ROCKCASTLE COUNTY HIGH SCHOOL

HOME OF THE ROCKETS

Course Guide 2022-2023

100% Transition Readiness Goal

ROCKCASTLE COUNTY HIGH SCHOOL

Equipping all students to become contributing members of society

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COLLEGIATE-STYLE HONORS SYSTEM

Instead of a class Valedictorian and Salutatorian, RCHS began using a collegiate-style honors system of recognition in 2019. The rationale for this change was as follows:

- *Utilizing a collegiate-style honors system (Cum Laude, Magna Cum Laude, and Summa Cum Laude) allows more students to be recognized for their academic achievements.*

- *The difference in G.P.A. between the top students is normally less than .1.*

- *The emphasis on the distinction of Valedictorian has been decreased or eliminated with colleges across the state and nation.*

- *Utilizing the collegiate-style recognition system will familiarize students with the system and terminology that is used at the college/university level.*

- *In some cases, students have been unable to compete for the title of Valedictorian or Salutatorian due to a planned career pathway in which certain courses are required. These students often have difficulty fitting in A.P. classes along with their career pathway classes.*

- *Eliminating the Valedictorian/Salutatorian designation allows students to focus on learning and preparing for college and a career rather than on the competition, which can be counter-productive. A collegiate system of recognition fosters a more supportive atmosphere amongst class members.*

IMPLEMENTATION:

- *Designate weighted G.P.A. benchmarks for each classification:*
  - *3.5-3.74: Cum Laude*
  - *3.75-3.99: Magna Cum Laude*
  - *4.0 and higher: Summa Cum Laude*

- *From the Summa Cum Laude group, students who would like to be considered as a speaker during the graduation program will be selected through a blind application process by committee four weeks prior to graduation.*

- *Recognize all honors students with ropes, sashes, pins, etc. during the graduation ceremony:*
  - *Cum Laude-Pin*
  - *Magna Cum Laude-Cord*
  - *Summa Cum Laude-Sash or Tassel*

PRE-COLLEGE CURRICULUM

Pre-college curriculum is all required courses in addition to Spanish I and Spanish II.

ENGLISH/LANGUAGE ARTS

Rockcastle County High School students must complete **four credits** of English for graduation. **STUDENTS MUST TAKE AN ENGLISH COURSE EACH YEAR**

GRADE	COURSE	DESCRIPTION
9	English 9	English 9 will focus on building and advancing skills in reading and writing. Comprehension, basic grammar, and writing skills will be emphasized. Students will gain experience in literary analysis and will develop writing skills in various genres. Students will also develop all communication strands: reading, writing, listening, speaking, inquiry, and media/technology usage.
9	Advanced English 9	Advanced English 9 prepares students for high school AP courses in language and literature by further emphasizing students' skills in using and analyzing language. In addition to the goals of on-level language arts courses, students enrolled in Advanced English classes will read from more advanced texts and seek to offer more in-depth interpretations. Students compose more advanced analytical papers using a college level rubric with appropriate formatting and documentation. Designed specifically to prepare students for future Advanced Placement English courses, Advanced English courses focus on the close reading, analytical writing, and language skills most essential for their future work in high school, college, and careers. These rigorous courses require independent, analytical thinking related to complex writing assignments and complex texts.
10	English 10	English 10 will focus on continuing to build skills in reading and writing. Within this course students will focus on reading comprehension with both fiction and nonfiction texts. Additionally, students will deepen their understanding of words and their use; building and expanding both their personal and academic vocabulary. General English 10 is a writing intensive course in which students will have multiple opportunities to practice the process of writing.
10	Advanced English 10	Advanced English 10 prepares students for high school AP courses in language and literature by further emphasizing students' skills in using and analyzing language. In addition to the goals of on-level language arts courses, students enrolled in Advanced English classes will read from more advanced texts and seek to offer more in-depth interpretations. Students compose more advanced analytical papers using a college level rubric with appropriate formatting and documentation. Designed specifically to prepare students for future Advanced Placement English courses, Advanced English courses focus on the close reading, analytical writing, and language skills most essential for their future work in high school, college, and careers. These rigorous courses require independent, analytical thinking related to complex writing assignments and complex texts.
11	English 11	English 11 requires students to work in all areas of language arts. They will read, discuss, analyze, and write about the authors and literature of America, with particular emphasis on the argumentative & the expository essay. In addition, a thorough review of basic skills in the areas of usage, mechanics/conventions, and organization will ensure that students have mastered junior-level English.
11	AP English Language and Composition	AP English Language and Composition encourages the reading and writing skills students need for college success and for intellectually responsible civic engagement. The course guides students in becoming curious, critical, and responsive readers of diverse texts and becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. Students will deepen and expand their understanding of how written language functions rhetorically: to communicate writers' intentions and bring forth readers' responses in particular situations. The course aligns with an introductory college-level rhetoric and writing curriculum. There are no prerequisite courses for AP English Language and Composition, but students should be able to read and comprehend college-level texts and write grammatically correct, complete sentences. All students are expected to take the Advanced Placement English Language and Composition exam in May. ***Students who earn a 3 or higher on the A.P. exam earn college credit.**
12	English 12	In order to prepare students for post-secondary education or to move productively into the workforce, English 12 is designed to provide students with literary, technical, and academic reading and composition skills. Reading instruction will include, but is not limited to nonfiction/technical writing, academic essays, fiction, poetry, drama, and non-print texts. Additionally, students will write for a variety of purposes including situations

		found in academics an-d the workplace. Students will have multiple opportunities for research, multi-modal presentations and a variety of formal and informal discussions.
12	AP English Literature and Composition	***Course Recommendation: Students should be able to read and comprehend college-level texts and write grammatically correct, complete sentences.*** The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. All students are expected to take the Advanced Placement English Literature and Composition exam in May. ****Students who earn a 3 or higher on the A.P. exam earn college credit.***
12	Dual Credit English ENG101 & ENG102	***Must meet admission criteria set by the college/university through which the course is offered*** In these college writing courses, students can earn high school English IV credit and up to 6 hours of college-level credit. Students develop critical reading skills while integrating and responding to varied sources; composing texts including summaries, analyses, evaluations, responses, and arguments; emphasizing style, organization, coherence, purpose, and persuasion for various audiences. In ENG 102, students will refine the skills developed in ENG 101 and extend their skills to documentation and work with primary and secondary sources; and utilizing technology for inquiry, analysis, and argumentation.

MATHEMATICS

Rockcastle County High School students must complete **four credits** of mathematics for graduation. Three of these must be Algebra 1, Geometry and Algebra 2. These three classes also represent the Pre-college curriculum for Kentucky students. In addition to these three classes, students will take at least one math elective. **STUDENTS MUST TAKE A MATH COURSE EACH YEAR.**

- Algebra 1, Geometry and Algebra 2 each has a corresponding advanced course. In each of these, the units are similar, however the advanced courses teach additional topics within each unit and the content is studied with more depth and rigor.
- **For students NOT completing Algebra 1 in the 8th grade and who want to advance to A.P. Calculus:** Either **1)** Accelerated Algebra II and Accelerated Geometry or **2)** Accelerated Geometry and Advanced Topics should be taken concurrently.

GRADE	COURSE	DESCRIPTION
9	Algebra 1	Algebra I is generally the first of the series of mathematics courses. The students will learn to perform operations on different types of numbers and algebraic expressions, analyze graphs and solve equations.
9	Advanced Algebra 1	**Prerequisite: Students must meet readiness test benchmark** Advanced Algebra I is the first of the series of mathematics courses for students who want to pursue advanced math courses. The students will learn to perform operations on different types of numbers and algebraic expressions, analyze graphs and solve equations. *Note: This class is recommended for college-bound students and meets Kentucky graduation requirements.*
10	Geometry	**Prerequisite: Algebra 1** The emphasis of geometry is placed on the use of reasoning skills and two and three dimensional spatial concepts to solve both mathematical and real world problems. Students will explore measurements and properties of lines, angels, volumes, areas, and polygons.
9, 10, 11	Advanced Geometry	**Prerequisite: Advanced Algebra I with a grade of B or higher OR Algebra 1 with a grade of A and math department approval** The emphasis of advanced geometry is placed on the use of reasoning skills and two- and three-dimensional spatial concepts to solve both mathematical and real world problems. Students will explore measurements and properties of lines, angles, volumes, areas, and polygons. *Notes:* ▪ *This class is recommended for college-bound students and meets Kentucky graduation requirements.* ▪ *Advanced Algebra II and Advanced Geometry may be taken concurrently.* ▪ *9th graders that received Algebra 1 credit in 8th grade should begin high school with this course.*
11	Algebra 2	**Prerequisite: Algebra 1** Algebra II is an in depth continuation of the topics studied in Algebra I as well as an introduction to advanced algebraic concepts. *Note: This class meets minimum requirements for the pre-college curriculum/Kentucky graduation.*
10, 11	Advanced Algebra 2	**Prerequisites:** **1) Advanced Algebra I with a grade of B or higher OR Algebra 1 with a grade of A and math department approval.** **2) Advanced Geometry with a grade of B or higher OR Geometry with a grade of A and math department approval.** Accelerated Algebra II is an in depth continuation of topics studied in Accelerated Algebra I as well as an introduction to advanced algebraic concepts. *Notes:* ▪ *This class is recommended for college-bound students and meets Kentucky graduation requirements.* ▪ *Advanced Algebra II and Advanced Geometry may be taken concurrently*
11, 12	Advanced Topics	**Prerequisites: Algebra I, Algebra II, and Geometry** This class will extend the algebraic topics that were studied in Algebra 2 and extend the study of trigonometry beyond right triangle trigonometry. In Advanced Topics, students will study conic sections, polynomial functions, exponential functions, and trigonometry. The class is designed to prepare students for college math as well as for Advanced Placement Calculus in high school.

		Note: This class is an advanced math class and generally serves as a math elective
10, 11, 12	Money Skills	Designed to prepare students to understand and use sound financial management skills and practices contributing to financial stability and improving the quality of life for individuals and families. Decision-making, problem solving, goal setting and using technology are integrated throughout the content. *Note: In addition to serving as a math elective, this course also fulfills a requirement for a career pathway in Family/Consumer Science.*
12	College Math Readiness	**Prerequisites: Algebra I, Geometry and Algebra II** This class is designed to review algebraic concepts from earlier math class for college-bound 12th grade students whose ACT math sub-score is below 19. This class is modeled after EKU's remedial math courses. The purpose of this class is to assist students in raising their placement test scores in order to avoid taking developmental math courses in college. ▪ *At the end of this course, students will re-take the KYOTE (a math placement exam at many state schools). Their score on this test will aid in determining their proper placement in math courses in college and possibly testing out of remedial courses.*
12	Algebra 3	***Prerequisites: Algebra I, Algebra II, Geometry*** The content of this course goes beyond the content of a traditional Algebra II course and will provide opportunities to solve applied (in context) problems with an emphasis on mathematical modeling and data collection. In Algebra III, students will study simple conic sections, quadratic functions, polynomial functions, exponential functions, and trigonometry. This class is designed to prepare students for college math. Note: This course serves as a math elective.
11, 12	Applied Mathematics	Applied Mathematics is an extension of geometric and algebraic concepts along with probability and statistics. This course is designed to be taken after Algebra 1 and Geometry. It is an alternative to Algebra 2.
12	AP Calculus	**Prerequisites: Algebra I, Geometry, Algebra 2 and Advanced Topics or College Algebra** Advanced Placement Calculus is designed to be the equivalent of a first year college calculus course. Topics will include limits, differentiation and integration. *Note: At the end of 36 weeks, students may choose to take the AP Calculus Exam for possible college credit.*
11, 12	College Algebra Dual Credit MAT150	**Prerequisites: Must meet SCC eligibility requirements** A study of real and complex numbers, integer and rational exponents, polynomial and rational equations and inequalities, graphs of functions and relations, exponential and logarithmic functions, systems of equations, and matrices. A grade of C or higher will grant 3 hours of college credit in addition to high school math credit.

SCIENCE		
GRADE	COURSE	DESCRIPTION
9	Physical Science	This is an introductory course focused on the basic ideas in physics and chemistry. Emphasis will be placed on experimental observations and using the tools of science. Topics studied include mechanics, energy (mechanical, heat, light, sound, electricity) and periodic trends. This course serves as a foundation for the other required science courses.
9	Advanced Physical Science	Advanced Physical Science is the first course for students who want to pursue advanced science courses. This is an introductory course focused on the foundational ideas in physics and chemistry. Emphasis will be placed on experimental observations and using the tools of science. Topics studied include mechanics, energy (mechanical, heat, light, sound, electricity) and periodic trends. *Note: This class is strongly recommended as a pre-requisite for students who intend to take AP Physics, College Physics and/or AP Chemistry.*
10	Biology 1	Biology I is an inquiry based course that covers topics on the cell, molecular basis of heredity, biological change, changes in the earth's systems, interdependence of organisms, matter and energy, organization in living systems, and the behavior of organisms.
10	Advanced Biology 1	**Prerequisites: Advanced Physical Science with a grade of C or higher OR Physical Science with a grade of A and science department approval** Honors Biology I is an inquiry based course that covers topics on the cell, molecular basis of heredity, biological change, changes in the earth's systems, interdependence of organisms, matter and energy, organization in living systems, and the behavior of organisms. *Note: This class is recommended for college-bound students and meets Kentucky graduation requirements*
10	Agri-Biology	See course description in the Agriculture Course section of this guide. **Agri-Biology will meet Biology I requirement.**
11	Earth Science	**Prerequisite: Physical Science and Biology 1** Earth Science is a study of the concepts which naturally occur within our Universe with particular emphasis on earth systems. The underlying theme of the course is focused on the relationships and connections between matter, energy, living systems and the physical environment.
10, 11, 12	Physics 1	**Prerequisite: Advanced Physical Science or Physical Science** Physics I is a study of the nature of matter, energy and their relationships. This course is focuses on experimental observations and interpretation of data. An adequate preparation in mathematics, particularly algebra, is helpful and the application of mathematics is just one of several tools to support conceptual development. This course satisfies the pre-college curriculum and includes a level of rigor that will help the student be successful in college level science courses.
11, 12	College Physics PHY131	**Prerequisite: Accelerated Algebra II with a grade of B or higher and department approval.** College Physics I is designed to be equivalent with a first year algebra-based college physics course. This course includes intensive study of Newtonian mechanics, thermal physics, waves and related topics. Summer assignment is required.
10, 11, 12	Chemistry 1	**Prerequisite: Advanced Physical Science or Physical Science** Chemistry I will develop general laboratory experiences and activities in the concepts of chemistry through the study of matter, changes in matter and matter energy relationships. The techniques of data collection, measurement, data analysis and lab safety are developed through open-ended investigation as well as the replication of standard experiments. Chemistry is a quantitative science that deals with calculations; therefore, a strong math skill set is necessary. This course satisfies the pre-college curriculum and includes a level of rigor that will help the student be successful in college level science courses.
11, 12	AP Chemistry	**Prerequisite: Chemistry 1 with a grade of C or higher and department approval** This course is designed to be the equivalent of the general chemistry course usually taken during the first college year. This is an academic, quantitative chemistry course. Chemistry is the study of atoms and molecules and how they interact according to physical laws. Such study is applicable to your everyday life and this will be demonstrated repeatedly throughout the year. Topics of study include structure of mater, states of matter, reactions, descriptive

		chemistry, and chemical calculations. Chemistry is a quantitative science that deals with calculations; therefore, a strong math skill set will be helpful in this course. Summer assignment is required.
11, 12	Forensics	Forensic science is an elective course rich in exploration and lab investigation which applies many disciplines of scientific study such as biology/anatomy, chemistry, and physics to solving crimes. This course focuses on the collection, identification and analysis of crime scene evidence. Emphasis will be placed on the methods that link suspect, victim, and crime scene. Laboratory exercises will include finger printing, handwriting analysis, ballistics, blood typing, hair and fiber examination, and DNA analysis. Case studies and current events will be explored.
11, 12	Anatomy & Physiology	**Prerequisite: Biology 1 or Advanced Biology** Anatomy and physiology is an upper level biology course that takes a systematic approach to the study of the human body. Healthy lifestyles and system related diseases and treatments are included. This course is directed to the preparation of students for further health-related education. ***Class is rotated with Botany and will be offered in 2022-2023***
11, 12	Botany	**Prerequisite: Biology or Advanced Biology** This course focuses on the study of the plant kingdom, including plant evolution classification, plant ecology, and domestic plants. This course is an upper-level biology course and will cover plant subject matter in more depth than the basic introduction given in Biology. ***Class is rotated with Anatomy and Physiology and will be offered in 2023-2024***

SOCIAL STUDIES		
GRADE	COURSE	DESCRIPTION
9	Civics and Geography	Civics and Geography is a very interactive course where students will explore the physical and human characteristics of the Earth. This course will review basic skills necessary to succeed in the course and in future social studies courses. Students will pay particular attention to the ways in which people are affected by their physical environment, their culture, government and economics, and the movement of people through immigration and technology. Students will develop organizational skills necessary for success in high school, as well as reading strategies (primary and secondary sources) and persuasive writing techniques.
9	Advanced Civics and Geography	Advanced Civics and Geography is one of the prerequisite courses for any further AP Study (AP World History, AP US History, AP Government and Politics) at RCHS. This course is an accelerated course, focusing on the Physical and Social Geography of the World, Basic Economic Concepts, and an in-depth study of the origins, organization, and function of US Government. This course will assist students in gaining the necessary skills to be advanced readers, writers, and critical thinkers and problem solvers. Students will be required to be organized, complete multiple projects and tasks, and can expect a moderate reading and assessment load each week. Students who complete this course are expected to excel in the required Kentucky Citizenship Exam-required for graduation from a Kentucky High School
9	AP United States Government & Politics	The Advanced Placement course in United States Government and Politics is designed to give students a critical perspective on politics and government. This course involves both the study of general concepts used to interpret United States politics and an examination of the various institution, groups, beliefs, and ideas that make up American politics. The course is taught with college-level texts. Preparation for the A.P. test will be an integral part of the course. ▪ ***Students enrolled in the course will be encouraged to take the AP exam. This is a national test that will give students college credit if they pass the test with a 3 or better on a scale of 1 to 5. However, the students' grade will NOT be dependent on the score of the AP exam.***
10	World History	**Prerequisite: Civics & Geography, Advanced Civics & Geography or A.P. U.S. Government and Politics** World History includes the study of the Renaissance and Reformation, the Age of Exploration, conflicts caused by nationalism, militarism, and imperialism, as well as modern world conflicts. By the end of the course students will understand how humans began to rediscover the ideas of the Classical Age and question their place in the universe. Students will be able to explain how the modern world was shaped by changes in science, thought, and government. Students will further develop their communication skills through reading, persuasive writing and presentation of material that they have learned.
10	AP World History	**Prerequisite: Civics & Geography, Advanced Civics & Geography or A.P. U.S. Government & Politics** Above all, A.P. World history is an opportunity. It is an opportunity for students to earn college credit (upon passing the A.P. Test given at the end of the year). It is an opportunity for students who enjoy an in-depth study of history to gain a better understanding of the world around us. And, it is an opportunity to work alongside like-minded students in a very supportive learning community. The class is modeled after college courses and should serve as a suitable alternative to said courses. With that, the course-load is rigorous and challenging with a focus on advanced writing and reading comprehension skills. Students will be accountable for a broad knowledge of the history of humanity on Earth from 8000 BCE to today. An in-depth reading and writing summer assignment is required for admission to the course. Students who do not complete the assignment by the due date will be removed from the course without exception. ▪ ***Students enrolled in the course will be encouraged to take the AP exam. This is a national test that will give students college credit if they pass the test with a 3 or better on a scale of 1 to 5. However, the students' grade will NOT be dependent on the score of the AP exam.***

11	United States History	**Prerequisite: Civics & Geography or A.P. Govt. & Politics AND World History** United States History includes an in-depth study of the United States rise to the status of world power. Our study includes the importance of our democracy along with the rights and responsibilities of its citizens. We will explore the growth of America within its own borders as well as its relationship to other countries of the world since colonization of the American continent. This course includes various social studies concepts including the influence of geography, economics, government, culture, and the historical events that have shaped our nation and world. Students will demonstrate communication skills in persuasive writing, reading primary and secondary sources and presentation of their own analysis of historical events.
11	AP United States History	**Prerequisite: Civics & Geography or A.P. Govt. & Politics AND World History (or A.P)** Advanced Placement United States History is a challenging, college-preparatory course designed to prepare students to pass the College Board United States History exam given each May. Students will study the major events, patterns, people, and changes in US History from Colonization to the modern day. Students will be required to work at an accelerated pace with increased reading and writing requirements (i.e. reading different historical perspectives and writing/presenting persuasive historical analysis). This course encourages discussion, cooperative learning and study beyond just the classroom. ▪ ***Students enrolled in the course will be encouraged to take the AP exam. This is a national test that will give students college credit if they pass the test with a 3 or better on a scale of 1 to 5. However, the students' grade will NOT be dependent on the score of the AP exam.***
11, 12	Psychology	Psychology is a course that encompasses broad areas of research about human behavior, information that should be available to all high school students who want to understand themselves and their world better. This course includes an in-depth look at the working of the brain, personality theories and theories on behavior. The goal of this course is to create active intellectual and emotional involvement by the student, not only in learning about psychology, but in life as well.
11, 12	Criminal Justice	This course is designed to provide an essential foundation for students who hope to become criminal justice professionals or for those who just hope to become more informed citizens. The course's main purpose is to analyze and evaluate criminal justice policies and decision making. The course should help to eliminate many stereotypes and misinformation, and when students finish this course they should have a solid basis for their opinions. As a senior level elective, the course will be taught at a pre-college level with a moderate to heavy reading load, high expectations for student written work, daily participation and oral presentations. The course will also include the preparation of a formal research paper on a student-selected topic (with instructor approval).
11, 12	Dual Credit US History /HIS 103	**Prerequisites: Must meet EKU eligibility requirements** This **DUAL CREDIT** course explores conflicts between demands of an industrial society and agrarian values; interrelationships between world expressions and American experience. Required of all majors and minors in history. ***Students will earn credit for the high school U.S. History requirement and for College American Civilization (3 college credit hours).***
11, 12	Dual Credit EDP 203 Teaching Exceptional Learners in Regular Classrooms	**Prerequisites: Must meet SCC eligibility requirements** Introduces the characteristics and instructional needs of exceptional learners with an overview of principles, procedures, methods, and materials for adapting educational programs to accommodate the integration of exceptional children in regular classrooms, when appropriate. Requires field experience of a minimum of 12 clock hours in instructor-approved educational agencies. Pre-requisite: EDP 202 with an earned grade of C or higher. Lecture: 3 credits (45 contact hours).

PHYSICAL EDUCATION AND HEALTH

STUDENTS CANNOT ENROLL IN A CLASS MORE THAN ONCE DURING THE YEAR

GRADE	COURSE	DESCRIPTION
9	Health & Physical Education 1	Health/P.E. 1 is a **required** course for freshmen. It provides an opportunity for acquiring life skills necessary to live more productive and healthier lives, and to address the physical needs and interests of students through movement, physical skills, and individual and team sports and games. The course is designed to focus on promoting good health habits that can reduce the risk of disease and illness and to instill sound principles of healthy living throughout the students' lives.
10, 11, 12	Physical Education 2	**Prerequisite: Physical Education I (with a grade of A, B or C)** Physical Education II is an **elective** course for sophomores, juniors, and seniors. It is a continuation of P.E. 1. Emphasis will be placed on advanced skill development, rule knowledge, and strategy acquisition through team sports.
10, 11, 12	Strength Training and Conditioning	**Prerequisite: Physical Education I** This course is designed to give students the opportunity to learn fitness concepts and conditioning techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of strength training, aerobic training, and overall fitness training and conditioning.
10, 11, 12	Advanced Strength Training and Conditioning	**Prerequisite: Students must be involved in some type of athletic training program (weightlifting, conditioning) through extra-curricular activities** Advanced Strength Training and Conditioning is an **elective** course designed to help the student achieve a higher degree of physical strength and stamina through a series of weightlifting, agility and conditioning sessions.

WORLD LANGUAGES		
GRADE	COURSE	DESCRIPTION
	Spanish 1	In Spanish I, you will learn to communicate about yourself, your friends, your family, your school, and other parts of your day-to-day life such as shopping or sports. At the beginning, you will use memorized vocabulary and sentence patterns, but as time passes, you will be able to combine words and phrases together to form more complex sentences and paragraphs. During the class, you will need to listen, speak, read, write, act, and sing in Spanish. You will also be introduced to some of the traditions, customs, beliefs, and cultural contributions of the Spanish-speaking world in order to gain a better understanding and appreciation of how they affect you. ***It is strongly suggested that students with weak English skills wait until their junior or senior year to take foreign language.**
	Spanish 2	**Prerequisite: Spanish I** Spanish II builds on the cultural knowledge, vocabulary, and grammatical structures learned in Spanish I. Just like in Spanish I, you will need to listen, speak, read, write, act, and sing. In Spanish II, you will be able to talk about more things in greater depth using more specific vocabulary and increase your ability to understand what others say, even when you don't know all of the words. Less English will be used in the classroom. You will learn vocabulary and structures that would be useful in situations like working in a restaurant or explaining how to use a computer. You will learn how to give commands, how to use a variety of irregular verbs, and how to describe actions from the past.
	Spanish 3	**Prerequisite: Spanish I and Spanish II** Spanish III builds on Spanish II and prepares students to perform interpersonal, interpretive and presentational communicative tasks within the intermediate low to intermediate mid-range; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.
	Spanish 4	Prepares students to: perform interpersonal, interpretive and presentational communicative tasks within the intermediate range on the ACTFL Proficiency scale; interpret, exchange, and present, information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas; and understand the relationship among the products, practices and perspectives of other cultures. In addition, students develop insight into their own language and culture.

In addition to the RCHS Graduation Requirements listed above, the following statement is taken from a document about Pre-College Curriculum Requirements from the Kentucky Department of Education.

"2 units of a single world language or demonstration of a world language proficiency"

While many colleges are not holding students to this 2 credit requirement for the admissions process, some are. Additionally, some of the colleges that don't request the foreign language credits for admissions may still require that students take a foreign language in college. It simply depends on the college and the program.

PROJECT LEAD THE WAY		
GRADE	COURSE	DESCRIPTION
9, 10, 11, 12	Engineering I (Introduction to Engineering Design)	Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software.
10, 11, 12	Engineering II (Principles of Engineering)	**Prerequisites: IED** Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. In Principles of Engineering (POE) Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.
10, 11, 12	Digital Electronics	**Prerequisites: IED or POE** From smartphones to appliances, digital circuits are all around us. This Digital Electronics (DE) course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.
11, 12	Aerospace Engineering	**Prerequisites: IED and either POE or DE** In Aerospace Engineering (AE), students are introduced to the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. ***Class is rotated with Civil Engineering and Architecture and will be offered in 2023-2024***
11, 12	Civil Engineering and Architecture	**Prerequisites: IED and POE or DE** In PLTW Civil Engineering and Architecture (CEA), students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architectural design software. ***Class is rotated with Aerospace Engineering and will be offered in 2022-2023***

COMPUTER SCIENCE

PROJECT LEAD THE WAY COMPUTER SCIENCE

Building a Strong Foundation for College and Career

Whether building apps to meet client needs or exploring cybersecurity, PLTW Computer Science engages students in interdisciplinary activities that not only build knowledge and skills in computer science, but also empower students to develop essential skills such as problem solving, critical and creative thinking, communication, collaboration, and perseverance. The program's courses empowers students with in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they choose.

GRADE	COURSE	DESCRIPTION
9, 10, 11, 12	Computer Science Essentials	Students will us visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create aps and develop websites and learn how to make computer work together to put their design in to practice. Students will apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topic and problems important to them. Computer Science Essentials helps students to create a strong foundation to advance to Cybersecurity, AP Computer Science Principles, AP Computer Science A, and beyond.
10, 11, 12	Cybersecurity	**Prerequisite: CSE** Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.
10, 11, 12	AP Computer Science Principles	**Prerequisites: CSE, Successful completion of Algebra 1** Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSP helps students develop programming expertise and explore the workings of the internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. **The course curriculum is a College Board approved implementation of AP CS Principles.**
11, 12	AP Computer Science A	**Prerequisites: A.P. CSP, Successful completion of Algebra 2 or enrolled in Algebra 2** CSA focuses on further developing computational thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. **The course curriculum is a College Board approved implementation of AP CSA.**

COMPUTER SCIENCE

Computer and Information Technologies
NETWORK SECURITY

GRADE	COURSE	DESCRIPTION
9, 10, 11, 12	Computer Hardware and Software Maintenance	This course presents a practical view of computer and client operating systems. It also covers computer hardware components, troubleshooting, repair, and maintenance; operating systems interfaces and management tools; networking components; computer security; and operational procedures. Students spend at least 20 hours of programming and applying learned concepts through programming.
10, 11, 12	Introduction to Networking Concepts	**Prerequisite: Computer Hardware/Software Maintenance** This course introduces technical level concepts of non-vendor specific networking including technologies, media, topologies, devices, management tools, and security. Provides the basics of how to manage, maintain, troubleshoot, install, operate, and configure basic network infrastructure. Students spend at least 20 hours of programming and applying learned concepts through programming.
11, 12	Security Fundamentals	**Prerequisite: Intro to Networking Concepts** Introduces basic computer and network security concepts and methodologies. Covers principles of: security; compliance and operational security; threats and vulnerabilities; network security; application, data, and host security; access control and identity management; and cryptography.
12	Information Technology Internship	Internship for CTE courses provide supervised work-site experience for high school students. Internship experiences consist of a combination of classroom instruction and field experiences. A non-paid internship affects those students who participate on a short-term basis. This course requires an Application, Resume and an Interview before close of prior year to participate. *Contact Mr. Shawen if Interested.*

COMPUTER SCIENCE

DUAL CREDIT OPPORTUNITY

GRADE	COURSE	DESCRIPTION
11, 12	DPT 100 Introduction to 3D Printing Technology	Provides an introduction to the world of additive manufacturing, or more commonly known as three-dimensional printing (3DP), and its applications in conjunction with computer technology. Introduces topics including computer hardware and software, 3D printing technology, file management, the Internet, email, the social web, sustainability, security, and computer and intellectual property ethics. Presents basic use of applications, programming, systems, and utility software. Lecture: 2 credit hours (30 contact hours). Lab: 1 credit hour (30 contact hours).

FAMILY AND CONSUMER SCIENCES		
GRADE	COURSE	DESCRIPTION
9, 10	FCS Essentials	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.
10, 11, 12	Relationships	This course assists students to develop self-understanding, understanding of others, interpersonal skills, awareness of other's needs, and physical, 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.
10, 11, 12	Money Skills	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. **Course taught in math department**
9, 10, 11, 12	Parenting	This course is designed to educate students in parenting and care giving 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).
10, 11, 12	Early Lifespan Development	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).
11, 12	Child Development Services 1	**Prerequisites: Early Lifespan Development** 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 childcare establishments. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA).
12	Child Development Services 2	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 childcare establishments, preschool centers, and other early childhood settings. Leadership development will be provided through the Family, Career and Community Leaders of America (FCCLA). **Co-op Guidelines will apply. THIS IS NOT A PAID INTERNSHIP.** **Personal transportation is required.**

AGRICULTURE		
GRADE	COURSE	DESCRIPTION
9, 10	Principles of Agricultural Science and Technology	This course provides an introduction to different parts of the agriculture industry (animal science, plant science, wildlife conservation, farm and home safety, tractor driving, recordkeeping, and agricultural mechanics) and leadership development (speaking skills and parliamentary procedure). The FFA is an intra-curricular student organization/club that goes with all agriculture classes. There will be opportunities for the students/FFA members to travel, compete and win prize money on the local, regional and state levels.
10	Agri-Biology	**Prerequisite: Principles of Agricultural Science and Technology (Recommended)** Content includes cell structure and anatomy, behavior of organisms, basic heredity principles, biological change, and interdependence of living systems, and matter, energy and organization in living systems. Practical agricultural concepts will connect scientific inquiry and concept understanding. Content may be enhanced by appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have an agricultural experience program. **Agri-Biology will meet Biology I requirement.**
10, 11, 12	Agricultural Communications	**Prerequisite: Principles of Agricultural Science and Technology (Recommended)** This course develops an understanding of fundamental skills necessary to successfully and effectively communicate. Provides guided practice and applied experience utilizing various styles of communication including oral, written, and electronic communications. Techniques of communications will include: traditional print media, photography, videography, computer program applications, and Internet usage including e-mail. Leadership development will be provided through FFA which is an intra-curricular student organization/club that goes with all agriculture classes. There will be opportunities for the students/FFA members to travel, compete and win prize money on the local, regional and state levels.
11, 12	Small Power Equipment	**Prerequisite: Principles of Agricultural Science and Technology (Recommended)** This course is designed to develop skills in part and tool identification, maintenance, repair, trouble shooting, and operation of small engines. Students will disassemble and reassemble a small gasoline engine. Leadership development will be provided through FFA which is an intra-curricular student organization/club that goes with all agriculture classes. There will be opportunities for the students/FFA members to travel, compete and win prize money on the local, regional and state levels.
11, 12	Agricultural Structures and Design	**Prerequisite: Principles of Agricultural Science and Technology (Recommended)** Prepares students to construct and maintain agricultural structures and equipment. Basic agricultural mechanics 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, which is an intra-curricular student organization/club that goes with all agriculture classes. There will be opportunities for the students/FFA members to travel, compete and win prize money on the local, regional and state levels. ***This class is rotated with Ag Construction Skills and will be offered in 2023-2024***
11, 12	Agricultural Construction Skills	**Prerequisite: Principles of Agricultural Science and Technology (Recommended)** This course prepares students to evaluate, design and construct agricultural structures. Students learn to design, evaluate and interpret construction plans, calculate a bill of materials, and build two 10' x 16' storage buildings. Leadership development will be provided through FFA which is an intra-curricular student organization/club that goes with all agriculture classes. There will be opportunities for the students/FFA members to travel, compete and win prize money on the local, regional and state levels. ***This class is rotated with Ag Structures & Design, and will be offered in 2022-2023***
10, 11, 12	Animal Science	**Prerequisite: Principles of Agricultural Science and Technology (Recommended)** Animal Science develops basic knowledge and skills relating to livestock identification, selection, nutrition, reproduction and genetics, health management, growth and development, digestive physiology, anatomy, meat science and overviews of the dairy, poultry, equine, beef, sheep, swine, and aquaculture industries. Leadership development will be provided through FFA which is an intra-curricular

		student organization/club that goes with all agriculture classes. There will be opportunities for the students/FFA members to travel, compete and win prize money on the local, regional and state level.
11, 12	Veterinary Science	This course examines basic principles of veterinary science, including breeds, biology, veterinary tools, parasitology, office management, animal control, and basic clinical exam techniques for large and small animals. Further, the purpose of this course is to provide advanced students in agriculture with an introduction to the basic principles of veterinary science. This requires students to understand the biology of both large and small breeds of animals, as well as specifics related to the area of veterinary medicine. This class will build a foundation for those students interested in the area of veterinary science.
10, 11, 12	Greenhouse I	**Prerequisite: Principles of Agricultural Science and Technology (Recommended)** Plant and Land Science develops basic scientific knowledge and skills pertaining to management of the land and its effects on food and fiber production, the environment, and the quality of life. The relationship of land to plant growth will be emphasized. Plant composition, reproduction, growth, and current biotechnological advances will be included. Content may be enhanced with appropriate computer applications. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.
11, 12	Greenhouse II	**Prerequisite: Principles of Agricultural Science and Technology, Agri-Biology (Recommended)** 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. Content may be enhanced with appropriate technology. Leadership development will be provided through FFA. Each student will be expected to have a supervised agricultural experience program.
10, 11, 12	Environmental Technology	This course is an intermediate scientific study of environmental technology. It is designed to develop an awareness of wildlife, forestry, aquatic structures, soil, renewable and non-renewable energy systems. Students will learn how to manage the various parts of the environment and create a plan to improve these areas. Content will be enhanced with appropriate hands-on scientific laboratory activities, field experimentation, community development projects, and occupational development. Leadership development will be provided through FFA (Future Farmers of America).
12	Principles of Teaching Agriculture Education	**Prerequisite: Principles of Agricultural Science and Technology and Agricultural Communications (Required AND consent of the instructor)** This course provides opportunities for students with an interest in teaching agriculture to develop skills, strategies, and techniques used for instruction at secondary grade levels. Students will gain work experience in classrooms with certified agriculture teachers as part of their course work. In addition, students will attend school and community meetings, participate in SAE visits, and observe teachers in other content areas. Other components include the development of a four year post-secondary plan, salaries and benefits of an agriculture teacher, and develop a resume and cover letter. Leadership experiences will be provided through the student organization, FFA which is an intra-curricular student organization/club that goes with all agriculture classes. There will be opportunities for the students/FFA members to travel, compete and win prize money on the local, regional and state level.

ARTS AND HUMANITIES		
GRADE	COURSE	DESCRIPTION
11, 12	History of Visual and Performing Arts	**Prerequisite: English I** History of Visual and Performing Arts is a **required**, one-credit class that looks at how history and culture impact the creation and appreciation of a variety of art forms. It reminds us that while we are uniquely human, even our means of artistic expression may be shaped by the times in which we live. ****Taking one class in the Arts and Humanities Department will meet the History and Appreciation of Visual/Performing Arts credit state requirement.****
MUSIC		
9, 10, 11, 12	General Chorus	This course teaches music through group and individual performance. Students will learn proper choral techniques that enhance and care for their voices which contribute to a united choral sound. The students will continue building music skills and knowledge based on the music elements learned in previous music classes and experiences. Students will understand and be able to identify musical styles from the Music History time periods. This group also performs and competes at the local, regional and state levels.
9, 10, 11, 12	Honors Choir	**Prerequisite: General Chorus or previous group singing experience** This course teaches music through group and individual performance. Students will learn proper choral techniques that enhance and care for their voices which contribute to a united choral sound. The students will continue building music skills and knowledge based on the music elements learned in previous music classes and experiences. Students will understand and be able to identify musical styles from the Music History time periods. This group also performs and competes at the local, regional and state levels. *This is an auditioned group, which means each member must pass an audition process according to a rubric and will be auditioned the semester before the new year begins. This group will involve a higher level of dedication and will be required to perform on a higher level as well as attend more performances.*
9, 10, 11, 12	Concert Band	**Prerequisite: Middle School Band grades 6th-8th** The goal of the instrumental music program is to provide the student with a basic knowledge of musical symbols, literature from various periods and cultures, and advanced performance technical skills on each student's perspective instrument, while fostering a sense of leadership, cooperation, responsibility, and community involvement. Concert Band includes a variety of concert performances including large group, small ensembles, and solo performance opportunities. Pep Band, Jazz Band, and various instrumental ensembles are offered as part of the course work for the year as well. **Marching Band will be a voluntary after school activity, and will include learning and performing a full competitive marching show for halftime at football games and marching competitions as well as marching in local parades through the holiday season.*
9, 10, 11, 12	Beginning Percussion Methods	This performance in drumming class is for students who have little to no musical experience and who have an interest in learning to read music and perform on a variety of drums and percussion instruments. The class invites you to discover and explore the rhythms and traditions of world cultures in a supportive learning environment that engages you in self-discovery and learning through experience. The objective of the class is to cultivate musical skills specific to percussion as they pertain to technique, musicianship, and reading in a group learning environment.
VISUAL ARTS		
9, 10, 11, 12	Art 1	Art I is a basic art class with exploratory activities in all the art mediums. This provides beginning artists an introduction to improve their skills in a wide range of art applications. They will be given instruction to the elements of art and principles of design. In addition, they will be learning about different periods of Art History to increase their artistic and cultural awareness. All activities in the art curriculum are aligned to state and national standards.
10, 11, 12	Art 2	**Prerequisite: Art I** Art II is the second of four courses in art available to the students. This class is intended to give instruction in the basic visual art areas and bring out the individual interest of a student. The purpose is to give a more specific course than general to continue the development that

		began in Art I. Activities will be incorporated that might help students make connections between ideas and issues being taught in other subject areas.
11, 12	Art 3	**Prerequisite: Art I & II** Art III is an advanced art class, which require Art I and Art II classes to precede it. The class is set up so individual projects are encouraged to further discover the young artist's main focus and interest in art. With this in mind, the curriculum is heavily tailored to meet the needs of the types of gifted students who enroll in it.
10, 11, 12	Art 4 Art Portfolio	**Prerequisite: Art I, II & III** Art IV is a course designed to give students who have demonstrated a sincere desire to succeed within the Visual Arts as a forum for their unique abilities. Study is often independent and geared toward greatly improving the artist in areas where they are most talented. Projects are related to real life situations they would encounter in the career fields of art. Expression is encouraged so society and life experiences are reflected throughout the art created.
DRAMATIC ARTS		
9, 10, 11, 12	Drama	This course teaches acting through group and individual performance alongside the production elements it takes to produce a performance. Students will learn acting techniques and production roles and responsibilities, and every student has an on or off-stage role in the productions. This group performs at least one large production a year with other smaller performances for various age groups and community members. Students interested in on AND off-stage roles should apply; previous performance, acting, and/or singing experience is welcomed and needed!

MEDIA & COMMUNICATIONS/MISC.		
11, 12	Yearbook/ Journalism	**Students must complete an application to be on the Yearbook Staff, and must receive a letter of invitation in order to enroll in this course** Yearbook/Journalism is a year-long class focusing on the full production of the RCHS Yearbook as well as emphasizing skills and knowledge in the area of journalism and communications. Students will work with theme development, layout design, copy writing, organization, photo taking, editing, etc. to produce the RCHS yearbook. Students will also conduct interviews, write in a variety of journalistic forms, discuss editorial positions, and help and produce media using various technological avenues. Production of the RCHS yearbook will be one of various products that are developed and created throughout the course.
12	Library Practicum	**Students must have a letter of invitation from Librarian to enroll in this course** Library Practicum is a class for selected students to practice customer service skills in the library. Knowledge of books, authors, technology, and research skills is expected. Students will assist serving patrons with various requests in addition to fulfilling written requirements.
12	Office/Teacher Aide	**Students must meet qualifications to enroll in this course** **Students must complete an application to be considered for a TA position** This course is designed to provide students with opportunities to grow as people and to learn to work with others. Throughout the year, students will get involved in activities within the school so that they may develop academically as well as socially. Research has shown that students who are involved at their school do well academically as their motivation and time management skills improve. Teacher assistants will help teachers by performing a variety of tasks. **TAs CANNOT grade student work or work in Infinite Campus.**

JUNIOR RESERVE OFFICER'S TRAINING CORPS

All cadets are required by Army Regulation to wear the cadet uniform once a week; cadets will dress out for Physical Training on Monday and Friday. In order to pass the course, cadets will score 75% or higher in leadership and physical training. Scores less than 75% will result in disenrollment as a cadet and loss of consideration for the next level

GRADE	COURSE	DESCRIPTION
9, 10, 11, 12	Introduction to JROTC (LET-1)	**Prerequisite: None (Counts for Health/Physical Education)** This course introduces students to the United States Junior Reserve Officers Training Corps (JROTC) program, and its mission, which is to motivate young people to be better citizens. To be successful in this course you need to develop some self-discipline and work hard in achieving basic citizenship skills. This course uses military skills to teach self-discipline, communication, leadership, proper wear of the military uniform, physical fitness, citizenship traits, and many other important tasks necessary in everyday jobs skills. Overall objectives of the basic course are to encourage students to be successful in school, promote high school graduation, and develop a solid foundation for a career.
10, 11, 12	JROTC (LET-2)	**Prerequisite: Introduction to JROTC I (LET-1)** The second year of JROTC provides students with more details about leadership opportunities both in and out of the classroom. The day to day instruction will provide opportunities to advance in rank and knowledge within the Rocket Battalion. This course will concentrate on communication, leadership, physical fitness, first aid, map skills, citizenship skills, The Bill of Rights and the U.S. Constitution, service learning, and technology awareness.
11, 12	JROTC 3 (LET-3)	**Prerequisite: JROTC I (LET-1) and JROTC (LET-2)** The third year of JROTC will increase students' awareness of self-responsibility, as well as what is expected of new cadets just entering the JROTC program. Enhanced leadership skills will prepare students for life during and beyond high school. Students will continue to learn techniques of communication, platoon drill, leadership, foundations for success (writing, speeches, anger management, and conflict resolution), career planning, financial planning, and decision making skills.
12	JROTC 4 (LET-4)	**Prerequisite: JROTC I (LET-1), JROTC II (LET-2), and JROTC III (LET-3)** The fourth year of JROTC will put the student in the highest leadership positions requiring them to make timely and well thought out decisions to keep the Battalion on the proper course. This course is self-taught and paced using a programmed text that contains case studies, vignettes, and practical exercise. This course allows the LET 4 students to perform their assigned command or staff duties, act as a class instructor for selected subjects such as leadership labs and/or act as assistant class instructor for subjects such as first aid, map reading, etc.
10, 11, 12	JROTC Leadership Labs 1&2 (LET 2-4)	**Prerequisite: Introduction to JROTC 1 (LET 1), must also be in one of the year-long JROTC Classes** This course is designed for upperclassmen who want to develop their leadership and military skills in a performance based environment. Course work centers around the competitive events and leadership opportunities our cadets engage in on a weekly basis. A special emphasis will be given to the physical condition of each student as they work to improve scores on the Presidential Fitness Test. JROTC students holding staff positions will be able to work in a team environment to accomplish operational requirements. This will give the advanced students the time to plan properly for all JROTC activities and the ability to rotate leadership roles.

HEALTH SCIENCES-RATC		
GRADE	COURSE	DESCRIPTION
LEVEL 1 COURSE		
9, 10	Principles of Health Science	This course is an orientation to the health care cluster consisting of four career majors: Nursing, Medicine, Dentistry, and Allied Health. It is also designed to develop and enhance an understanding of the roles and responsibilities of each career major area. Communication, study and leadership skills will be emphasized as the students learn about the health care industry, health care economics and available career opportunities. Upon successful completion of this course, the student will be able to focus on a career major path and make informed decisions regarding choices for continuing education and/or employment. *Prerequisite for MNA 100 Medicaid Nurse Aid, HEA 198 Practicum I (Health), HEA 199 and HEA 299 Cooperative Education II (Health)*
LEVEL 2 COURSES *Successful completion of Level 1 is REQUIRED*		
11	Body Structures and Functions (Anatomy & Physiology)	Body Structures and Functions is designed to provide knowledge of the structure and function of the human body with an emphasis on normalcy. The course includes interaction of all body systems in maintaining homeostasis and promotes an understanding of the basic human needs necessary for health maintenance. Explain the basic principles of inorganic and organic chemistry as they apply to physiological processes.
11	Medical Terminology	This course is a study of medical terms and their origins. Emphasis is given to the correct interpretation of medical terms and their application in the medical profession.
11	Emergency Procedures for Healthcare Professionals	**CPR for Healthcare Professionals** Cardiopulmonary resuscitation (adult/infant/child) is a course designed to teach current emergency techniques relative to cardiac and/or respiratory arrest as put forth by the American Heart Association, National Safety Council or American Red Cross. The American Heart Association, National Safety Council or American Red Cross standardized course qualifies a student for certification of cardiopulmonary resuscitation.
LEVEL 3 COURSES *Successful completion of Level 2 is REQUIRED*		
12	Medical Laboratory Aid (Phlebotomist)	This course consists of a combination of classroom instruction and clinical instruction on collecting, transporting, and processing blood and urine specimens for analysis. Student must complete and meet the eligibility requirements of the National Health Career Association in order to take the national certification exam.
12	Medicaid Nurse Aide	This course is designed to provide knowledge and skills for nurse aids to assume the role and responsibility required in long-term care. The focus of this course is communication, infection control, safety, residents' rights, and basic nursing skills. Upon successful completion of this course you are qualified to take the Kentucky Medicaid Nurse Aide state exam for certification.
12	Internship	**Job Availability and Instructor's Discretion** The practicum provides supervised on the job work experience related to the students' education objectives. Students participating in the practicum do not receive compensation.
12	Pharmacy Technician	**You must have teacher recommendation to take this class**. ***Cost of class: $300.00*** This online course includes components on PCTB certification, federal rules and regulations on controlled substances, medical review on the classifications of drugs, dosage calculations, aseptic technique and pharmacy operations. Upon successful completion of the quizzes and exams there is a clinical component of supervised on the job work experience. Upon successful completion of this course you are qualified to take the national certification exam for pharmacy technician.

12	Co-Op	**Job Availability and Instructor's Discretion** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op education program receive compensation for their work.
12	Allied Health Core Skills	Allied Health core Skills is designed to provide knowledge, concepts and psychomotor skills necessary for gainful employment as an entry-level health care worker. Assisting students in selecting a career major, classroom instruction and educational objectives are combined with learning experiences, observations, and a work-based learning opportunity such as internship, shadowing, or clinical rotation. This course is designed for students not enrolled in the Medicaid Nurse Aide Program.

BUSINESS/OFFICE TECHNOLOGY-RATC

Two Business/Office Technology courses,* Multi-Media Publishing and Webpage Design, *will be offered as stand-alone courses for the 2020-2021 school year. Students in grades 9-12 will be able to sign up for these courses with no pre-requisite.)

GRADE	COURSE	DESCRIPTION
LEVEL 1 COURSE		
9, 10, 11 & 12	Intro to Computer Software (Digital Literacy)	Students will use a computer and application software including word processing, presentation, database, spreadsheets, internet, and email to prepare elementary documents and reports. The impact of computers on society and ethical issues are presented. Leadership development provided through FBLA.
LEVEL 2 COURSES *Successful completion of Level 1 is REQUIRED*		
10	Multimedia Publishing	This hands-on course applies publishing and presentation concepts through the development of sophisticated business documents and projects. These documents include, but are not limited to, tri-fold brochures, manuscripts, reports, bi-fold programs, catalogs, newsletters, flyers, business forms, graphs, web pages, on-screen presentations, and video productions. Equipment such as scanners, digital cameras, video cameras, and color laser printers, may be utilized in creating the documents. Formatting, editing, page layout, and design concepts are taught. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem-solving techniques cooperative learning, and interpersonal skills. Leadership development will be provided through FBLA.
11	Business Communication	Business Communication is the study of written, oral, and electronic communication in a business environment. Emphasis is on writing letters, preparing and orally presenting business reports, using the telephone in business, electronic transfer of information, using business information resources, listening and interpreting, and developing business messages. Leadership development provided through FBLA.
10	Ethical Leadership	Ethical Leadership is a principles-based ethics course introducing students to key leadership ethical knowledge and skills, including integrity, trust, accountability, transparency, fairness, respect, rule of law and viability. Throughout the course, students apply ethical principles to contemporary, real world situations that teens and young adults often encounter in school, home, with friends and in entry-level job positions. They examine the concept of ethical leadership, and strengthen their leadership and ethical decision-making skills through the planning and implementation and evaluation of at least one class service-learning project.
11	Marketing Principles	This course provides a foundation for further study in marketing. Students study economic functions at work in the market place, marketing functions including purchasing, pricing, and distribution functions. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, and promotion. Both marketing and employment skills learned will improve and increase the chance of successful transition into the world of work. Leadership development will be provided through DECA activities and competitive events.
LEVEL 3 COURSES *Successful completion of Level 2 is REQUIRED*		
12	Office Administration	This course is designed to provide students an advanced-level experience with practical applications through hands-on instruction. Course content will include understanding of carious hardware, software, operating systems, care/operations, administrative applications, and employability skills. The software includes advanced business applications using word processing, presentation, spreadsheets, database management, desktop publishing, and electronic communication. Leadership development will be provided through FBLA. Upon completion of this course, a student will be ready to take the core level tests for MOS Certification and/or the Administrative Support Skill Standard Assessment.

12	Personal Finance	This course is designed to provide students with the knowledge and skills to manage one's financial resources effectively for lifetime financial security. Topics include economics, money in the economy, budgeting, credit, consumer rights, investments and retirement planning. A correlation to the math content in the program of studies was used in developing this course to count as a 4th math elective. Leadership development will be provided through FBLA/DECA.
12	Advanced Multimedia Publishing	This hands-on course applies advanced web design, publishing and presentation concepts through the development of sophisticated documents and projects, which include, but is not limited to web sites, web databases, web movies, video editing and production, and television productions. This course is designed around the learning goals of the students and is project based. Students will complete advanced projects agreed upon with the instructor utilizing hardware and software available. Formatting, editing, layout and design concepts are reviewed and reinforced. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem-solving techniques, cooperative learning, and interpersonal skills. Leadership development will be provided through FBLA.
STAND ALONE COURSES		
10, 11 & 12	Multimedia Publishing	This hands-on course applies publishing and presentation concepts through the development of sophisticated business documents and projects. These documents include, but are not limited to, tri-fold brochures, manuscripts, reports, bi-fold programs, catalogs, newsletters, flyers, business forms, graphs, web pages, on-screen presentations, and video productions. Equipment such as scanners, digital cameras, video cameras, and color laser printers, may be utilized in creating the documents. Formatting, editing, page layout, and design concepts are taught. Distribution ready publication standards are applied to all projects. Students will develop communication skills, problem-solving techniques cooperative learning, and interpersonal skills. Leadership development will be provided through FBLA.
9, 10, 11 & 12	Promotional Applications & Media	This course is designed to provide students with hands-on applications of running a school based industry simulated experience. Students will apply basic fundamentals of advertising using digital and print media. This course is based on the business and marketing core that includes communication skills, economics, financial analysis, product/service management and promotion. Leadership development will be provided through FBLA.

AUTOMOTIVE TECHNOLOGY/TRANSPORTATION-RATC		
GRADE	COURSE	DESCRIPTION
LEVEL 1 COURSE SECTION A		
9, 10	Automotive Maintenance and Light Repair/Basic Automotive	These courses introduce the student to the principles, theories, and concepts of automotive technology, and include instruction in the maintenance and light repair of internal combustion engine repair. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task, including proper care and cleaning of customers vehicles. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders.
LEVEL 2 COURSES SECTIONS B, C *Successful completion of Level 1 is REQUIRED*		
11	Automotive Maintenance and Light Repair/ Intermediate Automotive	These courses introduce the student to the principles, theories, and concepts of automotive technology, and include instruction in the maintenance and light repair of brake systems, suspension and steering systems, automatic and manual transmissions/transaxles and engine performance systems. In all areas, appropriate theory, safety, and support instruction will be taught and required for performing each task, including proper care and cleaning of customers vehicles. The instruction will also include identification and use of appropriate tools and testing/measurement equipment required to accomplish certain tasks. The student will also receive the necessary training to locate and use current reference and training materials from accepted industry publications and resources, and demonstrate the ability to write work orders.
LEVEL 3 COURSES SECTIONS D & SPECIAL PROBLEMS A & B *Successful completion of Level 2 is REQUIRED*		
12	Automotive Maintenance and Light Repair/ Advanced & Special Problems in Automotive Technology	Automotive Maintenance and Light Repair Section D introduces the student to the principles, theories, and concepts of automotive technology, and include instruction in the maintenance and light repair of vehicle electric and electronic systems. The Special Problems courses are designed to enhance students' understanding of shop situations and problems that arise when dealing with live work. It expands on the task lists that have already been taught to students in previous Automotive Technology courses. The instructor will teach students how to deal with real world problems that arise when repairing automobiles subjected to various types of customer road use.

ELECTRICAL TECHNOLOGY/CONSTRUCTION-RATC		
GRADE	COURSE	DESCRIPTION
LEVEL 1 COURSE		
9, 10	Electrical Construction 1	This course involves the study of procedures used in construction wiring. Designed to give hands-on experience with electrical materials and equipment in construction wiring.
LEVEL 2 COURSES *Successful completion of Level 1 is REQUIRED*		
11	Circuits 1 / Lab	Introduces the theory of electricity and magnetism, and the relationship of voltage, current, resistance, and power in electrical circuits. Circuit analysis techniques are stressed. Circuits are analyzed using Ohm's Law, and various network theorems. The basic lab course allows the student to verify basic theory by making measurements in working circuits.
11	Electrical Construction 2/Lab	This course expands the knowledge and skills needed to work in commercial and industrial construction wiring. This course will provide hands-on experience needed to be successful in the construction industry.
LEVEL 3 COURSES *Successful completion of Level 2 is REQUIRED*		
12	Industrial Safety	This course provides practical training in industrial safety. The students are taught to observe general safety rules and regulations, to apply worksite and shop safety rules, and to apply OSHA (Occupational Safety and Health Administration) regulations. Students have the opportunity to obtain their OSHA 10 certification when this course is completed.
12	NEC (National Electric Code)	Emphasizes the importance of the National Electrical Code as it applies to electrical installations, electrical safety issues, prevention of fire due to the use of electrical energy, prevention of loss of life and property from the hazards that might arise from the use of electrical energy, and proper selection of electrical equipment for hazardous and non-hazardous environments. A learning resource in the preparation for electrical licensing examinations.
12	Basic Troubleshooting	This course explores the science of troubleshooting and the importance of proper maintenance procedures; how to work well with others, aids in communication, and trade responsibilities; examines actual troubleshooting techniques, aids in troubleshooting, and how to use schematics and symbols; focuses on specific maintenance tasks such as solving mechanical and electrical problems, breakdown maintenance, and the hows and whys of planned maintenance.
12	Electrical Motor Controls 1/Lab	This course addresses the diversity of control devices and applications used in industry today. The laboratory provides practical experience in the use of control devices and their application. Safety and electrical lockouts are also included.
12	Electrical Co-Op	**Job Availability and Instructor's Discretion** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

WELDING TECHNOLOGY-RATC		
GRADE	COURSE	DESCRIPTION
LEVEL 1 COURSE		
9, 10	Oxy Fuel Systems	This class introduces the student to the art and science of welding. Students learn to prepare the equipment and to perform basic welding and cutting operations. Additionally, students will practice safety of self and equipment, measurement, and math skills will be addressed.
LEVEL 2 COURSES *Successful completion of Level 1 is REQUIRED*		
11	Gas Metal Arc Welding	This course is designed to teach students the identification, inspection, and maintenance of GMAW machines; identification, selection and storage of GMAW electrodes; principles of GMAW; and the effects of variables on the GMAW process. Theory and application of related processes such as FCAW, Pulsed GMAW, and metallurgy are also included. This course also teaches the practical application and manipulative skills of Gas Metal Arc Welding and the proper safety precautions needed in this process. Both ferrous and non-ferrous metals will be covered, as well as various joints on plate in all positions.
11	Shielded Metal Arc Welding	This course is designed to teach students the identification, inspection, and maintenance of SMAW electrodes: principles of SMAW; the effects of variables on the SMAW process to weld plate and pipe; and metallurgy. This course also provides laboratory experiences in which the student acquires the manipulative skills to perform fillet welds in all positions.
LEVEL 3 COURSES *Successful completion of Level 2 is REQUIRED*		
12	Print Reading for Welders	This course provides a study of occupationally specific prints for welders. Advanced study of multi-view drawings, assembly drawings, datum dimensions, numerical control drawings, sheet metal prints, casting and forgings, instrumentation and control charts and diagrams, working drawings, geometric dimensioning and tolerancing and use of reference materials and books are included. Occupational specifics including welding drawings, symbols, joint types, grooves, pipe welding symbols, testing symbols and specification interpretations are stressed. This course also provides students with practice fabricating from blueprints. Students will read and fabricate from detail prints, control distortion during fabrication, and follow the proper sequence in welding a fabricated part. Students will use welding symbols and study weld sizes and strengths.
12	Gas Tungsten Arc Welding	This course is designed to teach students the identification, inspection, and maintenance of GTAW machines; identification, selection and storage of GTAW electrodes; principles of GTAW; the effects of variables on the GTAW process; and metallurgy. This course also teaches the theory and application of Plasma Arc Cutting. Students will also learn the theory and practice of Pulsed GTAW. The lab experience teaches the necessary manipulative skills needed to apply the Gas Tungsten Arc process on various joint designs on plate, with both ferrous and non-ferrous metals. Plasma Arc cutting is included.
12	SMAW Groove Welding	This course provides SMAW experience in which students acquire the manipulative skills to do groove welds in all positions with backing.
12	Welding Co-Op	**Job Availability and Instructor's Discretion** Co-op provides supervised on-the-job work experience related to the student's educational objectives. Students participating in the Co-op Education program receive compensation for their work.

DUAL CREDIT INFORMATION

We will be offering a variety of dual credit options next year for juniors and seniors through Eastern Kentucky University, Somerset Community College, and possibly Murray State University. The state of Kentucky provides scholarship money for students to complete up to SIX hours of dual credit coursework while in high school. Additionally, a Work Ready Scholarship is available (up to six hours per year) for students taking certain courses at Rockcastle Area Technology Center. Rockcastle students are very fortunate to attend school in a district that has agreed to pick up the cost for any additional courses taken next year above and beyond what scholarship money covers.

NOTE: Any information pertaining to dual credit is subject to change (EKU and/or Somerset Community College may change requirements, classes may not "make" due to lack of interest, staffing may change, etc.). Additionally, funding could change according to any future directives from the state.

Listed below is a chart of what we are going to try to offer this school year.

EKU's Dual Credit Offerings and Requirements							
Course	**Grade Level**	**ACT Eng.**	**ACT Math**	**ACT Read.**	**ACT Comp.**	**Cumulative GPA**	**Additional Requirements**
PHY 131 (College Physics)	11th or 12th	18				3.0	Must complete Adv. Alg II with a "B" or higher
HIS 103 (American Civ. Since 1877)	11th or 12th	18				3.0	
Online (Variety of Options)	11th or 12th	18				3.0	
SED 104 (Intro to Special Education)	11th or 12th	18				3.0	
Somerset Community College's Dual Credit Offerings and Requirements							
ENG 101	12th	18		20		3.0	
ENG 102	12th	18		20		3.0	Must pass ENG101
MAT 150 (College Algebra)	11th or 12th	18	22			3.0	Prerequisites: Algebra 1, Geometry, Algebra 2
DPT 100 (Intro to 3D Printing Tech.)	11th or 12th	18				3.0	
RATC Courses	11th or 12th					2.5	Complete ACT test.
Online Courses	11th or 12th	18				3.0	
Murray State University's Dual Credit Offerings and Requirements							
Selected Agriculture Courses **(To Be Determined)**	11th or 12th				18	3.0 or Rank in Top ½ of Class	

DUAL CREDIT INFORMATION

Several Things to Keep in Mind

- Taking a dual credit course is a cost efficient way to begin college coursework with additional support.
- Students wishing to take a dual credit course must take the ACT and meet certain benchmarks. **If the ACT benchmark is not met by the beginning of the school year, dual credit will not be an option.** *Test optional admission may be possible depending on the course; however, GPA requirements will remain.*
- When you take a dual credit course in high school, your grade will be reflected on your high school transcript, as well as your COLLEGE transcript. Several programs at the collegiate level require a specific GPA. If you perform poorly in a dual credit course, it can negatively affect your opportunities on the collegiate level.
- If you move from the district or move to the Academy at any point during your dual credit course, it is your responsibility to withdraw from the course through the college in which you are taking your class. After certain dates a "W" will show up on your college transcript. Failure to withdraw can mean failure for the course and an "F" showing up on your transcript.
- There are a lot of unknowns that we will have to address as time goes along.
    - Whether or not a class will make
    - What online courses are going to be offered
        - EKU only has so many dual credit online slots for which many schools are competing. It's possible that the course you want will not be available.

Factors Affecting Funding/Availability/Benefits of Dual Credit

- ACT Score/GPA
- Spaces available through the college (online)
- Cap sizes required by the colleges (courses being taught by our teachers)
- AP Scores
- How colleges "count" the credit from other schools

While there are benefits to having dual credit opportunities, it is not for everybody. Please carefully consider the following questions.

- If you are considering a dual credit course with a classroom teacher, ask yourself these questions.
    - How is my attendance? **EKU dual credit students are held to the EKU attendance policy**
    - Am I responsible in meeting deadlines?
    - Is there any chance that I will be moving?
    - Am I ready to be a college student?
- If you are considering an online dual credit course, ask yourself these questions?
    - Am I a self-starter?
    - Do I mind working independently?
    - Do I mind completing and submitting my assignments electronically?
    - Am I responsible in meeting deadlines?
    - Is there any chance that I will be moving?
    - Am I ready to be a college student?

FYI: Maybe the most commonly asked question… "Will this class count at colleges other than EKU, SCC, or Murray?"
Answer: Every college has its own general education requirements. It is your responsibility to contact your schools of interest and verify whether or not the class will count. Be careful when they say, "Oh yes, we will count it for elective credit". You need to then follow with, "But will it count toward my major and not simply give me 'extra' elective hours.

Student & Parent attendance at a dual credit informational meeting is REQUIRED before students will be permitted to take dual credit courses.

CO-OP INFORMATION

Purpose

The basic purpose of the Co-operative Technical Education Course is to prepare students for useful employment in an occupational field of their choice. This course provides students with an opportunity to graduate as individuals who have adjusted to the world of work. The Co-operative Technical Education Course uses employment in a real-life job as a source of learning. **Co-operative Technical Education is for students who are in a vocational/technical education program, and it is the final experience of a PLANNED PROGRAM that the student has been working on during his or her high school career.**

High School Co-op Contacts

J.D. Bussell, RCHS Principal
Casey Harper, RCHS Counselor
Amy Lewis, RCHS Counselor
Matthew Whitaker, Agriculture Co-op Program Instructor
Lewis Mink, Agriculture Co-op Program Instructor
Tammy Camel, Family/Consumer Science Co-op Program Instructor
Travis Brenda, Pre-Engineering Co-op Program Instructor
Gary Shawen, Information Technology Co-op Program Instructor

RATC Co-op Contacts

Sherman Cook, RATC Principal
Rhonda Childress, Health Science Co-op Instructor
Vicky Castle, Business/Office Co-op Instructor
Ashley Mullins, Business/Office Co-op Instructor
Curtis Burton, Welding Co-op Instructor
Lance Baldwin, Auto Technology Co-op Instructor
Jeff Draper, Electrical Technology Co-op Instructor

Eligibility

- A student MUST successfully complete at least **three** courses or be enrolled in a **third** course in their career cluster. ***PLEASE NOTE: Some program areas require the student to have completed certain prerequisite courses. (see "Career Major Pathways" page for information on the options that are offered at RCHS)***
- A student may only co-op in a career cluster area for which there is a Department of Education LEAD code for Co-Operative Technical Education or Practicum. ***(see "Career Major Pathways" page for information on the options that are offered at RCHS)***
- Student employment DOES NOT guarantee acceptance into a co-op program. Acceptance depends upon teacher recommendation, junior-year attendance, discipline records, and career plans.
- A student MUST BE **recommended by the Co-op Committee** as being ready to begin work in a related job experience in that student's chosen career path.
- A student MUST **complete a Co-op Application and obtain all required signatures** which MUST include recommendation from the program area instructor.
- A student is NOT ELIGIBLE for Co-op if they have **violated attendance policy during their junior year**.
- A student MUST BE a senior, **based on high school credits** at the end of their junior year with nothing preventing them from graduating.
- When senior co-op students exceed acceptable attendance limits for prom/graduation privileges, they will be removed from co-op as if they were fired. The student's transcript will reflect a grade of F for the credits in which they were enrolled.

PRE-PROFESSIONAL PROGRAM CO-OP

For students who are interested in majoring in a pre-professional program such as medicine, pharmacy, or law, RCHS has created a cooperative work/education experience that will allow them to work in a **PAID** career-related job during a portion of the school day. The work experience will be the culminating activity of the student's Individual Learning Plan.

ELIGIBILITY:

- Student must secure their own job.
- Student employment DOES NOT guarantee acceptance into a co-op program. Acceptance depends upon principal approval, junior-year attendance, discipline records, and career plans.
- A student MUST BE a senior, **based on high school credits** at the end of their junior year with nothing preventing them from graduating.
- Student must complete the pre-college curriculum
- Student must have a minimum 3.0 G.P.A.
- Student must have completed or be enrolled in A.P. Language, A.P. Literature, and/or Dual Credit English
- Student must have completed or be enrolled in either A.P. Calculus or Dual Credit Algebra
- A student MUST **complete a Co-op Application and obtain all required signatures**
- When co-op students exceed acceptable attendance limits for prom/graduation privileges, they will be removed from co-op as if they were fired. The student's transcript will reflect a grade of F for the credits in which they were enrolled.

OPPORTUNITIES AT RCHS AND RATC
PATHWAYS

CTE creates an environment of opportunity and possibility within our school and prepares students to succeed in further education and career opportunities. CTE is delivered through a comprehensive program of study in a pathway of classes that students take over their 4-year high school career. Below is a listing of the career clusters and their respective pathways that are offered either at RCHS or RATC.

FFA	**HORTICULTURE & PLANT SCIENCE**—Principles of Agriculture Science & Tech, Ag-Biology, Intro to Greenhouse, Intro to Horticulture, Ag Communications. **ANIMAL SCIENCE**—Principles of Agriculture Science & Tech, Ag-Biology, Animal Science, Vet Science, Ag Communications **AG POWER**—Principles of Agriculture Science & Tech, Small Power & Equipment, Ag Structure & Design, Ag Construction, Ag Communication **ENVIRONMENTAL**—Principles of Agriculture Science & Tech, Ag-Biology, Environmental Science, Greenhouse I, Greenhouse II, Ag Communications ***Co-Op Opportunities? YES*** ***Industry Certs? NO*** ***College Articulation? YES***
PROJECT LEAD THE WAY COMPUTER SCIENCE	**COMPUTER SCIENCE**—CS Essentials, Cybersecurity, AP CS Principles, AP CS A **NETWORK SECURITY**—Computer Hardware and Software Maintenance, Introduction to Networking Concepts, Security Fundamentals, Internship, Co-Op ***Co-Op Opportunities? YES*** ***Industry Certs? YES*** ***College Articulation? YES***
PROJECT LEAD THE WAY ENGINEERING	Intro to Engineering Design, Principles of Engineering, Digital Electronics, Aerospace Engineering, Civil Engineering. Also, Welding Engineering available in conjunction with RATC ***Co-Op Opportunities? NO*** ***Industry Certs? MAYBE*** ***College Articulation? NO***
FAMILY & CONSUMER SCIENCES	**EARLY CHILDHOOD EDUCATION**—Early Lifespan Development, Child Development Services 1, Child Development Services 2, & must take at least one of: FACS Essentials, Relationships, or Parenting **CONSUMER & FAMILY SERVICES**—FACS Essentials, Money Skills, Relationships, & must take one of the following: Foods & Nutrition, Parenting, or Internship. ***Co-Op Opportunities? YES*** ***Industry Certs? YES*** ***College Articulation? YES***
JROTC	Complete LET1-LET3 and get a bump in pay grade upon enlistment to E-2. Complete LET4 earns a completion certificate, can be used at college JROTC level for MS1 an MS2 courses, and can be used as a graduation qualifier beginning 2023.
RATC	**HEALTH SCIENCE**—Allied Health, Dental Assisting, Phlebotomy Tech, Pharmacy Tech, Pre-Nursing **BUSINESS & OFFICE**—Administrative Support, E-Commerce **AUTOMOTIVE**—Automotive Maintenance & Light Repair Technician *Can add Engineering I and Digital Electronics from RCHS to also complete **Automotive Engineering** **ELECTRICITY**—Industrial Electrician Assistant, Skilled Trades Construction Electrical Track *Can add Engineering I and Digital Electronics from RCHS to also complete **Electrical Engineering** **WELDING**—Welder-Entry Level and Welding Engineer (PLTW classes required) *Can add Engineering I and II from RCHS to also complete **Welding Engineering** ***Co-Op Opportunities? YES*** ***Industry Certs? YES*** ***College Articulation? YES***

KEES MONEY

Kentucky Educational Excellence Scholarship

The KEES program provides scholarships to students who earn at least a 2.5 GPA each year they attend a certified Kentucky high school. The better they do in high school, the more they earn toward college. They may also earn awards for ACT/SAT scores and Advanced Placement (AP) scores.

- **YOU CAN ACCESS YOUR KEES ACCOUNT TO SEE HOW MUCH YOU HAVE EARNED!**
  - Kheaa.com
  - Click on KEES in top right corner of the screen
  - Follow directions for creating username and password

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

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

ACT Bonus Award Amounts

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

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

A.P. Supplement Award Amounts

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

AP Score	Amount
5	$ 300
4	$ 250
3	$ 200

ROCKCASTLE COUNTY HIGH SCHOOL COURSE OFFERINGS 2022-2023—GRADE 9

REQUIRED CLASSES-5 Total

ENGLISH (Choose 1)

☐English 9
LA230107

☐Advanced English 9
LA230107A

MATHEMATICS (Choose 1)

☐Algebra 1
MA270304

☐Advanced Algebra 1
MA270304A

☐Advanced Geometry
MA270401A

SCIENCE (Choose 1)

☐Physical Science
SC304021

☐Advanced Physical Science
SC304021A

SOCIAL STUDIES (Choose 1)

☐Civics & Geography
SS459801

☐Advanced Civics & Geography
SS459801A

☐A.P. U.S. Government & Politics
SS451030

HEALTH/PHYSICAL EDUCATION (Choose 1)

☐Health/P.E. FEMALES
HP340133F

☐Health/P.E. MALES
HP340133M

☐JROTC 1
JR580240

ELECTIVE CLASSES—Choose 2

ROCKCASTLE AREA TECHNOLOGY CENTER

☐Automotive Level 1
VAT1

☐Electricity Level 1
VET1

☐Welding Level 1
VW1

☐Health Science Level 1
VHS1

☐Business & Office Technology Level 1
VB1

AGRICULTURE

☐Agricultural Science & Technology
AG030715

ARTS & HUMANITIES

☐Art 1
VP500711

☐Beginning Percussion Methods
VP500921

☐Drama
VP500512

☐General Chorus 1
VP500925

☐Honors Choir
VP500926

☐Concert Band
VP500913

FAMILY & CONSUMER SCIENCES

☐FCS Essentials
FCS200113

WORLD LANGUAGES

☐Spanish 1
WL161108

COMPUTER SCIENCE

☐Computer Science Essentials
IT110710

☐Computer Hardware and Software Maintenance
IT110101

PRE-ENGINEERING/PROJECT LEAD THE WAY

☐Engineering I: Introduction to Engineering Design
PL219901

MISCELLANEOUS ELECTIVE

☐Promotional Applications & Media

***If we are unable to get you into all of your requested elective courses, we will refer to your alternate list of courses. It is important that you choose alternates wisely as you may have at least one on your schedule. If you do not list any alternates, we will choose for you.**

RANK	ALTERNATES
1st Choice	
2nd Choice	
3rd Choice	

***Please write a 1 and 2 beside your elective choices with 1 being your top choice.**

ALL MATH, ENGLISH, SCIENCE, AND SOCIAL STUDIES CLASSES MUST BE ACCOMPANIED BY YOUR CURRENT TEACHER'S SIGNATURE NEXT TO YOUR SELECTION

ROCKCASTLE COUNTY HIGH SCHOOL COURSE OFFERINGS 2022-2023—GRADE 10

REQUIRED CLASSES-4 Total

ENGLISH (Choose 1)

☐English 10
LA230110

☐Advanced English 10
LA230110A

MATHEMATICS (Choose 1)

☐Geometry
MA270401

☐Advanced Geometry
MA270401A

☐Advanced Algebra 2
MA270311A

SCIENCE (Choose 1)

☐Biology 1
SC302601

☐Advanced Biology 1
SC302601A

☐Agri-Biology
AG302680

SOCIAL STUDIES (Choose 1)

☐World History
SS450835

☐A.P. World History
SS450876

ELECTIVE CLASSES—Choose 3

ROCKCASTLE AREA TECHNOLOGY CENTER

☐Automotive Level 1
VAT1

☐Electricity Level 1
VET1

☐Welding Level 1
VW1

☐Health Science Level 1
VHS1

☐Business & Office Technology Level 1
VB1

☐Business & Office Technology Level 2A
VB2-*Prerequisite VB1-2 Class Periods*

AGRICULTURE

☐Agricultural Science & Technology
AG030715

☐Agricultural Communications
AG010110

☐Environmental Technology
AG030609

☐Animal Science
AG020501

☐Greenhouse I
AG010611

ARTS & HUMANITIES

☐Art 1
VP500711

☐Art 2
VP500713

☐Beginning Percussion Methods
VP500921

☐Drama
VP500512

☐General Chorus 1
VP500925

☐Concert Band
VP500913

☐Honors Choir
VP500926-*Audition or recommendation required*

FAMILY & CONSUMER SCIENCES

☐FCS Essentials
FCS200113

☐Parenting
FCS200173

☐Relationships
FCS200171

☐Early Lifespan Development
FCS200223

☐Money Skills
MA201011

WORLD LANGUAGES

☐Spanish 1
WL161108

☐Spanish 2
WL161109

HEALTH & PHYSICAL EDUCATION

☐Physical Education 2
HP340219

☐Strength Training & Conditioning (Females)
HP340214RF

☐Strength Training & Conditioning (Males)
HP340214RM-*NON ATHLETES*

☐Advanced Strength Training (Males)
HP340214M-*ATHLETES*

COMPUTER SCIENCE

☐Computer Science Essentials
IT110710

☐Computer Hardware and Software Maintenance
IT110101

☐Intro to Networking Concepts
IT110901-*Prerequisite:Comp. Hardware & Software Main.*

☐AP Computer Science Essentials
IT110711-*Prerequisite:Computer Science & Algebra 1*

PRE-ENGINEERING/PROJECT LEAD THE WAY

☐Engineering I: IED
PL219901

☐Engineering II: POE
PL219902

☐Digital Electronics
PL219903-*Prerequisite: Engineering I or II*

JUNIOR RESERVE OFFICER TRAINING CORPS

☐JROTC 1
JR580240

☐JROTC 2
JR580241

☐JROTC Leadership Lab 1 (LET 2-4)
JR580244

☐JROTC Leadership Lab 2 (LET 2-4)
JR580244B

SCIENCE

☐Chemistry 1
SC304521-*Prerequisite for AP Chem.*

☐Physics 1
SC304821-*Recommended if you plan to take College Physics*

MISCELLANEOUS ELECTIVE

☐Promotional Applications and Media

☐Multimedia Publishing
VB060751

****If we are unable to get you into all of your requested elective courses, we will refer to your alternate list of courses. It is important that you choose alternates wisely as you may have at least one on your schedule. If you do not list any alternates, we will choose for you.**

RANK	ALTERNATES
1st Choice	
2nd Choice	
3rd Choice	

***Please write a 1, 2, and 3 beside your elective choices with 1 being your top choice.**

ALL MATH, ENGLISH, SCIENCE, AND SOCIAL STUDIES CLASSES MUST BE ACCOMPANIED BY YOUR CURRENT TEACHER'S SIGNATURE NEXT TO YOUR SELECTION

ROCKCASTLE COUNTY HIGH SCHOOL COURSE OFFERINGS 2022-2023—GRADE 11

REQUIRED CLASSES-4 Total

ENGLISH (Choose 1)

☐English 11
LA230113

☐AP English Language & Composition
LA230166

MATHEMATICS (Choose 1)

☐Algebra 2
MA270311

☐Accelerated Algebra 2
MA270311A

☐Advanced Topics
MA270621

☐College Algebra Dual Credit
MA800021-*Must meet SCC Requirements and have passed Algebra I, Geometry, and Algebra II*

SCIENCE (Choose 1)

☐Earth Science
SC304598

☐Chemistry 1
SC304521-*Prerequisite for AP Chemistry*

☐Physics 1
SC304821-*Recommended prerequisite for College Physics*

☐Spec. Topics in Physics/College Physics Dual Credit
SC800041-*Must meet EKU requirements, pass Acc. Algebra 2 with a B or higher, and have department approval.*

☐A.P. Chemistry-*Chemistry I is a prerequisite*
SC304526

SOCIAL STUDIES (Choose 1)

☐U.S. History
SS450809

☐A.P. U.S. History
SS450814

☐Dual Credit U.S. History/HIS 103
SS800051-*Must meet EKU Requirements*

ELECTIVE CLASSES—Choose 3

ROCKCASTLE AREA TECHNOLOGY CENTER

A level 2 course will count for 2 classes on your schedule. Level 2 courses have a level 1 prerequisite

☐Automotive Level 2
VAT2

☐Electricity Level 2
VET2

☐Welding Level 2
VW2

☐Health Science Level 2
VHS2

☐Business & Office Technology Level 1
VB1

☐Business & Office Technology Level 2A
VB2

AGRICULTURE

☐ Agricultural Communications
AG010110

☐Ag. Construction Skills
AG010241

☐Environmental Technology
AG030609

☐Veterinary Science
AG020511

☐Greenhouse I
AG010611

☐Animal Science
AG020501

☐Small Power Equipment
AG010231

☐Greenhouse II
AG010641

JUNIOR RESERVE OFFICER TRAINING CORPS

☐JROTC 1
JR580240

☐JROTC 2
JR580241

☐JROTC 3
JR580242

☐JROTC Leadership Lab 1 (LET 2-4)
JR580244

☐JROTC Leadership Lab 2 (LET 2-4)
JR580244B

FAMILY & CONSUMER SCIENCES

☐Early Lifespan Development
FCS200223

☐Parenting
FCS200173

☐Relationships
FCS200171

☐Money Skills
MA201011

☐Child Development Services
FCS200261-*Prerequisite: Parenting or ELD*

WORLD LANGUAGES

☐Spanish 1
WL161108

☐Spanish 2
WL161109

☐Spanish 3
WL161110

HEALTH & PHYSICAL EDUCATION

☐Physical Education 2
HP340219

☐Strength Training & Conditioning (Females)
HP340214RF

☐Strength Training & Conditioning (Males)
HP340214RM-*NON ATHLETES*

☐Advanced Strength Training (Males)
HP340214M-*ATHLETES*

ARTS & HUMANITIES

☐Art 2
VP500713

☐Art 3
VP500712

☐Drama
VP500512

☐General Chorus 1
VP500925

☐Concert Band
VP500913

☐Honors Choir
VP500926-*Audition or recommendation required*

☐Beginning Percussion Methods
VP500921

☐His/Vis Performing Arts
VP500111-*Required if you have not had an art, music, or drama course*

COMPUTER SCIENCE

☐Computer Science Essentials
IT110710

☐Computer Hardware and Software Maintenance
IT110101

☐Intro to Networking Concepts
IT110901-*Prerequisite:Comp. Hardware & Software Main.*

☐AP Computer Science Principles
IT110711-*Prerequisite:Computer Science & Algebra 1*

☐Security Fundamentals
IT110912-*Prerequisite:Intro to Networking Conc.*

☐A.P. Computer Science A
IT110701-*Prerequisites: AP CSP, Completion of/enrolled in Algebra 2*

PRE-ENGINEERING/PROJECT LEAD THE WAY

☐Engineering I: IED
PL219901

☐Engineering II: POE
PL219902

☐Digital Electronics
PL219903- *Prerequisite: Engineering I or II*

☐Civil Engineering and Architecture
PL219905-*Prerequisite: Engineering I & either Engineering II or Digital Electronics*

SCIENCE

☐A.P. Chemistry
SC304526-*Prerequisite: Chemistry 1*

☐Anatomy & Physiology
SC302651-*For students NOT in Health Sciences at RATC*

☐Forensics
SC302616

SOCIAL STUDIES

☐Psychology
SS459901

☐Criminal Justice
SS451039

MISCELLANEOUS ELECTIVE

☐Multimedia Publishing
VB060751

☐Promotional Applications and Media

☐Yearbook 1/Journalism
LA239141A-*Application required*

☐College Online Dual Credit
MISON1-*Must meet EKU requirements*

☐Dual Credit- Special Education Introduction-SED 104
MIS800051-*Must meet SCC requirements*

☐Dual Credit-Introduction to 3D Printing Technology-DPT 100
Must meet SCC admission requirements

***If we are unable to get you into all of your requested elective courses, we will refer to your alternate list of courses. It is important that you choose alternates wisely as you may have at least one on your schedule. If you do not list any alternates, we will choose for you.**

***Please write a 1, 2, and 3 beside your elective choices with 1 being your top choice.**

RANK	ALTERNATES
1st Choice	
2nd Choice	
3rd Choice	

ALL MATH, ENGLISH, SCIENCE, AND SOCIAL STUDIES CLASSES MUST BE ACCOMPANIED BY YOUR CURRENT TEACHER'S SIGNATURE NEXT TO YOUR SELECTION

ROCKCASTLE COUNTY HIGH SCHOOL COURSE OFFERINGS 2022-2023—GRADE 12

REQUIRED CLASSES-2-3 Total

ENGLISH (Choose 1)

☐English 12
LA230116

☐AP English Literature & Composition
LA230167

☐Dual Credit English 12/ENG 101&102
LA800011-*Must meet SCC requirements*

MATHEMATICS (Choose 1 or more)

☐Algebra 2
MA270311

☐Algebra 3
MA270320

☐Advanced Topics
MA270621

☐College Algebra Dual Credit
MA800021-*Must meet SCC Requirements*

☐AP Calculus
MA270513

☐Money Skills
MA201011

ARTS & HUMANITIES

☐His/Vis Performing Arts
VP500111-*Required if you have not had an art, music, or drama course*

ELECTIVE CLASSES—Choose 4-5

ROCKCASTLE AREA TECHNOLOGY CENTER

A level 3 course will count for 3 classes on your schedule. Level 3 courses have a level 2 prerequisite

☐Automotive Level 3
VAT3

☐Electricity Level 3
VET3

☐Welding Level 3
VW3

☐Health Science Level 3
VHS3

☐Business & Office Technology Level 1
VB1

☐Business & Office Technology Level 3
VB3

AGRICULTURE

☐ Agricultural Communications
AG010110

☐Ag. Construction Skills
AG010241

☐Environmental Technology
AG030609

☐Veterinary Science
AG020511

☐Greenhouse I
AG010611

☐Animal Science
AG020501

☐Small Power Equipment
AG010231

☐Greenhouse II
AG010641

☐Principles of Teaching Agriculture
AG331020

ARTS & HUMANITIES

☐Art 2
VP500713

☐ Art 3
VP500712

☐Art 4
VP500714

☐Drama
VP500512

☐General Chorus 1
VP500925

☐Concert Band
VP500913

☐Honors Choir
VP500926-*Audition or recommendation required*

☐Beginning Percussion Methods
VP500921

SOCIAL STUDIES

☐AP Government & Politics
SS451030

☐AP World History
SS450876

☐Dual Credit U.S. History/HIS 103
SS800051-*Must meet EKU Requirements*

☐Psychology
SS459901

☐Criminal Justice
SS451039

SCIENCE

☐A.P. Chemistry
SC304526-*Prerequisite: Chemistry 1*

☐Anatomy & Physiology
SC302651-*For students NOT in Health Sciences at RATC*

☐Forensics
SC302616

☐Chemistry 1
SC304521-*Prerequisite for AP Chemistry*

☐Physics 1
SC304821-*Recommended prerequisite for College Physics*

☐Spec. Topics in Physics/College Physics Dual Credit
SC800041-*Must meet EKU requirements, pass Acc. Algebra 2 with a B or higher, and have department approval.*

☐Earth Science
SC304598-*For seniors who did not pass Chemistry or Earth Science their 11th grade year*

WORLD LANGUAGES

☐Spanish 1 WL161108
☐Spanish 2 WL161109
☐Spanish 3 WL161110
☐Spanish 4 WL161111

HEALTH & PHYSICAL EDUCATION

☐Physical Education 2 HP340219
☐Strength Training & Conditioning (Females) HP340214RF
☐Strength Training & Conditioning (Males) HP340214RM-*NON ATHLETES*
☐Advanced Strength Training (Males) HP340214M-*ATHLETES*

FAMILY & CONSUMER SCIENCES

☐Early Lifespan Development FCS200223
☐Parenting FCS200173
☐Relationships FCS200171
☐Money Skills MA201011
☐Child Development Services FCS200261-*Prerequisite: Parenting or ELD*

COMPUTER SCIENCE

☐Computer Science Essentials IT110710
☐Computer Hardware and Software Maintenance IT110101
☐Security Fundamentals IT110912-*Prereq:Intro to Networking Conc.*
☐Intro to Networking Concepts IT110901-*Prerequisite:Comp. Hardware & Software Main.*
☐AP Computer Science Principles IT110711-*Prerequisite:Computer Science & Algebra 1*
☐Information Technology Internship IT110919-*Prerequisite: CHSM*
☐A.P. Computer Science A IT110701-*Prerequisites: AP CSP, Completion of/enrolled in Algebra 2*

PRE-ENGINEERING/PROJECT LEAD THE WAY

☐Engineering I: IED PL219901
☐Engineering II: POE PL219902
☐Digital Electronics PL219903- *Prerequisite: Engineering I or II*
☐Civil Engineering and Architecture PL219905- *Prerequisite: Engineering I & either Engineering II or Digital Electronics*

JUNIOR RESERVE OFFICER TRAINING CORPS

☐JROTC 1 JR580240
☐JROTC 2 JR580241
☐JROTC 3 JR580242
☐JROTC 4 JR580243
☐JROTC Leadership Lab 1 (LET 2-4) JR580244
☐JROTC Leadership Lab 2 (LET 2-4) JR580244B

SOCIAL STUDIES

☐AP Government & Politics SS451030
☐AP World History SS450876
☐Dual Credit U.S. History/HIS 103 SS800051-*Must meet EKU Requirements*
☐Psychology SS459901
☐Criminal Justice SS451039

MISCELLANEOUS ELECTIVE

☐Multimedia Publishing VB060751
☐Promotional Applications and Media
☐Yearbook 1/Journalism LA239141A-*Application Required*
☐Yearbook 2/Journalism LA239141B-*Application Required*
☐Library LIB909020-*Invitation Only*
☐College Online Dual Credit MISON1-*Must meet EKU requirements*
☐Dual Credit-Special Education Introduction-SED 104 MIS800051-*Must meet EKU requirements*
☐Spec Topics in Pathways to Careers PTC320107-*Application Required*
☐Office/Teacher's Aide TA909020-*Must meet qualifications*
☐Dual Credit-Introduction to 3D Printing Technology-DPT 100 *Must meet SCC admission requirements*
☐Career Options-JAG PTC320103

NOTES