryology, classification, habits, and distribution of all animals from grasshoppers to mammals, and how they interact with their environment. This class will be a mix of coursework, research and dissection. *A course fee of \$10/student will allow 10 different dissection specimens for every 4 students.*

Astronomy (364)

Grade Level: 11,12

One Semester

Credit: 1

Prerequisite: at least a 'B' in Algebra 1.

Astronomy is an introduction to the subset of physics dealing with our understanding of the cosmos and celestial objects in it. Content coverage is chronological, beginning with ancient cave paintings and stone circles in pre-history and progressing through antiquity up to the modern age. Topics of inquiry include the celestial sphere, solar and lunar cycles, formation of celestial bodies, in-depth study of stellar evolution, and cosmology.

Social Studies

4 Year Sequence Starting with Class of 2019

ACHS students are required to get 3 credits in the Social Studies department, but will take at least one course each year. The following is a **suggested** pathway for students to meet those requirements.

Grade Level & Credit Requirement	Non-AP Track	AP Track
9 th (1 credit)	Integrated World Studies A (1 semester) AND Integrated World Studies B (1 semester)	AP Human Geography (2 semesters)
10 th (1/2 a credit)	Government (1 semester)	AP U.S. Government (2 semesters) OR AP World History (2 semesters) with government standards included & required Civics Test
11 th (1 credit)	US History: 1865 to Great Depression (1 semester) AND US History: Great Depression - Present (1semester)	AP US History (2 semesters) OR BCTC Dual Credit- HIS 109
12 th (1/2 a credit)	Economics (1 semester)	AP Economics (Micro and Macro- 2 semesters)

Electives:

- Sports in American History: 11- 12
- History of Rock n Roll: 10-12
- Military History: 10-12
- Criminal Law & Justice: 11-12
- Psychology: 11-12
- Abnormal Psychology: 11-12
- Forensic Psychology- 11-12
- Historical and Cultural Influences of the Bible: Hebrew Scriptures and Old Testament 9-12
- AP World History: 10-12
- AP Psychology: 11-12

Integrated World Studies A and B (Required) - covering Geography & World History Standards (410 & 411)

Course Codes: Integrated World Studies A (Geography- 450709) and Integrated World Studies B (World History- 450835)

Grade Level: 9

Credit: 1 credit

Prerequisite: None

2 Semesters

Section A of this course covers the physical and human geographic study of the world, including all seven continents, basic geographic skills, and a study the interrelations of humans and their environment, patterns of location of human activities, human beings themselves and their cultures and patterns of human variation: regional, national, and global, as well as variations among cultures. Section B of the course will be 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.

AP Human Geography (A and B)—may be taken in place of 9th grade requirements (408 & 409)

Course Code: 450712

Grade Level: 9

Credit: 2

Prerequisite: Teacher Recommendation

2 Semesters

This course is equivalent to an introductory college-level course in human geography. It provides students with an in-depth study of the patterns and processes that have shaped human interaction with Earth and its resources. Students will employ a variety of concepts to examine human social organization and its environmental consequences. Students will also learn about the methods and tools geographers use in their science and practice. College credit is earned with a qualifying score on the AP Exam.

Government (Required) (420)

Course Code: 451031

Grade Level: 10

Credit: ½

Prerequisite: None

One Semester

This course is devoted to providing an overview of the American political system, including federal, state, and local government organization and functions. Students will develop a basic understanding of the American Constitution, the rights of citizens, and citizenship. It also covers the study of United States voting procedures; court operations; local, state and national lawmaking. Students will complete a state required Civics test at the conclusion of the course.

AP U.S. Government and Politics (A and B)- may be taken in place of 10th grade requirement (425 & 426)

Course Code: 451030

Grade: 10

Credit: 2

Prerequisite: None

2 Semesters

This course is equivalent to an introductory college-level course in government. AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning skills, assess causes and consequences of political events, compare SCOTUS decisions, interpret data and make conclusions about the data, and develop evidence-based arguments. College credit is earned with a qualifying score on an AP exam. Students will also complete a state required Civics test during the course.

AP World History (A & B) —(10th grade AP option in place of AP Gov't or Elective)
(422 & 423)

Course Code: 450876

Grade Level: 10 - 12

Credit: 2

Prerequisite: None

2 Semesters

AP World History is designed to be the equivalent of a two semester introductory college or university world history course. In AP World History students investigate significant events, individuals, developments, and processes in six historical periods from approximately 8000 B.C.E. to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. Attention will also be given to the formation and structures of government to satisfy the government content area. College credit is earned with a qualifying score on an AP exam. Students will satisfy a state requirement by taking a Civics test during the course.

US History A- 1865 to Great Depression (430) and US History B- Great Depression to present (431)
(Required)

Course Code: 450812

Grade Level: 11

Credit: 1 total credit

Prerequisite: None

2 Semesters

This class will examine both the political, social, and economic history of the United States from 1865 to the present day. The class will be separated into two parts. Part A will cover American history from 1865 (post

Civil War) to the Great Depression. Part B will pick up in the 1930s, Great Depression Era, and will conclude with America in the present day.

AP US History (A and B) —may be taken in place of 11th grade requirement (432 & 433)

Course Code: 450814

Grade Level: 11

Credit: 2

Prerequisite: None

2 Semesters

AP US history is the equivalent of a college survey history course. This course focuses on the development of historical thinking skills (chronological reasoning, comparing and contextualizing, crafting historical arguments using historical evidence, and interpreting and synthesizing historical narrative) and the development of students' abilities to think conceptually about U.S. history from approximately 1491 to the present. Seven themes of equal importance - American and National Identity; Migration and Settlement; Politics and Power; Work, Exchange, and Technology; America in the World; Geography and the Environment; and Culture and Society - provide areas of historical inquiry for investigation throughout the course. These require students to reason historically about continuity and change over time and make comparisons among various historical developments in different times and places. College credit is earned with a qualifying score on an AP exam.

Economics (Required) (421)

Course Code: 450601

Grade Level: 12

Credit: ½

Prerequisite: None

1 Semester

This is a one semester class, required for all students (beginning with the class of 2018), to be taken in the 12th grade. The class will survey issues related to Microeconomics, Macroeconomics, and Global Trade. The class will investigate the role of the consumer, producer, entrepreneur, and the role of government in our economy.

AP Economics (A & B) -may be taken in place of 12th grade requirement (444 & 445)

Course Codes: AP Microeconomics (450606) and AP Macroeconomics (450605)

Grade Level: 11-12

Credit: 2

Prerequisite: None

2 Semesters

This is an introductory college-level course that focuses on the study of Micro and Macro Economics. The first semester will begin AP Microeconomics which will focus on basic economic concepts, productive markets, factor markets, government regulation, and market failures. Macroeconomics will follow, focusing on Macroeconomic measurements, National Output, Fiscal Policy, Banking, Monetary Policy, Policy combinations, and International Econ. College credit is earned with a qualifying score on the AP Exam. Students will take two separate AP exams, AP Microeconomics and AP Macroeconomics.

SOCIAL STUDIES ELECTIVE OFFERINGS:

AP Psychology (A & B) (Elective)(440 & 441)

Course Code: 459902

Grade Level: 11 - 12

Credit: 2

Prerequisite: Teacher permission for 11th graders only

2 Semesters

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

History of Rock and Roll (Elective) (438)

Course Code:

Grade Level: 10-12

Credit: 1

Prerequisite: Teacher Recommendation

1 Trimester

The class will involve extensive reading, research, and writing. Students will examine the evolution processes of rock and roll starting with the blues and moving into the 50's to the present gaining an appreciation for each era of rock and roll. Particular attention will be paid to cultural trends, changes, and continuities, and historical foundations.

Psychology (Elective) (439)

Course Code: 459901

Grade Level: 11-12

Credit: 1

Prerequisite: None

1 Semester

Psychology is an introduction to the basic scientific theoretical principles of individual human behavior. Students will be exposed to various topics in the field of psychology research. This is a social science class that deals with the behavior and thinking of organisms. Topics will include personality changes, intellectual development, theories regarding human nature, abnormal behavior, and stress and adjustment.

Abnormal Psychology (Elective) (449)

Course Code:

Grade Level: 11-12

Credit: 1

Prerequisite: None

1 Semester

This course will introduce you to a wide variety of psychological disorders and theoretical concepts that underlie

them. You will learn the presenting symptoms, criteria, possible causes and treatments for each disorder discussed. By the end of this course, you are expected to have learned important information related to the study of abnormal behavior and you should be able to think critically about the topic. This course is designed in a stimulating way to increase your knowledge about how clinical psychologists approach work in their field and how abnormal psychology guides our understanding of mental processes that may disrupt lives.

Forensic Psychology (Elective) (435)

Course Code:

Grade Level: 11-12

Credit: 1

Prerequisite: None

1 Semester

Forensic Psychology is the application of psychology to legal issues. This course will provide a functional understanding of the intersection of psychology and the law and introduce students to related topics such as the roles and responsibilities of forensic psychologists, forensic psychological assessments, lie detection, evaluation of DNA and physical evidence, jury selection, the insanity defense, criminal profiling, eyewitness and expert testimony, offender treatment, the death penalty, and correctional psychology. By examining case studies, trials, established and emerging laws, and relevant research, students will gain knowledge into psychological aspects of criminal activity and people who commit those crimes, as well as a basic understanding of the major mental disorders and how they may cause, aggravate, and increase the likelihood of criminal conduct.

Sports in American History (Elective) (447)

Course Code:

Grade Level: 10 -12

Credit: 1

Prerequisite: None

1 Semester

This class will use American sports as a means of better explaining the major themes of American history. With concentration on the major team sports, the class will examine several significant themes (urbanism, technology, class, race and gender) in the larger contexts of American history. Special emphasis will be placed on the importance of sports in American cultural trends.

Criminal Law and Justice (Elective) (448)

Course Code: 451039

Grade Level: 11 -12

Credit: 1- performance based

Prerequisite: None

1 Semester

This course is general survey of the principles, system, and process of criminal justice. The course will include an introduction to conceptions and definitions of crime, criminal law, and due process. The course will include an examination of the organization and operation of the three basic components of the criminal justice system—the police, the courts, and corrections—individually and in relationship to one another. To broaden student understanding of criminal law and justice, the course will also include the historical

perspective of crime and punishment, famous criminals and cases, and a modern day look at crime and justice in our society.

Military History (Elective) (437)

Course Code:

Grade: 10-12

Credit: 1

Prerequisite: None

1 Semester

Students will examine the history of select military conflicts in modern times. Most examined battles will come from the US experience of war. Focus will be on weapons development, leaders, tactics, grand strategies of our military, and the impact of technology upon military operations. Students will be able to analyze military tactics and strategies and write several position papers.

Historical and Cultural Influences of the Bible: Hebrew Scriptures and Old Testament (Elective)

Course Code: 459811

Grade: 9-12

Credit: 1

Prerequisite: None

1 Semester

The History and Literature of the Biblical Era: Hebrew Scriptures and Old Testament course focuses on the historical impact and literary style from texts of the Old Testament era, including the Hebrew Scriptures. Topics may include historical background and events of the period, the customs and cultures of the peoples and societies, and the influence of the texts on law, history, government, literature, art, music, customs, morals, values, culture and events, including recent and current events.

Dual Credit: BCTC HIS 109- US History 1865- present (can be taken in place of 11th grade requirement) (803)

Course Code:

Grade: 11 (or elective for those who have met college readiness benchmarks)

Credit: 1

Prerequisite: Meet the requirements of the Dual Credit policy.

1 Semester

BCTC HIS 109 is the study of United States History from 1865 to present and students earn both high school and college credit for the course. The course includes the study of American political, social, economic and intellectual movements. Course requirements include weekly consideration of key documents in American History along with a research paper and the state-mandated end-of-course assessment. All juniors and seniors who have met BCTC entrance requirements are invited to take the course.

Arts and Humanities

* To earn the Humanities credit required for graduation, students must follow one of the two criteria below:

1. Take Performance-Based Humanities course for one full credit

--OR--

2. Take ANY Performance-Based arts class in art, music, dance, or drama for one full credit.

Humanities (510)

Grade 9-12

1 credit

Prerequisite: none

One Semester

Description: This class encompasses the beliefs, thoughts, and traditions of humankind as reflected in history, philosophy, religion, visual arts, drama, dance, music, and literature. The study of these subjects will promote an understanding of the connections among the arts and their historical and cultural contexts, and foster an examination of the common elements. Students will engage in activities related to art, drama, dance and music.

ART CLASSES:

Art I (511)

Grades 9-12

1 credit

Prerequisite: none

Fee: \$10.00

One Semester

Description: This course is designed to give students an introductory art curriculum. The first part will be drawing with a focus on perspective, basic shapes, achieving scale, proportion, and value. The second half of semester will focus on color theory and painting, as well as other colored media will be incorporated. Curriculum is designed to introduce most 2 dimensional art media and involves the execution of art elements and principles of design through studio art.

Art II (512)

Grades 10-12

1 credit

Prerequisite: Art I - "C" or better

Fee: \$10.00

One Semester

Description: Art II is a course that builds upon the fundamentals of the Art I curriculum. All 2D media will be incorporated as well as some mixed media. Students enrolling in Art II will need to have passed Art I with a "C" or better.

Painting (513)

Grades 10-12

1 credit

Prerequisite: Art 1

Fee: \$10.00

One Semester

Description: Painting is a class designed for students who enjoy painting. Acrylics and watercolor will be explored. Students will study subjects in painting throughout art history, and students will work on blending and creating value through painting media. This is a class with a painting emphasis. Students who are more interested in drawing and other media should take Art II.

Advanced Art 2D (515)

Grades 10-12

1 credit

Prerequisite: Art I and Art II

Fee: \$10.00

One Semester

Description: Students in this course will begin to create cohesive work and engage in the critique process where students will take an in-depth look at their work and various studio art processes.

Independent Study in Art (500)

Grades 12

Up to 2 credits

Prerequisite: Teacher approval and meet SBDM Transition Readiness policy.

Fee: \$10.00

One Semester

Description: This course can be a supplement to AP Studio Art: Drawing portfolio or General portfolio. In this class, students will work on an area of concentration; section required in the AP portfolio.

AP Studio Art: Drawing, 2- Dimensional Design and Sculpture A & B (519 & 520)

Grades 11-12

2 credit

Prerequisite: Teacher approval

Fee: \$10.00

Two Semesters

Description: This college-level course prepares students for the advanced placement portfolio. Students work individually on different areas of concentration and assigned projects in the quality section of the portfolio.

Printmaking (514)

Grades 10-12

1 credit

Prerequisite: Art 1

Fee: \$10.00

One Semester

Description: Printmaking is a course designed to provide students with a fundamental understanding of the processes, techniques and design problems encountered in three dimensional art. Students will also have the opportunity to explore various materials within the context of each assignment.

Sculpture (516)

Grades 10-12

1 credit

Prerequisite: Art 1

Fee: \$10.00

One Semester

Description: Sculpture is a course designed to provide students with a fundamental understanding of the processes, techniques and design problems encountered in three dimensional art. Students will also have the opportunity to explore various materials within the context of each assignment.

Ceramics I: Beginning hand building (524)

Grades 9-12

1 credit

Prerequisite: None

Fee: \$25.00 – (required)

One Semester

Description: Ceramics one is a course that is designed to provide students with a fundamental understanding of ceramic design, construction and surface treatment. Emphasis will be placed upon various construction techniques excluding the potter's wheel. Basics such as proper glazing and firing will be explored in depth.

Ceramics 2: Advanced hand building and introduction to the wheel (525)

Grades 10-12

1 credit

Prerequisites: Ceramics 1 with teacher approval

Fee: \$25.00

One Semester

Description: Ceramics two is a course that builds upon the fundamentals taught within ceramics one. Students will experience guided instruction in wheel throwing, as well as advanced hand building techniques. Emphasis will be placed upon independent self directed exploration of either the potter's wheel or advanced hand building. The class will consist of lectures, demonstrations presentations/critiques. Students will be required to keep a sketchbook which will contain project proposals, working sketches and notes related to classroom discussions. Technical issues such as firing and surface treatment will also be explored in depth.

MUSIC CLASSES:

Advanced Choir A and B (527 & 528)

Grades 9-12

2 credits

Prerequisite: Audition

Fee: tux rental and dress purchase

Two Semesters

Description: Students will develop the voice through study, practice, and performance with an emphasis on a cappella music. Performance opportunities will include at least two concerts, other smaller performances throughout the state and community, as well as District and State Festival. An audition is required. Piano Lab would be an elective that would improve the student's sight reading scores. AP Music Theory is also recommended for any student wishing to pursue Music in college or to improve the student's sight reading skills. *Students who wish to audition for all state chorus MUST take Advanced Choir all year.

General Chorus (529)

Grades 9-12

1 credit

Prerequisite: none

Fee: none

One Semester

Description: This group studies and performs a wide program of music literature. This group has several performances throughout the year including public concerts and other smaller performances throughout the community. The class is open to anyone who has a desire to learn the basics of music and proper singing techniques. Piano Lab would be an elective that would improve the student's sight reading scores. AP Music Theory is also recommended for any student wishing to pursue music in college or to improve the student's sight reading skills.

Men's Choir (530)

Grades 9-12

2 Credits

Prerequisite: None

Fee: None

Two Semesters

Description: This group studies and performs a wide program of music literature. The group will perform one concert and various other smaller performances throughout the community and state. The class is open to any female who wishes to improve their singing techniques.

Piano Lab would be an elective that would improve the student's sight reading scores. AP Music Theory is also recommended for any student wishing to pursue music in college or to improve the student's sight reading skills.

Piano Lab (531)

Grades 9-12

1 Credit

Prerequisite: none

Fee: none

One Semester

Description: This course studies music through the keyboard. Students will study basic musical skills while learning to play the piano. The course is open to beginners through advanced keyboardists. Piano Lab would be an elective that would improve the student's sight reading scores. AP Music Theory is also recommended for any student wishing to pursue Music in college or to improve the student's sight reading skills.

Piano Lab 2 (531.5)

Grades 10-12

1 Credit

Prerequisite: Experience playing the piano and reading music.

Fee: none

One Semester

Description: This course studies music through the keyboard. Students will enhance the basic skills they have already learned during this course. The course is open to anyone who has prior experience playing piano, but would like to continue improving and building their skills. Piano Lab would be an elective that would improve the student's sight reading scores, ability to play more difficult piano music, and enhance their skills as an overall musician.

Women's Choir (532)

Grades 9-12

2 Credits

Prerequisite: None

Fee: none

One Trimester

Description: This group studies and performs a wide program of music literature. The group will perform at least one concert and various other smaller performances throughout the community and state. The class is open to any female who wishes to improve their singing techniques.

Piano Lab would be an elective that would improve the student's sight reading scores. AP Music Theory is also recommended for any student wishing to pursue Music in college or to improve the student's sight reading skills.

AP Music Theory A & B (533 & 534)

Grades 11-12

2 Credits

Prerequisite: Students must have a working knowledge of musical concepts.

Fee: \$35 for ear training software

Two Semesters

Description: This course begins with rudiments of music and progresses through analysis and music

composition. Also included are ear training and sight singing. A general knowledge of music is required. Students should also have some performance experience, either instrumental or vocal.

Individual Vocal Solo and Ensemble (individual help for solo work and auditions) (536)

Grades 9-12

1 Credit

Prerequisite: Be able to carry a tune

Fee: none

One Semester

Description: This class is a performance class for experienced vocalists wishing to prepare for college auditions, GSA auditions, solo events and to improve vocal skills. Students will receive individual help on standard Classical solo repertoire. Students will also work individually on sight reading skills in preparation for various auditions such as GSA, All State, College Solo and Ensemble and other such opportunities.

Honors Band (546)

Grades 9-12

1 Credit each

Prerequisite: Consent of Band Director

Fee: none

Two Semesters

Description:

Band A & B (540 & 541)

Grades 9-12

1 Credit each

Prerequisite: Consent of the Director

Fee: none

Two Semesters

Description: This course is meant for experienced instrumentalists as well as students who wish to learn to play an instrument or transfer to a different instrument. The class will focus on fundamental musicianship and instrumental techniques. Opportunities for advanced players to pursue advanced material independently will also be made available. Students will continue into band B and C in next trimesters. Students will learn about competitive playing styles and percussion technique and athletic musicianship. Practices and competitions where participation is mandatory will take place after school and on weekends. This course is a performance class for experienced woodwind, brass and percussion instrumentalists. This class will focus on learning music through group performance. Standard band literature will be performed and an emphasis will be placed on improvement of musicianship and technique. Frequent performances are a required part of the course including performance at ACHS sporting events, KMEA Band Festival, two school based concerts, and the ACHS Graduation Ceremony. * Band students who wish to participate in KMEA all state or solo and ensemble festival must be enrolled in band all year. Band A, B, C will be required for students who participate in KMEA Events. **Honors band sections will be added on an enrollment/staffing condition. Students must audition and be selected to be placed in those sections.

Beginning Guitar (543)

Grades 9-12

1 Credit

Prerequisite: Must have access to an acoustic guitar.

Fee: none

One Semester

Description: This is a beginning acoustic guitar class for students who wish to learn the basics of guitar. Students must provide their own acoustic guitar. No previous experience required, just a desire to learn. Since this is a beginning guitar class, experienced guitarists who choose to enroll will be expected to assume responsibilities of peer mentoring and assist in the instruction of the course through small group leadership and one on one tutoring. Experienced guitarists will also be given coursework reflective of their ability level and challenging enough as to encourage their individual growth on their instrument.

Percussion Ensemble (544)

Grades 9-12

1 Credit

Prerequisite: Consent of the Director

Fee: none

One Semester

Description: This course is a performance class for experienced instrumentalists preferring to have an emphasis in percussion, but not required, meaning sax, piano, flute, etc. players can join. Previous band experience is required. This class will focus on learning music through group performance. Standard band literature will be performed and an emphasis will be placed on improvement of musicianship and technique. Frequent performances in spring are a required part of the course including performance on weekends at Tri-state Indoor competitions and in Solo and Ensemble Festival. *Students with percussion emphasis will be required to compete in all-district and solo and ensemble festival. Class time will be given to prepare for these auditions.

Solo and Ensemble-Instrumental (Individual Help for solo work and auditions) (545)

Grades 9-12

1 Credit

Prerequisite: Consent of the Director

Fee: none

One Semester

Description: This course is a performance class for experienced woodwind, brass and percussion instrumentalists. This class will focus on learning music through solo performance. Standard and advanced classical solo literature will be performed and an emphasis will be placed on improvement of musicianship and technique. Performances and auditions will be found throughout the year to see where student stands on a state and district level. Auditions include All-District Band, All-State Band, Solo and Ensemble Festival, ECU Kernel Day, Campbellsville Band Day, college auditions, GSA auditions, etc.

DRAMA CLASSES:

Drama-Acting (547)

Grades 9-12

1 credit

Students limited to two credits

Prerequisite: none

One Semester

Description: This course is devoted to the roots of theater. Folktales, Greek, Roman, and Medieval Theater will be the focus of this course. Students will compose, perform, and examine plays from each as well as write a program suitable for an elementary audience. Students will be responsible for acting, directing, and performing a play for the elementary schools in the county. Acting is required.

Drama-Technical (548)

Grades 9-12

1 credit

Students limited to two credits

Prerequisite: none

One Semester

Description: This course will focus on the third element of drama: Technical Theater. Students will participate in set construction and design in costuming, make-up, lighting, and sound. This course will take place during the 2nd trimester and will focus on the musical content for the spring production. Students will choose a play on their own and create a portfolio demonstrating knowledge of all components of technical theater.

Foreign Language

Spanish I (570)

Grades 9-11

Credit: 1

Prerequisite: none

One Semester

Description: This course builds the foundation for future Spanish study. Students memorize basic vocabulary and learn to conjugate verbs in the present tense, form sentences, and carry on simple conversations.

Spanish II (572)

Grades 9-12

Credit: 1 each

Prerequisite: Spanish I

One Semester

Description: Development continues in oral, listening, reading, and writing skills. Students learn increasingly complex grammatical structures along with the conjugation of verbs in the preterit, imperfect & future tenses.

Spanish III (574)

Grades 10-12

Credit: 1

Prerequisite: Spanish II

One Semester

Description: Students continue developing all four language skills in addition to studying the culture, traditions, and music of native Spanish speakers. Students learn to conjugate & to use the subjunctive mood.

Spanish IV (575)

Grades 10-12

Credit: 1

Prerequisite: Spanish III

One Semester

Description:

Spanish Culture (573)

Grades 11-12

Credit: 1

Prerequisite: Spanish 1 & 2

One Semester

Description:

AP Spanish A & B (576 & 577)

Grades 11-12

Credit: 2

Prerequisite: Spanish IV

Two Semesters

Description: Vocabulary development and listening, oral, written, and reading proficiency are stressed, along with a strong cultural component. The class focuses on preparation for the A.P. Spanish Exam and future college-level study of the language.

HEALTH & PE

Wellness (610) (Required)

Grade Level: 9

Credit: 1

One Semester

Description: This required course is made up of Health and Physical Education curriculum. Health instruction emphasizes essential health-related skills: CPR, consumer health, safety, accident prevention, substance use and abuse, development, personal health, mental health, family life, and environmental health education. In the fitness portion, students will be required to participate in a secondary physical education course. Activities will stress the development of basic skills, rhythmic activities, individual team sports and games, and self-testing physical fitness activities.

PE II: Team Games (612)

Grade Level: 10-12

Credit: 1

Prerequisite: "C" average in Wellness

One Semester

Description: Physical Education II shall consist of a continuation of activities included in PE I with an emphasis on advanced skill development, rule knowledge, and strategy acquisition, and physical development.

PE II: Conditioning (613)

Grade Level: 10-12

Credit: 1

Prerequisite: "A" average in Wellness

One Trimester

Description: This course shall consist of incorporating and documenting a weight training, stretching, and running program designed to improve condition in the areas of strength, flexibility, and cardiovascular fitness.

PE II: Weightlifting (614)

Grade Level: 10-12

Credit: 1

Prerequisite: "A" average in Wellness

Description: This course is designed for students who desire to be a skilled weightlifter. Advanced training techniques will include conditioning, agility, speed and quickness, in addition to the weight room work. All areas of fitness including cardio respiratory endurance, muscular strength, muscular endurance and flexibility will be included during this class. Students should expect to work hard everyday and be willing to push themselves to become their best.

PE II: Sports Weightlifting (607 & 608)

Grade Level: 9-12

Credit: up to 2

Prerequisite: Coach recommendation

Description: This course is designed for specific fitness and weightlifting techniques for athletes. Advanced training techniques will include conditioning, agility, speed and quickness, in addition to the weight room work. All areas of fitness including cardio respiratory endurance, muscular strength, muscular endurance and flexibility will be included during this class. Students should expect to work hard everyday and be willing to push themselves to become their best. Students who take this course all year (three trimesters in same year) will receive their required PE credit as specialized performance-based course.

PE II: Athletic Training (609)

Grade Level: 10-12

Credit: 1

Prerequisite: Interest in athletic training or physical therapy.

Description: This course is designed for students who have a desire to pursue athletic training, physical therapy, or sports medicine as potential areas of career study. Students will be exploring physical fitness, exercise, and wellness in terms of athletics beyond sports through the mindset of conditioning, therapy, training, and overall fitness programs for endurance, skill, injury, etc.

Agriculture

CAREER PATHWAYS

Animal Science Systems CIP: 01.0901.00	Horticulture & Plant Systems CIP: 01.1101.00	Ag. Power & Construction CIP: 01.0201.00
Recommended Courses	Recommended Courses	Recommended Courses
Principles of Agriculture Technology 030715 Animal Science 020501 Animal Technology 020502 Equine Science 020510 Small Animal Technology 020503 Veterinary Science 020511	Principles of Agriculture Technology 030715 Introduction to Greenhouse 010611 Floral Design 010621 Greenhouse Technology 10641 Landscape & Turf Management 010631 Crop Technology 010610	Principles of Agriculture Technology 030715 Ag Construction 010241 Small Power Equipment 010231 Agriculture Power & Machinery Operation 010212 Agriculture Structures & Design 010211
Elective Courses	Elective Courses	Elective Courses
Agricultural Education Co-op 030790	Agricultural Education Co-op 030790	Agricultural Education Co-op 030790

Principles of Agriculture Technology (615)

Grade Level: 9-10

Credit: 1

Prerequisite: None

Course Fee: None

One Trimester

This course provides instruction in the foundations of various segments of the agricultural industry. Agricultural career opportunities will be emphasized. Animal science, plant and land science, and agricultural mechanics skills will be the focus of the curriculum. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA (Future Farmers of America). Students will receive personal guidance and counseling with preparatory instructional program selection.

Animal Science (617)

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture

One Semester

Animal Science develops basic knowledge and skills pertaining to animal identification, selection, nutrition, reproduction and genetics, health management, and marketing of farm and companion animals commonly produced in Kentucky. The latest production technologies, as well as biotechnological applications, will be included. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Animal Technology (631)

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture

One Semester

Animal Technology instruction concentrates on the advanced production practices and current biotechnological applications of one or more species of farm animals, based on the local community needs. Laboratory experience will be used to emphasize concepts. Content may be enhanced by utilizing current industry accepted technology. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Equine Science (630)

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture

One Semester

Equine Science develops knowledge and skill pertaining to breed identification and selection, anatomy, physiology, nutrition, genetics and reproductive management, training principles, grooming, health disease, parasite control, and sanitation practices. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have an agricultural experience program.

Small Animal Technology (625)

Grade Level: 9-12

Credit: 1

One Semester

This course develops scientific knowledge, management practices, and marketing strategies in small and specialty animal technology. The curriculum includes identification, anatomy, physiology, nutrition, health, selection, and care of small animals. Species addressed typically include dogs, cats, rabbits, companion birds, ostriches, emus, tropical fish, and furbearers. Content will be enhanced with appropriate applied scientific laboratory activities. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Veterinary Science (624)

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture; Animal Science

One Semester

Veterinary science topics include safety, sanitation, anatomy and physiology, clinical exams, hospital procedures, parasitology, posology, laboratory techniques, nutrition, disease, office management, and animal management. Careers are also explored. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have an agricultural experience program.

Introduction to Greenhouse & Crop Technology (628)

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture

One Semester

Introduction to Greenhouse and Crop Production develops basic scientific knowledge and skills pertaining to management of soil and its effects on human and animal food and fiber production, the environment, and meeting basic needs of life. The relationship of soil to plant growth and horticulture will be emphasized. Plant anatomy, reproduction, growth, health, and current biotechnological advances will be included. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Floral Design (621)

Grade Level: 9-12

Credit: 1

Course: Fee: \$20.00

One Semester

Floriculture and Floral Design provides instruction to develop floral design techniques using silk, dried, and fresh flowers. Students will learn operation and management techniques of a floral business as well as identification, production, and cultural maintenance practices of plants used in floral design and interior landscaping. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Greenhouse Technology (619)

Grade Level: 10-12

Credit: 1

Prerequisite: Intro to Greenhouse

One Semester

Greenhouse Technology provides instruction in greenhouse structures and greenhouse environment regulations. Plant growth and development and propagation are included as well as production and maintenance of bedding and container produced plants. Fundamental principles of vegetable production and commercial production of vegetable crops as well as marketing of horticulture products may be included. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Landscape and Turf Management

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture

One Semester

This course includes identification of landscape plants and their characteristics, site evaluation, site design, calculation of materials needed, costs for bidding, and installing landscape plans. Landscape plant maintenance will also be presented. Selection, culture, and management of turf species used for lawns, golf courses, athletic fields and erosion control may also be included. Content may be enhanced by utilizing appropriate technology. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Crop Technology

Grade Level: 10-12

Credit: 1

Prerequisite: Intro to Greenhouse

One Semester

Crop Technology instruction concentrates on the production practices and current biotechnological applications of one or more agriculture crops. Hands-on experiences will be emphasized. Instruction will include variety selection, seed bed preparation, fertilization, pest, weed and disease control, harvesting, and marketing crops. Current biotechnological applications may be included. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have an agricultural experience program.

Agriculture Construction (622)

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture

One Semester

This course prepares students to construct and maintain agricultural structures and equipment. Develops basic skills such as: tool identification, interpreting plans, calculating a bill of materials, electrification, carpentry, welding, metal fabrication, plumbing and masonry. Leadership development will be provided through FFA (Future Farmers of America)

Small Power and Equipment (627)

Grade Level: 10-12

Credit: 1

Prerequisite: Principles of Agriculture

One Semester

This course is designed to develop skills in maintenance, repair, and operation of equipment, small combustion-type engine and electric motors. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Agriculture Power and Machinery Operation (626)

Grade Level: 10-12

Credit: 1

Prerequisite: Small Power & Equipment

One Semester

This course provides instruction and hands-on experience in basic principles of agricultural machinery assembly, operation, maintenance, service repair and safety. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have a supervised agricultural experience program.

Agriculture Structures & Design (623)

Grade Level: 10-12

Credit:1

Prerequisite: Agriculture Construction

One Semester

This course prepares students to evaluate, design and construct agricultural structures. Students learn to design, evaluate and interpret construction plans and calculate a bill of materials. The skills learned in the Agricultural Construction Skills course may be incorporated to construct an agricultural structure. Leadership development will be provided through FFA (Future Farmers of America). Each student will be expected to have an agricultural experience program.

Agriculture Co-op (632 & 633)

Grade Level: 12th ONLY

Credit: 1-3

Prerequisite: Complete and pass all other classes in the pathway, including electives.

Up to 3 Semesters

Cooperative Education for CTE (Career and Technical Education) courses provides 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 Guide. Description: This course introduces students to the National FFA Organization, the history of the organization, parliamentary procedure, record keeping, public speaking and career opportunities in agriculture. The selection and planning of a supervised agricultural experience program and related record keeping will be presented. Leadership development will be provided through FFA.

Family and Consumer Sciences

Career Pathways

Consumer and Family Management CIP: 12.0500.00	Early Childhood Education CIP: 13.1210.00	Culinary and Foods Services CIP: 12.0500.00	Teaching & Learning CIP: 13.0101.00
Recommended Courses	Recommended Courses	Recommended Courses	Recommended Courses
Lifeskills 200113 Money Skills 201010 Relationships 200171 Foods & Nutrition 200441	Child Development 200223 Child Services 1 200261 Child Services 2 200262	Foods & Nutrition 200441 Culinary 1 200411 Culinary 2 200412	The Learning Community 331030 The Learner Centered Classroom 331031 The Professional Educator 331032
Elective Courses	Elective Courses	Elective Courses	Elective Courses
Parenting 200173 Consumer Family Management Co-Op 200191	Lifeskills 200113 Relationships 200171 Parenting 200173 Early Childhood Co-Op 200210	Lifeskills 200113 Advanced Foods & Nutrition 200442 Culinary Co-Op 200409	Collaborative Clinical Experience 331033 Principles of Career & Tech. Education 331034 AP Course in Intended Teaching Discipline BCTC EDU 201: Intro. To American Education EDP 202: Human Development & Learning

Lifeskills (635)

Credit: 1

Grade Level: 9-10

Fee: \$5.00

One Semester

This comprehensive course provides an opportunity for acquiring basic life skills and guides students to explore and select specific areas for concentrated study. Emphasis is on family, employability skills, adolescent development, introduction of textiles, interiors and design, financial management, parenting, establishing healthy relationships, creating a foundation for healthy lifestyles, and nutrition.

Money Skills (653)

Grade Level: 11-12

Credit: 1

One Semester

This course is designed to prepare students to understand and use sound financial management skills and practices contributing to financial stability, improving the quality of life for individuals and families.

Decision-making, problem solving, goal setting, and using technology are integrated throughout the content. *Will meet the financial literacy graduation requirement when instituted.*

Relationships (637)

Grade Level: 11-12

Credit: 1

One Semester

This course assists students to develop self-understanding, better understand others, improve interpersonal skills both within and outside the family, be more considerate of other person's needs and property, and maintain mental and emotional wellness. Family Life education comprises a portion of this course, including dating and married relationships. Preparations for and the achievement of a successful marriage are emphasized. Leadership development will be provided through the Family, Career and Community Leaders of America.

Foods and Nutrition (655)

Grade Level: 9-12

Credit: 1

Fee: \$20.00

Course Description:

This course is designed to assist students in making critical decisions about food, which contributes to health and well-being. Laboratory instruction is included as an application process. Practical problems addressed relate to attitudes toward food, nutrition facts, special health concerns and diets, management of food resources, preparation skills, food safety, sanitation, and careers in nutrition and food service.

Parenting (638)

Grade Level: 9-12

Credit: 1

One Semester

This course is designed to educate students in parenting and caregiving skills that can be applied in a variety of situations. Major topics include the family, roles and responsibilities of parenting, preparing for a family, conception, prenatal and birth, infancy, health and safety, and early childhood education careers. Leadership development will be provided through the Family, Career and community Leaders of America (FCCLA).

Child Development (639)

Grade Level: 9-12

Credit: 1

One Semester

This course addresses the topics of early lifespan development including conception and pregnancy, labor and delivery, infants, toddlers, preschoolers, school-age children, health and safety, and exceptional children. Students will explore career opportunities within the early childhood education industry. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA).

Child Development Services 1

Credit: 1

Grade Level: 11-12

Prerequisite: Child Development

Course Description: This course provides training for entry-level positions in early childhood education programs. Students study professionalism, employability skills, child growth and development, health, safety and nutrition, learning environments and curriculum, child assessment, program management and evaluation as well as family and community partnerships. The subject content is reinforced with work experience in a variety of child care establishments. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA).

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Child Development Services 2 (644)

Credit: 1

Grade Level: 11-12

Prerequisite: Child Development Services 1

Course Description: Child Development Services II is a continuation of Child Development Services I and is designed for students who wish to further their training in early childhood education. Students gain in-depth work experiences in child care establishments, preschool centers, and other early childhood settings. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA).

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Culinary 1 (657)

Grade Level: 11-12

Credit: 1

Prerequisite: Foods and Nutrition

Fee: \$50.00

One Semester

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

Culinary 2 (658)

Grade Level: 11-12

Credit: 1

Prerequisite: Culinary 1

Fee: \$50.00

One Semester

In this course, students resume progress in pursuing competencies in food production and services. Orientation to the food service industry and development of food preparation skills are reinforced. Food service management functions are introduced. More in-depth information is provided and higher levels of skills are taught. Time is provided for work-based learning opportunities.

Advanced Foods & Nutrition (656)

Grade Level: 10-12

Credit: 1

Prerequisite: Foods & Nutrition

Fee: \$20

One Semester

This course is designed to assist students in principles related to food preparation. Specific content addressed will include planning, serving, food presentation, special diets, and nutrition for the lifespan, serving, and food planning for entertainment services. An emphasis on careers related to food service and nutrition will be addressed. Lab instruction emphasizes the application process.

The Learning Community (646)

Credit: 1

Grade Level: 9-12

In this course, students develop an understanding of the various responsibilities and systems involved in the K-12 educational system. Specifically, students will acquire the knowledge of education through the perspective of classroom, school, district, state, and federal roles. In clinical experiences, students are embedded in observational and small group or individual teaching settings. They engage with students, schools, and stakeholders across the community to better understand how the community functions as a system, noting how elements within the system relate and interact and the impact of students.

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The Learner Centered Classroom (647)

Credit: 1

Grade Level: 9-12

This course will develop rising educators' awareness of their funds of knowledge, as well as their personal biases that develop from their life experiences. Using research-based methods, rising educators will develop methods to impact student equity based on culturally competent models as well as growth mindset methods. The students will be embedded in classrooms in observing and active teaching roles (any of the 5 co-teaching models). They will experience a variety of settings in order to reflect on their developing understanding and skills across the K-12 spectrum.

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The Professional Educator (652)

Credit: 1

Grade Level: 10-12

Prerequisite: The Learning Community & The Learner Centered Classroom

In this course, students will develop an understanding of how educators advance their profession within the classroom. Specifically, students will gain both the knowledge and skills to plan, deliver, and reflect on the process of teaching and learning. In clinical experiences, students are deeply embedded in classroom settings, actively practicing the skills they are studying and reflecting on the results to deepen their understanding. The extended time in the classroom provides an opportunity to study at length a particular group of students and the discipline. *** YOU MUST BE ABLE TO TRANSPORT YOURSELF OR BE TRANSPORTED BY YOUR GUARDIAN TO YOUR PLACEMENT FOR THIS CLASS. REQUIRES TEACHER SIGNATURE ***

Collaborative Clinical Experience (650)

Credit: 1

Grade Level: 11-12

Prerequisite: The Professional Educator

In this course, students will refine the required knowledge and skills to be an effective educator while also practicing the dispositions necessary for the educational profession. Specifically, students will gain an understanding of how teachers lead through individual and collaborative growth and reflection. Students participate in clinical experiences. This is a work-based learning experience where students should spend almost all of their time in a classroom learning setting appropriate to their intended teaching discipline. * **YOU MUST BE ABLE TO TRANSPORT YOURSELF OR BE TRANSPORTED BY YOUR GUARDIAN TO YOUR PLACEMENT FOR THIS CLASS. REQUIRES TEACHER SIGNATURE ***

Principles of Career & Technical Education (651)

Credit: 1

Grade Level: 11-12

This course is designed to provide a general overview of career and technical education including program areas, components, philosophy, and current trends and issues. Students will examine a variety of topics including: history of Career and Technical Education (CTE), work based learning, career and technical student organizations, advisory councils, professional organizations as well as the influence of legislation on Career and Technical Education (CTE). **For students wanting to teach Agriculture, FCS, Technology, Business, or Engineering.**

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EDU 201: Introduction to American Education (BCTC Dual-Credit) (833)

Course ID: 000451

Credit: 3

Grade Level: 11-12

One Semester

Prerequisites: ENG 101 and Dual Credit Policy requirements

Presents an introduction to teaching including teaching as a profession, major educational philosophies, social reform, trends and issues in education, curriculum and instruction. Requires a minimum of 15 clock hours of field observation in an approved educational setting. Lecture: 3.0 credits (45 contact hours). Components: Lecture Attributes: Technical.

EDP 202: Human Development & Learning (BCTC Dual-Credit) (835)

Course ID: 000452

Credit: 3

Grade Level: 11-12

One Semester

Prerequisites: PSY 110 General Psychology and Dual Credit Policy requirements

Presents theories and concepts of human development, learning, and motivation and applies them to interpreting and explaining human behavior and interaction in relation to teaching across the developmental span from early childhood to adulthood. Requires field experience of a minimum of 15 clock hours in instructor-approved educational agencies. Lecture: 3 credits (45 contact hours). Components: Lecture Attributes: Other.

Peer Tutoring (654)

Credit: 1

Grade Level: 11-12

One Semester

Prerequisites: Requires a recommendation from Mrs. Shouse or Mrs. Adams.

This course introduces the student to the various aspects of special education. The student will be required to assist students with disabilities with class work and daily school routines. Requirements for this class are a research paper and a daily journal of their experiences. Confidentiality is a requirement of this class and breach of confidentiality will result in the student failing the class and being removed. This class would be beneficial for college bound education majors. Students who are interested will need to **complete an application with Mrs. Shouse or Mrs. Adams** and qualified students will be chosen based on academic performance, behavior, attendance and recommendations. Students can take this class their junior and senior year with a maximum limit of once per year.

Culinary Co-Op (659 & 660)

Grade Level: 11-12

Credit: 1-3

Prerequisite: Complete and pass all other classes in the pathway, including electives.

Up to 3 Semesters

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 Guide.

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Early Childhood Co-Op (640 & 641)

Grade Level: 11-12

Credit: 1-3

Prerequisite: Complete and pass all other classes in the pathway, including electives.

Up to 3 Semesters

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 Guide.

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Consumer Family Management Co-Op (648 & 649)

Grade Level: 11-12

Credit: 1-3

Prerequisite: Complete and pass all other classes in the pathway, including electives.

Up to 3 Semesters

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 Guide.* **YOU MUST BE ABLE TO TRANSPORT YOURSELF OR BE TRANSPORTED BY YOUR GUARDIAN TO YOUR PLACEMENT FOR THIS CLASS. REQUIRES TEACHER SIGNATURE.***

Graphic Design **CAREER PATHWAY**

Graphic Design CIP: 50.0401.00
Recommended Courses
Introduction to Media Arts 480901 Two-Dimensional Media Design 480920 Digital Imaging 480921 Advanced Production Design 480922
Elective Courses
Bearcat Broadcast Media Arts Co-Op 480950

Introduction to Media Arts (662)

Grade Level: 9-11

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.

Two-Dimensional Media Design (664)

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 (667)

Grade Level: 10-12

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.

Advanced Production Design (669)

Grade Level: 11-12

Credit: 1

This course emphasizes an advanced and independent use of compositional theory, elements and principles of design, techniques, and creative processes for effectively performing the function of persuasion and information through use of materials and media to create visual effects to produce original authentic works. Students will demonstrate an advanced level of creative expression to a variety of authentic design products (various print mediums such as magazines, newspapers, billboards, fictional and informational texts, product wrappers, and displays) through a purposeful arrangement of images and/or text and develop a strategic product presentation both independently and as a collaborative team. The course focuses on advanced computer generated designs as well as the use of various software and hardware with an emphasis on students creating, producing, responding, and connecting in visual art and new media. An in-depth independent study of career opportunities in media art is performed. Contemporary, cultural, and historical design may be studied.

Bearcat Broadcast (671)

Grade Level: 9-12

Prerequisites: Interview & Audition Process

Credit: 1

Production, editing, and airing of Bearcat Broadcast.

Media Arts Co-Op (672 & 673)

Grade Level: 12

Prerequisites: Complete and pass all other classes in the pathway, including electives.

Credit: 1-3

Cooperative Education for CTE courses provide supervised work site experience related to the student's identified career pathway. A student must be enrolled in an approved capstone course during the same school year that the co-op experience is completed. 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 Guide. *** YOU MUST BE ABLE TO TRANSPORT YOURSELF OR BE TRANSPORTED BY YOUR GUARDIAN TO YOUR PLACEMENT FOR THIS CLASS. REQUIRES TEACHER SIGNATURE.***

Engineering

Career Pathways

Electrical/Electronics Engineering CIP: 14.1001.00	Civil Engineering CIP: 14.0801.00
Recommended Courses	Recommended Courses
Engineering 1 210221 Engineering 2 210222 Electrical/Electronics Engineering 210232	Engineering 1 210221 Engineering 2 210222 Civil Engineering 210223
Elective Courses	Elective Courses
Engineering Capstone 210110 Engineering Co-Op 210330 AP Computer Science Principles A 110701	Engineering Capstone 210110 Engineering Co-Op 210330 AP Computer Science Principles A 110701

Hybrid Engineering pathways are also available in conjunction with Trailblazer Early College & Career Academy. Students may take Engineering I & II at ACHS, then go to Trailblazer to complete a pathway in Electrical Engineering, Welding Engineering, Structural Engineering, or Construction Architectural Engineering.

Engineering 1

Grade Level: 9-12

Prerequisites: Complete and pass all other classes in the pathway, including electives.

Credit: 1

This course applies the skills, concepts, and principles of engineering. Students explore various technological systems and engineering processes in related career fields. Topics include investigating technological system, design optimization, and problem solving. Students utilize CAD (computer-aided design) and physical and virtual modeling concepts to construct, test, collect, and report data. Participation in Kentucky Technology Student Association will greatly enhance instruction.

Engineering 2

Grade Level: 10-12

Credit: 1

A project and research based course that extends the learning experiences 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. Participation in Kentucky Technology Student Association will greatly enhance instruction.

Electrical/Electronics Engineering (679)

Grade Level: 10-12

Prerequisites: Engineering 1 &/or Engineering 2

Credit: 1

In this course students will gain skills and knowledge through classroom and lab activities in the areas of basic DC and AC circuits, circuit components, codes, testing, electromagnetism and inductance, capacitance, power supplies, power generation and distribution, amplification, digital circuits, and computer fundamentals. Students will develop a basic understanding of the various types of energy and how energy is obtained. Students will learn the safe use of the tools, test instruments, equipment and supplies used in this course plus information on career opportunities in this field. Hands-on and problem-solving activities will expose students to areas of electron theory, Ohm's Law, insulators, conductors, electronic components, oscillators, and electronic fabrication. Participation in Kentucky Technology Student Association will greatly enhance instruction.

Civil Engineering (680)

Grade Level: 10-12

Prerequisites: Engineering 1 &/or Engineering 2

Credit: 1

This is an introduction to residential and light commercial building construction and design. Students will learn basic sketching, architectural drafting skills with an emphasis on computer aided drafting. In this class, students will design a structure relevant to today's modern architecture and create models of their designs with various materials and tools. Students will experience and solve many problems in designing or building structures with regard to environment and community impact and limitations from town planning, urban design and landscape architecture to furniture and objects. Participation in Kentucky Technology Student Association will greatly enhance instruction.

Engineering Capstone (681)

Grade Level: 11-12

Prerequisites: Engineering 1 &/or Engineering 2

Credit: 1

Engineering scope, content, and professional practices are presented through practical applications in this capstone course. Students in engineering teams apply technology, Kentucky Academic Standards, and skills to solve engineering design problems and create innovative designs. Students research, develop, test and analyze engineering designs using criteria such as design effectiveness, public safety, human factors and ethics. Participation in Kentucky Technology Student Association will greatly enhance instruction.

Engineering Co-Op (686 & 687)

Grade Level: 11-12

Prerequisites: Complete and pass all other classes in the pathway, including electives.

Credit: 1

Cooperative education is a paid educational program consisting of in-school instruction combined with the program related on-the-job work experience in a business or industrial establishment. These are planned experiences supervised by the school and the employer to ensure that each phased contributes to the student's Individual Learning Plan (ILP). Refer to the KDE Work-Based Learning Manual for further specifications. Participation in

Kentucky Technology Student Association will greatly enhance instruction. * **YOU MUST BE ABLE TO TRANSPORT YOURSELF OR BE TRANSPORTED BY YOUR GUARDIAN TO YOUR PLACEMENT FOR THIS CLASS. REQUIRES TEACHER SIGNATURE.***

AP Computer Science

Grade Level: 10-12

Credit: 1

The Advanced Placement Program enables willing and academically prepared students to pursue college level studies – with the opportunity to earn college credit, advanced placement, or both – while still in high school. AP exams are given each year in May. Students who earn a qualifying score on an AP Exam are typically eligible to receive college credit and/or placement into advanced courses in college. Every aspect of AP course and exam development is the result of collaboration between AP teachers and college faculty. They work together to develop AP courses and exams, set scoring standards, and score the exams. College faculties review every AP teacher's course syllabus.

OTHER COURSE OFFERINGS:

DUAL CREDIT: Bluegrass Community and Technical College-Anderson Campus (713)

Grade Level: 11 and 12

Students may enroll in BCTC courses and receive dual credit at the high school, when they meet the criteria outlined in the dual credit policy and follow Early College guidelines. Mrs. Bridget Wells, Associate Principal, coordinates the Early College program and enrolls all BCTC students in individual advising sessions. No one may enroll through BCTC without consulting with Mrs. Wells. Tuition and books for the classes are the responsibility of the student. Students must meet SBDM dual credit policy requirements. If a student withdraws from a course at BCTC before the semester ends, he/she must return to the high school and enroll in a course at ACHS; otherwise, the transcript will reflect a failing grade for that course and students will lose the privilege of enrolling in any future BCTC dual credit courses. Each April, ACHS hosts a Dual Credit Early College night for questions and follow-up. Each August, BCTC hosts an orientation night addressing specific BCTC protocols and procedures.

Work-Based Learning Experience/Co-op (710 & 711)

Grade 12

Maximum 2 credits

Prerequisite: Transition Ready

Limited to 50 students and offered 5th block only

Description: Seniors are able to earn up to two credits while working a job in the local business community as a part of their school day. Co-op jobs are paid positions. Each interested senior must complete a preliminary job application to be considered. The student's weekly work hours must be equivalent to the hours WBLE appears on his/her class schedule. Students will complete a career portfolio and employers will evaluate their student employees each semester. Co-op students are supervised by Mr. Glen Drury and must be Transition Ready. Mrs. Bridget Wells is AP for this program at ACHS.

Work-Based Learning /Apprenticeship or Internship (712 & 712.1)

Grade 12

Maximum credits- based on individual student placements

Prerequisite: Career Readiness plan

May be offered any period(s) of the day

Description: Students must apply and interview with Anderson County Apprenticeship Program committee. Students who are recommended for apprenticeship or internship positions will go on to interview with local industry representatives or AC Schools representatives for specific positions. Schedules will be based on business need and student schedule flexibility. Employer supervisors will evaluate student work performance twice a term. Mr. Glen Drury is faculty supervisor and Mrs. Bridget Wells is AP for this program.

Community Based Work Transition Program (CBWTP)

Grade Level: 12

Credit: 1

One trimester

Description: This instructional program is designed as a capstone course in which special education students works in a paid or non-paid position in a business/industry. The student who works fifteen hours or more a week would qualify for minimum credit. In addition to the employment component, Cooperative Work Experience includes a Coop related class designed to provide students with tasks representative of work

performed in the various work sites. The course emphasizes the application of interpersonal and human relations skills, problem solving, and transitional skills. The related class is individualized and is to relate to the student's Training/Plan Agreement. Permission must be granted from program instructor.

Yearbook A (725)

Grade Level: 11-12

Prerequisite: Instructor permission

Credit: 1

One semester

Description: Through extensive and practical experience, students engage in developing marketing skills and public relations; small business bookkeeping; advertisement design; and customer service.

Furthermore, students learn online publication and basic photography skills. Staff members develop interpersonal skills and work together as a team. An application process and instructor permission is required before registration.

Yearbook B (726)

Grade Level: 11-12

Prerequisite: Instructor permission

Credit: 1

One semester

Description: Students are responsible for developing and completing the high school annual. Students develop abilities in layout and design; basic photography; interviewing skills; and copy writing abilities.

Journalism laws and professional ethics are covered through situational developments. Development of teamwork abilities, organizational skills, cooperation, and interdependence is imperative. An application process and instructor permission is required before registration.

Office Aide (729)

Grade level: SENIORS only

Prerequisite: Transition Ready & no novices on testing

Credit: 1

One Semester

Description: Students will work with the administrative support staff in the Main office, East Wing office, Guidance office, or Media Center.

Independent Study (100)

Grade level: SENIORS only

Prerequisite: Transition Ready & no novices on testing

Credit: 1

One Semester

Description: Seniors may only take one independent study each semester their senior year. Independent study curriculum should be something we do not offer at ACHS, go beyond the highest level of study, or be in area of college major interest. Contracts must be signed with an ACHS teacher and contract/syllabus submitted to Mrs. Wells covering assignments, research, assessments, and activities that will be covered.



TRAILBLAZER

Early College and Career Academy

Automotive Technology

CAREER PATHWAY

Automotive Maintenance and Light Repair

Automotive Engineering

AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR PATHWAY DESCRIPTION:

This pathway prepares individuals to apply technical knowledge and skills to repair, service, and maintain all types of automobiles. Includes instruction in brake systems, electrical systems, engine performance, engine repair, suspension and steering, automatic and manual transmissions and drivetrains, and heating and air condition systems.

AUTOMOTIVE ENGINEERING (HYBRID with Engineering) - PATHWAY DESCRIPTION:

This pathway provides the opportunity to blend Career and Technical Education (CTE) courses with Engineering courses to help students apply technical skills along with science, technology, engineering, and math (STEM) skills to solve real-world problems. This pathway prepares individuals to apply engineering principles and technical skills in support of engineers and other professionals engaged in developing, manufacturing and testing self-propelled ground vehicles and their systems. Includes instruction in vehicular systems technology, design and development testing, prototype and operational testing, inspection and maintenance procedures, instrument calibration, test equipment operation and maintenance, and report preparation

SEE AUTOMOTIVE TECHNOLOGY CAREER PATHWAY OUTLINES for specific information regarding required course work, dual credit options, industry certificates, and other opportunities relevant to these pathways.

Construction Carpentry Technology

CAREER PATHWAYS

Residential Carpenter's Assistant

Commercial Skilled Trades TRACK

Carpentry TRACK

Construction Architectural Engineering

Structural Engineering

Residential Carpenter's Assistant - PATHWAY DESCRIPTION:

This pathway prepares individuals to apply technical knowledge and skills to lay out, cut, fabricate, erect, install, and repair wooden structures and fixtures, using hand and power tools. Includes instruction in technical mathematics, framing, construction materials and selection, job estimating,

blueprint reading, foundations and roughing-in, finish carpentry techniques, and applicable codes and standards.

Commercial Skilled Trades TRACK - PATHWAY DESCRIPTION:

The Commercial Skilled Trades TRACK is designed as a pre-apprenticeship pathway for students to have the opportunity to enter a Registered Apprenticeship training program upon graduation. This Skilled Trades TRACK does not require an employer partner. Students must successfully complete the four course sequence, eight safety modules and an end of program assessment. Upon conclusion, the instructor will fill out a completion form and submit to OCTE. After being processed, the student will receive a pre-apprenticeship industry certification issued by the Kentucky Labor Cabinet. This certification will be recognized by participating partners for an interview and possible credit upon placement. Credit is at the discretion of the training organization.

CARPENTRY TRACK - PATHWAY DESCRIPTION:

The Tech Ready Apprentices for Careers in Kentucky (TRACK) youth pre-apprenticeship program is a partnership between the Kentucky Department of Education's Office of Career and Technical Education and the Kentucky Labor Cabinet to provide secondary students with career pathway opportunities into employers who offer Registered Apprenticeship programs. Employers are able to tailor the program for their specific needs and select the Career and Technical Education courses and students for their apprenticeship pathway. Employers benefit by gaining future employees that have a good foundation and an interest in that occupation. Additionally, it enables students to receive a nationally recognized credential. Successful completion is determined by the employer, and the student will be awarded an industry certification through The Kentucky Labor Cabinet, and all on-the-job hours worked will be counted towards the registered apprenticeship.

Construction Architectural Engineering (HYBRID with Engineering) - PATHWAY DESCRIPTION:

This pathway provides the opportunity to blend Career and Technical Education (CTE) courses with Engineering courses to help students apply technical skills along with science, technology, engineering, and math (STEM) skills to solve real-world problems. This pathway prepares individuals to apply engineering principles and technical skills in support of architects, engineers and planners engaged in designing and developing buildings, urban complexes, and related systems. Includes instruction in design testing procedures, building site analysis, model building and computer graphics, structural systems testing, analysis of prototype mechanical and interior systems, report preparation, basic construction and structural design, architectural rendering, computer-aided drafting (CAD), layout and designs, architectural blueprint interpretation, building materials, and basic structural wiring diagramming.

Structural Engineering (HYBRID with Engineering) - PATHWAY DESCRIPTION:

This pathway provides the opportunity to blend Career and Technical Education (CTE) courses with Engineering courses to help students apply technical skills along with science, technology, engineering, and math (STEM) skills to solve real-world problems. This pathway prepares individuals to apply engineering principles and technical skills in support of architects, engineers and planners engaged in designing and developing buildings, urban complexes, and related systems. Includes instruction in design testing procedures, building site analysis, model building and computer graphics, structural systems testing, analysis of prototype mechanical and interior systems, report

preparation, basic construction and structural design, architectural rendering, architectural-aided drafting (CAD), layout and designs, architectural blueprint interpretation, building materials, and basic structural wiring diagramming.

SEE CARPENTRY CONSTRUCTION TECHNOLOGY CAREER PATHWAY OUTLINES for specific information regarding required course work, dual credit options, industry certificates, and other opportunities relevant to these pathways.

Electrical Technology

CAREER PATHWAYS

Industrial Electrician Assistant

Skilled Trades Construction Electrical TRACK

Construction TRACK

Electrical Construction Engineering

Industrial Electrician Assistant - PATHWAY DESCRIPTION:

This pathway prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems in residential, commercial, and industrial electric-power wiring, DC and AC motors controls, and electrical distribution panels. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

SKILLED TRADES CONSTRUCTION ELECTRICAL TRACK - PATHWAY DESCRIPTION:

The Electrical Skilled Trades TRACK is designed as a pre-apprenticeship pathway for students to have the opportunity to enter a Registered Apprenticeship training program upon graduation. This Skilled Trades TRACK does not require an employer partner. Students must successfully complete the four course sequence, eight safety modules and an end of program assessment. Upon conclusion, the instructor will fill out a completion form and submit to OCTE. After being processed, the student will receive a pre-apprenticeship industry certification issued by the Kentucky Labor Cabinet. This certification will be recognized by participating partners for an interview and possible credit upon placement. Credit is at the discretion of the training organization.

CONSTRUCTION TRACK - PATHWAY DESCRIPTION:

The Tech Ready Apprentices for Careers in Kentucky (TRACK) youth pre-apprenticeship program is a partnership between the Kentucky Department of Education's Office of Career and Technical Education and the Kentucky Labor Cabinet to provide secondary students with career pathway opportunities into employers who offer Registered Apprenticeship programs. Employers are able to tailor the program for their specific needs and select the Career and Technical Education courses and students for their apprenticeship pathway. Employers benefit by gaining future employees that have a good foundation and an interest in that occupation. Additionally, it enables students to receive a nationally recognized credential. Successful completion is determined by the employer, and the student will be awarded an industry certification

through The Kentucky Labor Cabinet, and all on-the-job hours worked will be counted towards the registered apprenticeship.

ELECTRICAL CONSTRUCTION ENGINEERING (HYBRID with Engineering) - PATHWAY

DESCRIPTION:

This pathway provides the opportunity to blend Career and Technical Education (CTE) courses with Engineering courses to help students apply technical skills along with science, technology, engineering, and math (STEM) skills to solve real-world problems. This pathway prepares individuals to apply technical knowledge and skills to install, operate, maintain, and repair electric apparatus and systems such as residential, commercial, and industrial electric-power wiring; and DC and AC motors, controls, and electrical distribution panels. Includes instruction in the principles of electronics and electrical systems, wiring, power transmission, safety, industrial and household appliances, job estimation, electrical testing and inspection, and applicable codes and standards.

SEE ELECTRICAL TECHNOLOGY CAREER PATHWAY OUTLINES for specific information regarding required course work, dual credit options, industry certificates, and other opportunities relevant to these pathways.

Welding Technology

Pathways

Welding Entry Level

Manufacturing TRACK

Skilled Trades Welding TRACK

Welding Engineering

Welding Entry Level – Pathway Description:

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

MANUFACTURING TRACK - PATHWAY DESCRIPTION: The Tech Ready Apprentices for Careers in Kentucky (TRACK) youth pre-apprenticeship program is a partnership between the Kentucky Department of Education's Office of Career and Technical Education and the Kentucky Labor Cabinet to provide secondary students with career pathway opportunities into employers who offer Registered Apprenticeship programs. Employers are able to tailor the program for their specific needs and select the Career and Technical Education courses and students for their apprenticeship pathway.

Employers benefit by gaining future employees that have a good foundation and an interest in that occupation. Additionally, it enables students to receive a nationally recognized credential. Successful completion is determined by the employer. The student will be awarded an industry certification through The Kentucky Labor Cabinet. All on-the-job hours worked will be counted towards the registered apprenticeship.

SKILLED TRADES WELDING TRACK - PATHWAY DESCRIPTION:

The Welding TRACK is designed as a pre-apprenticeship pathway for students to enter Registered Apprenticeship training programs. Students must successfully complete the four course sequence and eight safety modules. In addition, each student must pass the Kentucky Department of Transportation (KY DOT) written exam and the KY DOT 3G performance exam OR AWS 2F exam OR AWS Sense exam. Upon completion the student will receive a pre-apprenticeship industry certification issued by the Kentucky Labor Cabinet. This certification will be recognized by participating partners for an interview and possible credit upon acceptance. Credit is at the discretion of the training organization.

WELDING ENGINEERING (HYBRID with Engineering) - PATHWAY DESCRIPTION:

This pathway provides the opportunity to blend Career and Technical Education (CTE) courses with Engineering courses to help students apply technical skills along with science, technology, engineering, and math (STEM) skills to solve real-world problems. Welding Engineers design and develop metal components for products for the pipeline, automotive, boiler making, ship building, aircraft and mobile home industry. Welding Engineers must have knowledge of cutting processes and gas metal arc welding procedures for efficient development of these industrial processes.

SEE WELDING TECHNOLOGY CAREER PATHWAY OUTLINES for specific information regarding required course work, dual credit options, industry certificates, and other opportunities relevant to these pathways.

Health Sciences
CAREER PATHWAYS
Allied Health
EKG Technology/Technician
Phlebotomy Technician
Pharmacy Technician
Pre-Nursing (SRNA Certification)

ALLIED HEALTH - PATHWAY DESCRIPTION:

A general, introductory, undifferentiated, or joint pathway in health services occupations that prepares individuals for either entry into specialized training pathways 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.

EKG TECHNOLOGY/TECHNICIAN - PATHWAY DESCRIPTION:

This pathway prepares individuals, under the supervision of physicians and nurses, to administer EKG and ECG diagnostic examinations and report results to the treatment team. Includes instruction in basic anatomy and physiology, the cardiovascular system, medical terminology, cardiovascular medications and effects, patient care, EKG and ECG administration, equipment operation and maintenance, interpretation of cardiac rhythm, patient record management, and professional standards and ethics.

PHLEBOTOMY TECHNICIAN - PATHWAY DESCRIPTION:

This pathway prepares individuals, under the supervision of physicians and other health care 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.

PHARMACY TECHNICIAN - PATHWAY DESCRIPTION:

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, record-keeping, measurement and testing techniques, pharmacy business operations, prescription preparation, logistics and dispensing operations, and applicable standards and regulations.

PRE-NURSING - PATHWAY DESCRIPTION:

This pathway prepares individuals to pass the State Registered Nurse Aide certification test and for admission to a professional pathway in Nursing.

SEE HEALTH SCIENCES CAREER PATHWAY OUTLINES for specific information regarding required course work, dual credit options, industry certificates, and other opportunities relevant to these pathways.



TRAILBLAZER

Early College and Career Academy

CAREER PATHWAY COURSE OUTLINES

Automotive	Welding	Allied Health
<i>Principles of Agriculture would be good lead into these programs.</i>		Principles of Health Sci
Automotive Maintenance Light Repairs A	Basic Welding	Emergency Proc.
Auto Maint Light Repair B	Cutting Processes	Medical Terminology
Auto Maint Light Repair C	Shielded Metal Arc Welding	Allied Health Core Skills
Auto Maint Light Repair D	Gas Metal Arc Welding*	<i>Anatomy and Phys. I or Body Functions</i>
Auto Special Problems I	SMAW groove lab	Medicaid Nurse Aide*
Auto Special Problems II	Gas Tungsten Arc Welding	EKG*
Automotive Co-op	GMAW Groove Lab*	Phlebotomy*
	SMAW Groove Welds	Pharmacology*
	BCTC college credit options*	Medical Coding*
		BCTC college credit options recommended for LPN & RN* BIO 137 ENG 101 PSY 110 MAT 150 or 111 CIT 105 HIS 109 MIT 204
Industrial Electrician	Carpentry	
<i>Principles of Agriculture would be good lead into these programs.</i>		
Electrical Construction I	Intro to Construction Technology	
Circuits I	Floor and Wall Framing	
Electrical Construction II*	Ceiling and Roof Framing	
Circuits II	Exterior and Interior Finish	Co-op & Internships
Rotating Machinery*	Site Layout & Foundations	
Electrical Motor Controls*	Exterior & Interior Finish	
Basic Troubleshooting*	Cabinet Construction & Installation	
Fluid Power*	Construction Blueprint*	
BCTC college credit options*	Basic Blueprint*	
TRACK Apprenticeships	BCTC college credit options*	
	TRACK Apprenticeships	