# Russellville High School
# 2020-2021
# Course Catalog

RUSSELLVILLE High School

1865 Waterloo Road, Russellville, AL 35653 * P: 256-331-2110 * F: 256-332-8447

**Dear Parents and Students,**

**On behalf of the faculty, staff, and administration, we would like to welcome you to Russellville High School. We take pride in providing educational experiences, which meet the needs of all learners through a varied and challenging curriculum. Through Advanced Placement (AP) courses, career-technical academies, and our state of the art athletic and fine art facilities, our students have the greatest opportunity to be actively involved in both their academic and extracurricular explorations.**

**This course catalog outlines the variety of course offerings that Russellville High School is proud to offer our students. We look forward to an exceptional school year full of rigorous coursework and memories that will last a lifetime.**

**Sincerely,**

**Mr. Jason Goodwin, Principal**

**Russellville High School**

# Russellville City Schools Board of Education

Greg Batchelor – President
Jerry Groce – Vice-President
Bret Gist
Judy Pounders
Greg Trapp

# Russellville City Schools Administration

Heath Grimes – Superintendent
Claudia Askew – Administrative Assistant
Dr. Tim Guinn – Administrative Assistant

# Russellville High School Administration

Jason Goodwin – Principal
Natalie Bendall – Assistant Principal / Career and Technical Education Director
Jeremy Clemmons – Assistant Principal
Stacie Givens - Assistant Principal

# Russellville High School Guidance

Alissa Moore
Michelle Murray
Lori Hardin - Career Coach

# Table of Contents

# Russellville High School Diploma Options Checklist

| SUBJECT | HONORS | ADVANCED | STANDARD |
|---|---|---|---|
| **ENGLISH**<br>4 Credits | ☐ English 9 Honors<br>☐ English 10 Honors<br>☐ AP Language<br>☐ AP Literature or English 101/102 | ☐ English 9<br>☐ English 10<br>☐ English 11<br>☐ English 12<br>(3 must be Honors, AP or DE) | ☐ English 9<br>☐ English 10<br>☐ English 11<br>☐ English 12 |
| **MATH**<br>4 Credits<br>(Computer Science Explorations, AP Computer Science A, and AP Computer Science Principles may count as a student's 4th math credit. Students must have Algebra, Geometry, and Algebra II.) | ☐ Algebra I Honors<br>☐ Geometry Honors<br>☐ Algebra II w/ Trig<br>☐ _____<br>(Must be Advanced or AP Math) | ☐ Algebra A&B or Algebra I<br>☐ Geometry<br>☐ Algebra II w/ Trig<br>☐ _____<br>(Must be Advanced or AP Math) | ☐ Algebra A&B or Algebra I<br>☐ Algebra II<br>☐ Geometry<br>☐ _____<br>(Any other math eligible course or substitute course.) |
| **SCIENCE**<br>4 Credits<br>(Must include Biology and Physical Science) | ☐ Biology Honors<br>☐ Chemistry Honors<br>☐ _____<br>☐ _____<br>(Must include Chemistry and 2 Advanced Sciences excluding Earth Science and Environmental Science) | ☐ Biology<br>☐ Chemistry or Physics<br>☐ _____<br>☐ _____<br>(Excluding Earth Science or Environmental Science) | ☐ Biology<br>☐ Physical Science<br>☐ _____<br>☐ _____ |
| **SOCIAL SCIENCE**<br>4 Credits | ☐ World History<br>☐ US History – Early<br>☐ US History – Modern<br>☐ Govt & Economics<br>(4 must be Honors, AP, or DE) | ☐ World History<br>☐ US History – Early<br>☐ US History – Modern<br>☐ Govt & Economics<br>(3 must be Honors, AP, or DE) | ☐ World History<br>☐ US History – Early<br>☐ US History – Modern<br>☐ Govt & Economics |
| **PHYSICAL EDUCATION** | ☐ PE, Marching Band, or JROTC | ☐ PE, Marching Band, or JROTC | ☐ PE, Marching Band, or JROTC |
| **FOREIGN LANGUAGE** | ☐ _____<br>☐ _____<br>(2 credits of the same language) | ☐ _____<br>☐ _____<br>(2 credits of the same language) | Not Required |
| **HEALTH**<br>(1/2 Credit) | ☐ Health | ☐ Health | ☐ Health |
| **CAREER PREP**<br>(1 Credit) | ☐ Career Preparedness | ☐ Career Preparedness | ☐ Career Preparedness |
| **CTE or ART ELECTIVE**<br>(1 Credit) | ☐ _____ | ☐ _____ | ☐ _____<br>(May be CTE, Foreign Lang, or Art) |
| **ADDITIONAL ELECTIVES** | ☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>(8 ½ Credits) | ☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>(6 ½ Credits) | ☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>☐ _____<br>(4 ½ Credits)<br>(2 must be CTE, Foreign Lang, or Fine Art) |
| **AP REQUIREMENTS** | 4 core courses from above must be AP or Dual Enrollment | Not Required | Not Required |
| **Total Credits** | 30 | 28 | 24 |

*1/21/20

# Russellville High School
# Weighted Courses

**Procedures for determining Class Rank & Grade Point Averages**

For the purpose of class ranking and the computation of grade point averages for students classified as seniors, grades will be computed at the end of the seventh ($7^{th}$) semester of high school (fall of the senior year).

1. Students must be receiving a minimum of an Alabama High School Advanced or Honors Diploma, to be Valedictorian or Salutatorian

2. The candidates for Valedictorian and Salutatorian must have been continuously enrolled at Russellville High School for the previous consecutive four (4) semesters prior to the date of their graduation (the latest a transfer student may enter RHS and be considered for Valedictorian/Salutatorian is the beginning of their junior year in the fall and remain for the next four consecutive semesters including the graduating semester).

3. Class Ranking: Beginning with the class of 2019 and beyond: Student class ranking shall be decided by the Weighted Quality Point GPA average. A "tie" will be the absolute SAME Quality Point GPA to the fifth ($5^{th}$) decimal placing and a numeric GPA to the ($5^{th}$) decimal placing.

**Weighted Averages:**

*Intent:* Weighted grades recognize the increased difficulty of demanding academic courses and attempts to compensate the student for the additional risk and work. The inception of weighted courses into the grade point average calculation is an attempt to challenge the students at Russellville High School to greater individual academic achievement through selection of more rigorous academic coursework. Weighted averages may also provide students at Russellville High School with an opportunity to compete with students from comparable schools for college admission and academic scholarships.

<table>
<tr><th colspan="3">WEIGHTED COURSES</th></tr>
<tr><td><u>Department of Social Studies</u><br><br>Economics and Government Adv<br>Honors US History<br>US History AP<br>*Dual enrollment Psychology</td><td><u>Department of Language Arts</u><br><br>Honors English 9<br>Honors English 10<br>English 11 & 12 Honors<br>AP Language<br>AP Literature</td><td rowspan="2"><u>Career and Technical Education</u><br>(Weighted on a 5 point scale)<br><br>Internship to Healthcare<br>Multimedia Design<br>Advanced Accounting<br>Adv. Bus. Tech Applications<br>Nurse Aide Training<br>Engineering Systems<br>Engineering Research & Design</td></tr>
<tr><td><u>Department of Mathematics</u><br><br>Honors Alg. I<br>Honors Algebra II with Trigonometry<br>Honors Geometry<br>Honors Pre-Calculus<br>AP Calculus</td><td><u>Department of Science</u><br><br>Honors Biology<br>Honors Chemistry<br>AP Biology<br>AP Chemistry</td></tr>
</table>

All Honors, Core Dual Enrollment and Advanced Placement courses taught on RHS campus will be weighted. Only and all dual enrollment classes taken on RHS campus will appear on the student's transcript. Any courses taken at any other post-secondary institutions can, upon request be entered to RHS student transcript; however, will not count towards the student's numerical GPA, quality point GPA, or class ranking.

**Scale for Weighting Courses:**

| Letter Grade | Numerical Grade | Basic Course Quality Points | Honors / Advanced / Dual Enrollment Course Quality Points | AP Course Quality Points |
|---|---|---|---|---|
| A | 90-100 | 4 | 5 | 6 |
| B | 80-89 | 3 | 4 | 5 |
| C | 70-79 | 2 | 3 | 4 |
| F | 0-69 | 0 | 0 | 0 |

10/26/18

# English Course Descriptions

| **Course: English 9 (200005)** | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** This course concentrates mainly on developmental skills in the use of grammar and its component parts by reinforcing and extending the skills learned earlier. Literature study includes short stories, poetry, drama, and a novel. Reading comprehension and vocabulary building are emphasized. Learning activities will provide students with a better understanding of the various processes of writing and also enhance their critical thinking skills. | | | |

| **Course: English 9 Honors (200007)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** This course focuses on using Close Reading strategies to extract meaning from a variety of texts in order to write analytical and persuasive compositions. An emphasis is placed on applying critical reading strategies and thinking skills to selected works in order to analyze literary criticism and discuss the way literary elements support an author's theme/argument concerning social justice and human relationships. | | | |

| **Course: English 10 (200009)** | | | |
|---|---|---|---|
| **Grade: 10** | **Credit(s): 1** | **Prerequisite: English 9** | **Fee: None** |
| **Course Description:** This course is a basic course in grammar, composition, and literature. The grammar and composition include emphasis on parts of speech, parts of a sentence, sentence structure, and paragraph development. Students are also taught vocabulary development, library, and reference skills. This course involves American literature from the Colonial period through 1900 and includes short stories, a novel, and drama. A research project will also be required. Students will be given instruction in the four modes of writing: descriptive, persuasive, expository, and narrative. | | | |

| **Course: English 10 Honors (200011)***This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 10** | **Credit(s): 1** | **Prerequisite: English 9** | **Fee: None** |
| **Course Description:** This course is an optional course, which places more emphasis on composition skills and critical thinking. The study of American literature from the Colonial period through 1900 will include short stories, novels, drama, and poetry. A research project is required. Grammar skills are emphasized. Students will complete extensive writing assignments, including essays from all four modes: descriptive, persuasive, expository, and narrative. | | | |

| **Course: English 11 (200013)** | | | |
|---|---|---|---|
| **Grade: 11** | **Credit(s): 1** | **Prerequisite: English 10** | **Fee: None** |

**Course Description:** Contemporary American Literature (1900-present) will be read, discussed, and critiqued with emphasis on various writing styles and evolving American themes. Literature selections include poems, essays, short stories, novels, plays, and movies from American writers. Students will participate in grammar, vocabulary, research, and writing activities, which correspond to the literature, as well as additional activities outside the scope of the literature.

| **Course: English 11 AP (English Language and Composition) (200016 & 200036aa)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11** | **Credit(s): 2** | **Prerequisite: English 10** | **Fee: None** |
| **Course Description:** An AP course in English Language and Composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way genre conventions and the resources of language contribute to effectiveness in writing. In order to receive college credit, students must earn a score of a 3, 4, or 5 on the AP exam. Scores corresponding to college credit vary among colleges. | | | |

| **Course: English 12 (200017)** | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite: English 11** | **Fee: None** |
| **Course Description:** This course chronologically surveys British literature from the Anglo-Saxon Period to the present. In this course, students will apply a variety of reading strategies to various passages ranging from informational and other expository texts to complex works of literature. By applying these skills, students will be able to interpret, analyze, evaluate, and synthesize material for different reading, writing, speaking, and listening applications. The course also includes a strong emphasis on vocabulary development and on improved thinking skills. | | | |

| **Course: English 12 AP (English Literature and Composition) (200020 & 200036)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 2** | **Prerequisite: English 11 AP or Advanced** | **Fee: None** |
| **Course Description:** This course focuses on using Close Reading strategies to extract meaning from a variety of texts in order to write analytical and persuasive compositions. An emphasis is placed on applying critical reading strategies and thinking skills to selected works in order to analyze literary criticism and discuss the way literary elements support an author's theme/argument concerning social justice and human relationships. | | | |

| **Course: English 101: Dual Credit / Dual Enrollment (903201)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11** | **Credit(s): 1** | **Prerequisite: See Below** | **Fee: NWSCC Tuition** (Approximately $400) |
| **Prerequisite**: English 10– Students must meet the entrance requirements of NWSCC and their high school. They must have an overall "B" average in their high school coursework and written approval from their high school principal and superintendent. They must also have a 20 on the English portion of the ACT test or make a passing score on the Accuplacer test administered by NWSCC. | | | |

**Course Description:** This course is designed to give instruction and practice in developing paragraphs and essays, emphasizing both the composing process and the final product. This course may also include library orientation, research skills, and critical reading of literature with primary emphasis on composition. Upon successful completion and paid tuition of this course, students will earn a college credit for English 101 through NWSCC.

| **Course: English 102: Dual Credit / Dual Enrollment (903202)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite: See Below** | **Fee: NWSCC Tuition** (Approximately $400) |

**Prerequisite:** English 11– Students must meet the entrance requirements of NWSCC and their high school. They must have an overall "B" average in their high school coursework and written approval from their high school principal and superintendent. They must also have a 20 on the English portion of the ACT test or make a passing score on the COMPASS test administered by NWSCC.
**Course Description:** This course is designed to give instruction and practice in developing paragraphs and essays, emphasizing both the composing process and the final product. This course may also include library orientation, research skills, and critical reading of literature with primary emphasis on composition. Upon successful completion and paid tuition of this course, students will earn a college credit for English 101 through NWSCC.

| **Course: English as a Second Language (300001)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: See Below** | **Fee: None** |

Prerequisites: Qualifying students that have a score of 4.7 or lower on the ACCESS test or have LEP 1 status meaning 1st year in the U.S. from native country.
Course Description: ESL is designed to help limited English-speaking students become more proficient in speaking, reading, writing, and comprehending English. Upon successful completion of this course, students may receive one-credit each semester they are enrolled.

# AP Capstone™ Course Descriptions

**AP Capstone**™is a diploma program from the College Board. It's based on two year long AP courses: AP Seminar and AP Research. Rather than teaching subject-specific content, these courses develop students' skills in research, analysis, evidence-based arguments, collaboration, writing, and presenting. Students who complete the two-year program can earn one of two different AP Capstone awards, which are valued by colleges across the United States and around the world.
In both courses, students investigate a variety of topics in multiple disciplines. Students may choose to explore topics related to other AP courses they're taking.
Both courses guide students through completing a research project, writing an academic paper, and making a presentation on their project.
Over the course of the two-year program, students are required to:

- Analyze topics through multiple lenses to construct meaning or gain understanding.
- Plan and conduct a study or investigation.
- Propose solutions to real-world problems.
- Plan and produce communication in various forms.
- Collaborate to solve a problem.

- Integrate, synthesize, and make cross-curricular connections.

**Students can earn the AP Capstone Diploma™ or the AP Seminar and Research Certificate™.**
Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma™. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate™.

| **Course: AP Seminar (230089)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite:** | **Fee: None** |
| AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate their ideas. | | | |

| **Course: AP Research (230088)** | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite: AP Seminar** | **Fee: None** |
| AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000–5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense. | | | |

# Math Course Descriptions

| **Course: Geometry with Data Analysis (210010)** | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** Geometry with Data Analysis is a newly-designed course which builds on the students' experiences in the middle grades. It is the first of three required courses in high school mathematics. Students build on and deepen prior understanding of transformations, congruence, similarity, and coordinate geometry concepts. An emphasis on reasoning and proof throughout the content area promotes exploration, conjecture testing, and informal and formal justification. Students extend their middle school work with conjecturing and creating informal arguments to more formal proofs. Students also perform algebraic calculations with specific application to geometry that build on foundations of algebra from Grades 7 and 9. Students also build from earlier experiences in analyzing data and creating linear models to focus on univariate quantitative data on the real number line and bivariate quantitative data on a coordinate plane (creating linear models). | | | |

| **Course: Advanced Geometry with Data Analysis (210012)** | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |

**Course Description:** This is an advanced course. Geometry with Data Analysis is a newly-designed course which builds on the students' experiences in the middle grades. It is the first of three required courses in high school mathematics. Students build on and deepen prior understanding of transformations, congruence, similarity, and coordinate geometry concepts. An emphasis on reasoning and proof throughout the content area promotes exploration, conjecture testing, and informal and formal justification. Students extend their middle school work with conjecturing and creating informal arguments to more formal proofs. Students also perform algebraic calculations with specific application to geometry that build on foundations of algebra. Students also build from earlier experiences in analyzing data and creating linear models to focus on univariate quantitative data on the real number line and bivariate quantitative data on a coordinate plane (creating linear models).

| **Course: Algebra I with Probability (210005)**<br>**Advanced Algebra I with Probability (210006)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** Algebra I with Probability is a newly designed course which builds upon algebraic concepts studied in the middle grades. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in subsequent study of mathematics. This course builds essential concepts necessary for students to meet their postsecondary goals (whether they pursue additional study or enter the workforce), to function as effective citizens, and to recognize the wonder, joy, and beauty of mathematics. | | | |

| **Course: Algebra II with Statistics (210016)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** Algebra II with Statistics is a newly-designed course which builds on the students' experiences in previous mathematics coursework. This course incorporates knowledge and skills from several mathematics content areas, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. Students explore an expanded range of functions, including polynomial, trigonometric (specifically sine and cosine), logarithmic, reciprocal, radical, and general piecewise functions. Students also solve equations associated with these classes of functions. Students learn how to make inferences about a population from a random sample drawn from the population and how to analyze cause-and-effect by conducting randomized experiments. | | | |

| **Course: Applications of Finite Mathematics (400024)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** Applications of Finite Mathematics is a newly-designed, specialized course developed for inclusion in the 2019 Alabama Course of Study. This is a fourth year course that extends beyond the three years of essential content that is required for all high school students. Applications of Finite Mathematics provides students with the opportunity to explore mathematics concepts related to discrete mathematics and their application to computer science and other fields. Students who are interested in postsecondary programs of study that do not require calculus (such as elementary and early childhood education, English, history, art, music, and technical and trade certifications) would benefit from choosing Applications of Finite Mathematics as their fourth high school mathematics credit. | | | |

| **Course: Pre-Calculus (210020)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: Algebra II with Statistics** | **Fee: None** |
| **Course Description:** Precalculus is designed for students who intend to pursue a career in science, mathematics, engineering, or technology (STEM) that requires the study of calculus. It prepares students for calculus at the | | | |

postsecondary level or AP Calculus at the high school level. Precalculus builds on the study of algebra adding rational functions, trigonometric functions, and general piecewise-defined functions to the families of functions considered. Precalculus also expands on the study of trigonometry in previous courses and considers vectors and their operations. Other topics, such as statistics, that are frequently added to precalculus courses are not included because the course's primary focus is preparing students for calculus.

| **Course: AP Calculus / Calculus AB (210025 & 210032)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 2** | **Prerequisite: Pre-Cal** | **Fee: AP Exam** |
| **Course Description:**This is an advanced math course that is primarily focused on developing the students understanding of the concepts of calculus and providing experience with its methods and applications. This course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. This course covers in depth topics such as functions, graphs, limits, derivatives, and integrals. In order to receive college credit, students must earn a score of 3, 4, or 5 on the AP exam. Scores corresponding to college credit vary among colleges. | | | |

| **Course: AP Computer Science Principles (520018)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: AP Exam** |
| **Course Description:**A one credit college-level course following the curriculum established by the College Board Advanced Placement (AP) program for computer science; emphasizes object-oriented programming methodology with a concentration on problem-solving and algorithm development. | | | |

| **Course: Intermediate College Algebra: Math 100 (Dual Enrollment-NWSCC) (907611)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite:** Min 18+ ACT Math Subscore | **Fee: NWSCC Tuition** |
| **Course Description:**This course provides a study of algebraic techniques such as linear equations and inequalities, quadratic equations, systems of equations, and operations with exponents and radicals. Functions and relations are introduced and graphed with special emphasis on linear and quadratic functions. This course does not apply toward the general core requirement for mathematics. PREREQUISITE: MTH 092 or MTH 098 or appropriate mathematics placement score. Upon successful completion of this course, students will earn college credit for MTH100 through NWSCC. | | | |

| **Course: Intermediate College Algebra: Math 112 (Dual Enrollment-NWSCC) (907601)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite:** Min 20+ ACT Math Subscore | **Fee: NWSCC Tuition** |
| **Course Description:**This course is a one semester combination of Precalculus Algebra and Precalculus Trigonometry intended for superior students. The course covers the following topics: the algebra of functions (including polynomial, rational, exponential, and logarithmic functions), systems of equations and inequalities, quadratic inequalities, and the binomial theorem, as well as the study of trigonometric (circular functions) and inverse trigonometric functions, and includes extensive work with trigonometric identities and trigonometric equations, vectors, complex numbers, DeMoivre's Theorem, and polar coordinates. PREREQUISITE: A minimum prerequisite of high school Algebra I, Geometry, and Algebra II with an appropriate mathematics placement score is required. An alternative to this is that the | | | |

student should successfully pass with a C or higher (S if taken as pass/fail) MTH 100 and receive permission from the department chairperson. Upon successful completion of this course, students will earn college credit for MTH112 through NWSCC.

# Science Course Descriptions

## Life Science

| **Course: Anatomy & Physiology (220026)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** Biology w/ an 80 average | **Fee: $15** |
| **Course Description:**A study of human anatomy and physiology, including the major organ systems. The skeletal, muscular, nervous, circulatory, endocrine, digestive, respiratory, lymphatic, and reproductive systems will be studied. Dissection and the comparative anatomy of the pig is an important part of this course. | | | |

| **Course: Biology (220011)** | | | |
|---|---|---|---|
| **Grade: 9-10** | **Credit(s): 1** | **Prerequisite:** | **Fee: $10** |
| **Course Description:**An introductory study of the fundamentals of biology. Topics include the scientific method, ecology, the cell, genetics, classification, microorganisms, fungi, plants, invertebrates, vertebrates and human biology. Lab participation is required. | | | |

| **Course: Biology – Honors (220013)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 9-10** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $10** |
| **Course Description:**This course is designed for the college-bound student who wishes further investigation into the biological sciences. This is a recommended course for anyone wishing to enroll in AP Biology. The course will examine scientific method, classification, cell structure and function, genetics, evolution, ecology, microbiology, and biotechnology. Students will be required to participate in laboratory investigations. | | | |

| **Course: Biology – AP (220014 & 220043)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 2** | **Prerequisite:** 80 average in Honors Biology | **Fee:** AP Exam Fee & $15 Lab Fee |
| **Course Description:**This course is designed to enable students to develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains as they relate to biology. Key concepts: evolution, cellular processes: energy and communication, genetics and information transfer and interactions. In order to receive college credit, students must earn a score of 3, 4, or 5 on the AP exam. Scores corresponding to college credit vary among colleges. | | | |

| **Course: Environmental Science (220029)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: Biology** | **Fee: $10** |

**Course Description:**A study of the biological and physical processes important in our environment with major emphasis on food chains, food webs, the organization of life, as well as a study of the major ecosystems and biomes of the world. A major portion of the course will involve learning and performing atmospheric and water quality testing of the environment, biological testing, and the monitoring and characterization of changes in wildlife and plant life in our environment. **This course counts as a science credit only on the standard diploma and as an elective credit on the advanced diploma.**

# Physical Science

| **Course: Chemistry – Honors (220063ab)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** Algebra I | **Fee: $15** |
| **Course Description:**Advanced investigation of empirical concepts central to biology, earth science, environmental science, and physiology; in-depth investigations on the properties and interactions of matter including matter and its interactions, concentration of forces and motion, types of interactions, stability and instability in chemical systems, conservation of energy, energy transformations, and application of energy to everyday life. | | | |

| **Course: Chemistry – AP (220064 & 220067)***This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 2** | **Prerequisite:** Chemistry-Honors | **Fee: AP Exam Fee and $15** |
| **Course Description:**This is an advanced rigorous math-based course that provides students with a foundation to support future advanced coursework in chemistry. Through inquiry-based learning, students develop critical thinking and reasoning skills. Students will cultivate their understanding of chemistry and science practices as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. Students will be required to spend at least 25% of the instructional time engaged in laboratory investigations. In order to receive college credit, students must earn a score of a 3, 4, or 5 on the AP exam. Scores corresponding to college credit vary among colleges. | | | |

| **Course: Physics (220071)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite:** Algebra I & Algebra II | **Fee: $15** |
| **Course Description:**The science of energy, space and time, physics explains how the physical properties of matter interact with each other. It explains the behavior of mass, kinetic and electrical energy and the movement of objects through space and time. Offered to students in grades 11 and 12, the physics curriculum provides opportunities for students to participate in laboratory work and study topics such as electricity, sound waves, thermodynamics, kinematics, fundamental physics concepts, scientific methodology and basic mathematical analysis. | | | |

| **Course: Earth and Space Science (220081)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $10** |
| **Course Description:**This course is a combination of many topics that relate to the Earth and its many features. Topics include the history and composition of the Earth, weathering and erosion, plate tectonics, oceanography, meteorology, and the Earth in space. **This course counts as a science credit only on the standard diploma and as an elective credit on the advanced diploma**. | | | |

| Course: Physical Science (220051) | | | |
|---|---|---|---|
| **Grade: 9-10** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $10** |
| **Course Description:**This course in an introductory study of the chemical and physical properties of matter and energy. It is devoted to an understanding of basic chemical principles, a description of the atom, writing chemical formulas and equations, and the periodic table. **This course counts as a science credit only on the standard diploma and as an elective credit on the advanced diploma.** | | | |

# Social Science (History) Course Descriptions

| Course: World History: 1500 to Present (230013) | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**This course offers students a survey of world events from 1500 to modern times. An emphasis is placed on geographic impact and development of civic knowledge and responsibilities. | | | |

| Course: World History: 1500 to Present – Advanced (230015) | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**Advanced work in the chronological history of the world: the emergence of a global age; the Age of Revolutions; the Age of Isms; era of global war; the world from 1500 to present. | | | |

| Course: United States History to 1877 (230016) | | | |
|---|---|---|---|
| **Grade: 10** | **Credit(s): 1** | **Prerequisite: World Hist.** | **Fee: None** |
| **Course Description:**This course focuses on the economic, social, geographic, historical and political development of the United States. Following chronological format students will explore major events and key figures from the time of exploration to the Reconstruction Era. Key events associated with the development of Alabama will be incorporated into the class. | | | |

| Course: United States History to 1877 – Honors (230017) *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 10** | **Credit(s): 1** | **Prerequisite: World Hist.** | **Fee: None** |
| **Course Description:**Advanced work in the chronological survey of major events and issues: colonization; American Revolution; development of political system and distinct culture; slavery; reform movements; sectionalism; Civil War; Reconstruction; Alabama's history and geographic changes that have influenced aspects of life during and after events | | | |

| Course: United States History Since 1877 to Present (230019) | | | |
|---|---|---|---|
| **Grade: 11** | **Credit(s): 1** | **Prerequisite: US Hist. to 1877** | **Fee: None** |

**Course Description:**This course focuses on the economic, social, geographic, historical, and political development of the United States from 1877 to the present. The material is presented in a chronological format. Key events and leading historical figures from Alabama are incorporated into the course.

| **Course:United States History Since 1491 to Present AP (230022 & 230032)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11** | **Credit(s): 2** | **Prerequisite: US History to 1877 Honors** | **Fee: AP Exam Fee** |
| **Course Description:**This course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in US history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. Students will develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. In order to receive college credit, students must earn a score of a 3, 4, or 5 on the AP exam. Scores corresponding to college credit vary among colleges. | | | |

| **Course: United States Government (230041)** | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): ½** | **Prerequisite: US History from 1877** | **Fee: None** |
| **Course Description:**This course focuses on the basic origins, structure, and functions of government at all levels in the nation. This course is paired with economics. Upon successful completion of these courses, students will earn one credit in social studies. | | | |

| **Course: United States Government Advanced (230042)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): ½** | **Prerequisite: US History from 1877** | **Fee: None** |
| **Course Description:**This course is designed for students who plan on attending college. It includes research projects, essays, and higher-level questions. The course concentrates on the basic functions of US government and civic responsibility. This course is paired with Economics Advanced. Upon successful completion of these courses, students will earn one credit in social studies. | | | |

| **Course: United States Government AP (230047)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): ½** | **Prerequisite: US History from 1877** | **Fee: AP Exam Fee** |
| **Course Description:** This course is accelerated in rigor and pace, this course is designed to give students critical perspective on government and politics within the United States. The course involves generalized political science concepts and political theories. Critical thinking and analysis skills are used to interpret the American political system. Participation in national AP test is a mandatory component in the rigor of this course. | | | |

| **Course: Economics (230051)** | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): ½** | **Prerequisite: US History 1877** | **Fee: None** |

**Course Description:**This course focuses on the functions and institutes of modern-day economic systems and economic theory. This course is paired with US Government. Upon successful completion of these courses, students will earn one credit in social studies.

| **Course: Economics – Advanced (230052)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): ½** | **Prerequisite: US History from 1877** | **Fee: None** |
| **Course Description:**This course will focus on major concepts associated with basic microeconomics and macroeconomics. Emphasis will be placed on economic theory and will include research projects. This course is paired with US Government Advanced. Upon successful completion of these courses, students will earn one credit in social studies. | | | |

# Physical Education Course Descriptions

| **Course: Physical Education / LIFE (Girls) (10th-12th: 240002ac) (9th: 240002)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**A required one-credit high school course providing students with a blueprint for a lifetime of healthy living. Through the LIFE course, students will gain knowledge regarding the elements of fitness and how to apply these to their daily life. Lifelong activities such as walking, running, aerobics, tennis, badminton, hiking, etc. are used to improve fitness levels. In addition, students are required to develop an individualized fitness plan that establishes a foundation for a healthy future. | | | |

| **Course: Physical Education / LIFE (Boys) (10th-12th240002al) (9th: 240002aa)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**A required one-credit high school course providing students with a blueprint for a lifetime of healthy living. Through the LIFE course, students will gain knowledge regarding the elements of fitness and how to apply these to their daily life. Lifelong activities such as walking, running, aerobics, tennis, badminton, hiking, etc. are used to improve fitness levels. In addition, students are required to develop an individualized fitness plan that establishes a foundation for a healthy future. | | | |

| **Course: Weight Training (240014) (Required if participating in a sport.)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: Sports Team Members Only** | **Fee: None** |
| **Course Description:**This lecture course includes the basic principles of physical education and physical fitness. It explores the psychological and physiological effects of exercise and physical fitness, including effects on the human skeleton, muscle development, respiration, and coordination. It is viewed as an introduction to such laboratory courses as slimnastics, weight training, and conditioning. The course may also include fitness evaluation, development of individual fitness programs, and participation in fitness activities | | | |

# Foreign Language Course Descriptions

| Course: Spanish I (270153) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**A beginning course in Spanish 1 develops basic listening, speaking, and writing skills necessary to communicate about self, family, and daily life. It introduces the students to basic vocabulary and fundamental sentences structure in the present and past tense. Students will also explore cultural aspects of the Spanish-speaking world. | | | |

| Course: Spanish II (270154) | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**This course is a continued course of Spanish I to further develop and improve listening, speaking, reading, and writing skills necessary to communicate about self, family and daily life as well as an abstract concept such as feelings and emotions. This course stresses basic vocabulary and fundamental sentence structure in the past tense, future indicative, and the subjunctive mood. | | | |

# Health and Driver Education Course Descriptions

| Course: Health Education (250002) | | | |
|---|---|---|---|
| **Grade: 9-10** | **Credit(s): ½** | **Prerequisite: None** | **Fee: $20** |
| **Course Description:**Health education is a required one-semester course usually paired with driver and traffic safety education. Health education students and driver and traffic safety education students share the same block. The emphasis in health education is on providing students with up to date information concerning health issues and on providing students with knowledge about their bodies and how to maintain a healthy lifestyle throughout their adult lives. There are a broad range of topics covered in developing a healthy lifestyle such as: making responsible food choices, costs and problems of drug use, preventing and treating communicable and non-communicable diseases, handling emergencies, benefits of physical fitness, understanding your emotions, and building healthy relationships. Students will attend both classes each week during the semester. **$20 covers the cost of CPR card and face shield** | | | |

| Course: Driver and Traffic Safety Education (290001) | | | |
|---|---|---|---|
| **Grade: 9-10** | **Credit(s): ½** | **Prerequisite: Age 15+** | **Fee: $35** |
| **Course Description:**This course is a basic introduction of the fundamentals necessary for safe and responsible driving. Driver education develops an understanding and adaptation to traffic in terms of knowledge, attitudes, and skills. Duration of the course involves 30 hours of classroom instruction and 4-6 hours of behind-the-wheel instruction per semester. The goal of the classroom instruction phase is for students to learn the fundamentals of safety and responsibility within the driving environment. During classroom instruction, nine areas are addressed including highway license requirements, traffic laws, responsible ownership, driving procedures and maneuvers, sharing the road | | | |

with motorized and non-motorized users, factors related to youthful drivers, physical and mental impairments, driving environments and conditions, and boating safety. The behind-the-wheel instruction phase is performance based as it gives beginning drivers actual driving experience under the supervision of a certified driver education teacher during actual on-the-street/behind-the-wheel driving in an automobile with dual controls. Students may also take advantage of the third-party testing program (driving test) at Russellville High School. This program allows the driver education teacher to be a designated testing agent of the Alabama Department of Public Safety to administer the driver portion of the licensing exam.

# Fine Arts Course Descriptions

## Band

| **Course: Marching Band I (283102), Marching Band II (283202), Marching Band III (283302), Marching Band IV (283402)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite:** Approval of the band director and enrollment in either Instrumental Techniques, Concert Band, or Wind Ensemble | **Fee: $100** |
| **Course Description:**This group will meet each fall semester with rehearsals beginning in late July. The class will meet during skinny period with three rehearsals after school. The marching band performs at all Russellville High School football games as well as parades and competitions. This course also fulfills the required LIFE Physical Education credit. | | | |

| **Course: Wind Ensemble I (283106), Wind Ensemble II (283206), Wind Ensemble III (283306), Wind Ensemble IV (283406)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite:** Approval of band director and enrollment in Marching Band | **Fee: None** |
| **Course Description:**This is the most advanced of the ensembles and is designed for the student who is a highly competent performer. The student is challenged by the music of the highest caliber, requiring a more sophisticated understanding of complex rhythms, all key signatures, musical terminology, ensemble skills, and extra effort on the part of the student. Wind Ensemble is a major performing ensemble, and participation in concerts and festivals is required. After school rehearsals on an as needed basis. | | | |

| **Course: Concert Band I (283100), Concert Band II (283200), Concert Band III (283300), Concert Band IV (283400)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite:** Approval of band director and enrollment in Marching Band | **Fee: None** |
| **Course Description:**This course is for the student who has attained intermediate proficiency on his/her instrument. Music of increasing difficulty is presented with instruction designed to increase the range, flexibility, endurance, tone quality, and artistic interpretation of the student. This group performs in school and public concerts. Attendance at extra rehearsals and performances is required. | | | |

| **Course: Instrumental Techniques (283116)** |
|---|

| | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite:** Approval of the band director and enrollment in either Instrumental Techniques, Concert Band, or Wind Ensemble | **Fee: None** |
| **Course Description:**This course is designed to develop musical performance skills for the beginner or novice musician | | | |

# Theatre Arts

| **Course: Theatre I (285100)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $25.00** |
| **Course Description:** The purpose of this course is to increase students' understanding, appreciation, and critical perceptions of the theatrical event. Readings and lectures will focus on the elements of theatrical practice; artists and innovators of theatre throughout history; and on the theatre's development as an art form and a social phenomenon; participation in class forum discussions and sharing of critiques and short reports will offer avenues to explore students' individual theatrical interests; and optional attendance at theatrical events will offer firsthand experience in theatre arts. | | | |

| **Course: Musical Theatre I (285101), Musical Theatre II (285201), Musical Theatre III (285301), Musical Theatre IV (285401)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: Audition** | **Fee: *$200 for Musicals and $50.00 for Concerts** |
| **Course Description:**This course is a performance course. Entry into this course is audition-based. The focus of this course is the performance of monologues, scenes, and songs, as well as participation in competitions and RHS Musical Theatre productions. ***Funds can be raised through fundraisers and sponsorships.** | | | |

| **Course: Introduction to Technical Theatre Production (285102), Technical Theatre Production II (285202), Technical Theatre Production III (285302)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite:** Director Approval | **Fee: $25 Material Fee** |
| **Course Description:** This one credit course, proficient level, explores beginning technical theatre. Creating, performing, responding and connecting drive critical thinking, meaning, reflection, production and assessment to understand theater through a technical theatre experience. Students will learn beginning design principles, scenery, lighting, costuming and sound design for theatre productions. Students will study the history of theatre and an emphasis will be placed on the safe practices and proper use of tools, equipment and materials. | | | |

# Visual Arts

| **Course: Introduction to Art: (286100)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $25 Art Supplies** |
| **Course Description:** This course provides students with a general foundation in studying various types of art. Those types of art include drawing, painting, arts and crafts and sculpture & pottery, printmaking, and graphic design. Students will apply the elements and principles of art to create original works of art. | | | |

| Course: Arts and Crafts (286101) | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $25 Art Supplies** |
| **Course Description:** This course provides students with a foundation in studying various types of arts and crafts. Those types of arts and crafts include clay, ceramics, fabric, weaving, painting and other types of media. Students will apply the elements and principles of art to create original works of art. | | | |

| Course: Painting (286208) | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $25 Art Supplies** |
| **Course Description:** This course provides students with a foundation in studying various types of painting. Those types of paintings include watercolor, acrylic, oil, tempera, mixed media and other types of media. Students will apply the elements and principles of art to create original works of art. | | | |

| Course: Drawing (286210) | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $25 Art Supplies** |
| **Course Description:** This course provides students with a foundation in studying various types of drawing. Those types of drawing include pencil, ink, charcoal, colored pencil, marker, oil pastel and chalk pastels. Students will apply the elements and principles of art to create original works of art. | | | |

| Course: Sculpture and Pottery (286211) | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $25 Art Supplies** |
| **Course Description:** This course provides students with a foundation in studying various types of sculpture and pottery. Those types of sculpture and pottery includes working with clay, ceramics, wire and paper. Students will apply the elements and principles of art to create original works of art. | | | |

# Vocal Music

| Course: Beginning Chorus (283600) | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $25 Music Literature** |
| **Course Description:**This course is available for first-year choral students regardless of grade level. This ensemble will perform and compete in all choral activities, and students will be eligible for individual events throughout the year. | | | |

| Course: Advanced Chorus II (283700), Advanced Chorus III (283800), Advanced Chorus IV (283900) | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: Beg. Chorus** | **Fee: $25 plus travel** |
| **Course Description:** Students will qualify for this course through auditions and will participate in competitive vocal performances throughout the year. | | | |

| Course: Beginning Theory and Sight Reading (284750) | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $25** |
| **Course Description:** Study of sight-reading and musical theory skills. | | | |

# Career & Technical Education Course Descriptions

## Agriscience

| Course: Agriscience (420009) | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite:** | **Fee:** $25 Materials/Equipment |
| **Course Description:**This course provides students with a general overview of the Agriculture, Food, and Natural Resources cluster. This course contains five pathways—Power, Structure, and Technical Systems; Environmental and Natural Resources Systems; Animal Systems; Plant Systems; and Agribusiness Systems. Students will be involved in classroom and laboratory activities in each of the five pathway areas. Topics included in this course include career opportunities, safety, technology applications, agribusiness leadership, environmental science, soil science, plant science, forestry, animal science, aquaculture, wildlife science, pest management, woodworking, metalworking, small engines, electrical wiring, and plumbing. | | | |

| Course: Fundamentals of Agriscience II (Building Construction) (420101) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee:** $25 Materials/Equipment |
| **Course Description:**Fundamentals of Agriscience is a course that provides students with a fundamental overview of the Agriculture, Food and Natural Resources cluster, which contains five pathways – Power, Structure, and Technical Systems; Environmental and Natural Resources Systems; Animal Systems, Plant Systems, and Agribusiness Systems. Emphasis will be placed on basic safety, construction math, hand tools, power tools, construction drawings, basic rigging, communication skills, employability skills, and material handling. | | | |

| Course: Fish and Wildlife Management (420024) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee:** $25 Materials/Equipment |
| **Course Description:**Fish and Wildlife Management is a course that provides students with the opportunity to gain knowledge regarding the management of natural resources. Topics included in the course are career opportunities, outdoor safety, history, issues, classification, fish and wildlife ecology, fish and wildlife management, endangered species, fish and wildlife pest management, and outdoor recreation. | | | |

| Course: Greenhouse Production and Management (420054) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee:** $25 Materials/Equipment |
| **Course Description:**Greenhouse Production and Management is a course related to the production of greenhouse crops. | | | |

Topics include career opportunities, safety, plant propagation, growing media, plant identification, greenhouse production, pest control, business management, and equipment and facilities. The hands-on approach to learning is a key component in this course.

| **Course: Horticultural Science (420051)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee:** $25 Materials/Equipment |
| **Course Description:**Topics in Horticultural Science include career opportunities, safety, plant physiology, growing media, greenhouse facilities, greenhouse and nursery crop production, plant identification and classification, pest management, hydroponics and vegetable gardening, and technological application. | | | |

| **Course: Landscape Design and Management (420057)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee:** $25 Materials/Equipment |
| **Course Description:**The Landscape Design and Management course allows students to become more knowledgeable about and appreciative of landscape design and management. Topics include career opportunities, safety, landscape design, plant selection, landscape growth and the environment, landscape establishment and management, interior plantscaping and xeriscaping, landscape business management, and technology. This course is offered every other year. | | | |

| **Course: Forestry (420020)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee:** $25 Materials/Equipment |
| **Course Description:**Forestry is a course designed to enable students to become knowledgeable of forestry and wood technology. Students acquire an appreciation for increased emphasis on managing and conserving forests for the future. Topics include career opportunities, safety, history, dendrology, tree measurement, mapping, silviculture, forest products, and forest protection. | | | |

| **Course: Sports Turfgrass Production and Management (420056)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite:** | **Fee: None** |
| **Course Description:** This course prepares students for sports turfgrass careers. Emphasis is placed on turfgrass growth, turfgrass management, sports fields, turfgrass tools and equipment, business management, and technology. | | | |

| **Course: Senior Career Pathway Project - Agriculture, Food, & Natural Resources (420077)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite:** | **Fee: None** |
| **Course Description:** A one-credit course designed for students who have completed a minimum of two career and technical education courses to select an area of interest; engage in in-depth exploration of the area; employ problem-solving, decision-making, and independent learning skills; and present a culminating pathway project before a selected audience. | | | |

# Automotive Service Technology

| **Course: Auto Technology 1 (Maintenance and Light Repair A & B) (570071 & 570072)** |
|---|

| Grade: 10-12 | Credit(s): 2 | Prerequisite: None | Fee: $10 per semester |
|---|---|---|---|
| **Course Description:**The first part of this course prepares students for entry into Automotive Maintenance and Light Repair B. Students explore career opportunities and requirements of a professional service technician. Content emphasizes beginning transportation service skills and workplace success skills. Students study safety, tools, equipment, shop operations, basic engine fundamentals, and basic technician skills. The second part of this course prepares students for entry into Automotive Maintenance and Light Repair C. Students study automotive general electrical systems, starting and charging systems, batteries, lighting, and electrical accessories. Content emphasizes beginning transportation service skills and workplace success skills. | | | |

| Course: Auto Technology 2 (Maintenance and Light Repair C & D) (570073 & 570074) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** Auto Tech 1 | **Fee:** $10 per semester |
| **Course Description:**The first part of this course prepares students for entry into Automotive Maintenance and Light Repair D. Students study and service suspension and steering systems, and brake systems. Content emphasizes beginning transportation service skills and workplace success skills. The second part of this course prepares students for entry into the automotive workforce or into post- secondary training. Student's study and service automotive HVAC systems, engine performance systems, automatic and manual transmission/transaxle systems, as well as practice workplace soft skills. | | | |

| Course: Auto Technology 3 (Service Tech A & B) (570075 & 570076) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** Auto Tech 1/2 | **Fee:** $10 per semester |
| **Course Description:**The first part of this course further prepares students for entry into the automotive workforce or post-secondary training. Students continue their studies of automotive systems but in more depth and detail. The second part of this course further prepares students for entry into the automotive workforce or post-secondary training. Students continue their studies of automotive systems but in more depth and detail. | | | |

| Course: Painting and Refinishing I (Belgreen) (570030) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee:** $10 per semester |
| **Course Description:**This course will run all year and is located at the Franklin County Career Technical Center in Belgreen. This is a one-credit course designed to provide students with an introduction to current technologies in the basic principles of automotive finishes.**This course is taught at the Franklin County Career Technical Center.** | | | |

| Course: Painting and Refinishing II (Belgreen) (570031) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** P/R I | **Fee:** $10 per semester |
| **Course Description:**A one-credit course that provides students with specialized classroom and laboratory experiences in the application of various topcoats. **This course is taught at the Franklin County Career Technical Center.** | | | |

# Business Education

| Course: Career Preparedness (400025) | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |

**Course Description:**Career Preparedness focuses on three integrated areas of instruction – academic planning and career development, financial literacy, and technology. Course content ranges from college and career preparation, to computer literacy skills, to ways to manage personal finances. Simulations and projects promoting leadership skills offer further opportunities for application of knowledge and skills. Acquisition of these skills is achieved by incorporating content and strategies that allow students to meet the required 20-hour online experience as defined by the ALSDE. **All 9th graders are required by the ALSDE to take this course.**

| **Course: Career Preparedness B (400027)** | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): ½** | **Prerequisite:** Career Prep A | **Fee: None** |
| **Course Description:**This course prepares students with knowledge and skills in the areas of career development and academic planning and financial literacy. The required 20-hour online experience can be met by successful completion of both Career Preparedness A and Career Preparedness B. **Students who attended RMS should have completed the first part of this class in 8th grade.** | | | |

| **Course: Accounting (470012)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** Career Prep (Business Course) | **Fee:** $20 Materials |
| **Course Description:**This course is designed to place emphasis on basic principles, concepts, and procedures of accounting. Students are introduced to techniques of keeping special types of business records. Computer accounting applications and computer spreadsheets are also incorporated into the course. Students will gain valuable experience by completing business records for simulated businesses. This course is vital for anyone interested in a business career. This course is also helpful for students wanting to learn how to complete personal budgets, keep track of checking accounts, file taxes, and handle personal finances. | | | |

| **Course: Advanced Accounting (470013)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** Career Prep (Business Course) and Accounting | **Fee:** $20 Materials |
| **Course Description:**This course offers increased emphasis in the "why" of accounting and a blend of advanced accounting principles and procedures using modern accounting tools. Throughout this course students will use computer accounting applications and modern accounting tools such as computer spreadsheets. Students will also be introduced to work simulations in order to explore career opportunities. | | | |

| **Course: Business Technology Applications (450006)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee:** $20 Materials |
| **Course Description:**A one-credit foundation course designed to assist students in developing technological proficiencies in word processing, spreadsheets, databases, presentations, communications, Internet use, ethics, and careers using technology applications. | | | |

| **Course: Advanced Business Technology Applications (450031)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite:** Career Prep (Business Course) | **Fee:** $20 Materials |

**Course Description:**This course is designed to provide students with skills in computer technology and using integrated software with basic business applications. This course utilizes computers as a business tool through the use of database, spreadsheet, word-processing, and presentation software, along with Internet research. This course is a must for anyone wanting to attend college. A major emphasis is placed on guiding students through real-world experiences to ease the school-to-career transition. Students can receive articulated college credit for CIS 146 through NWSCC for this course. **Microsoft certifications are offered in this course free of charge.**

| **Course: Entrepreneurship (400017)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee:** $20 Materials |
| **Course Description:**This course provides students with the skills needed to effectively organize, develop, create, and manage a business. This course includes business management and entrepreneurship, communication and interpersonal skills, economics, and professional development foundations. | | | |

| **Course: Management Principles (Business Internship) (480011)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite:** Career Prep (Business Course) and one other business course | **Fee:** $20 Materials |
| **Course Description:**A one-credit course designed to provide students with an understanding of the organizational functions of businesses, including quality concepts, project management, and problem solving. Students also participate in a business internship program. This is where students are placed in different businesses in the community to observe and obtain "hands-on" work experience during class time. Students must provide their own transportation for this program. | | | |

| **Course: Multimedia Design (410016)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite:** Advanced Bus. Tech. Applications | **Fee:** $20 Materials |
| **Course Description:**Multimedia Design (T4—Teens Teaming with Teachers and Technology) is designed to provide students with skills involving presentations, desktop publishing, web publishing, and digital graphics. In this class, students will work with one or more teachers to incorporate technology into one or more lesson plans. These projects will range from PowerPoint Presentations, to video production, to web pages. | | | |

| **Course: Multimedia Publications (Annual Staff) (410017)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite:** Career Prep and Advanced Business Technology | **Fee:** $20 Materials |
| **Course Description:**This course is designed to provide students with the ability to utilize digital equipment and multimedia digital imaging software, produce interactive media projects, and develop publication layouts. Students use various hardware peripherals as well as the Internet for integrating skills to create a variety of publications (yearbook, newspaper, newsletters, program books, etc.). This is a junior-senior course and students must be pre-approved by the instructor. | | | |

# Career Opportunities

| **Course: College & Career Experience (802110)** |
|---|

| | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): TBD** | **Prerequisite:** Completion of a minimum of two sequenced courses in the same CTE Program. | **Fee: None** |
| **Course Description:**During this course students will engage in the extensive exploration of their career field and will employ problem-solving, decision-making, and independent learning skills in the development and submission of a pathway project during each grading period of the semester. This is a one-credit course designed for senior career tech students that have taken two related career tech courses. Enrollees are subject to administrative approval. Students must be classified as a junior or senior in good standing in order to enroll in this course. | | | |

# Computer Science

| **Course: Information Technology (IT) Fundamentals (520005)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** A one credit course that introduces students to the knowledge base and technical skills for information technology careers. Students study the nature of business and demonstrate knowledge of the functions of information systems in business.l | | | |

| **Course: Computer Science Explorations (520043)** | | | |
|---|---|---|---|
| **Grade: 9-10** | **Credit(s): 1** | **Prerequisite: Algebra I** | **Fee: None** |
| **Course Description:** Exploring Computer Science is an introductory year-long high school computer science course for students in Grades 9-10 focused on foundational computer science concepts and computational practices. Students will be introduced to the breadth of the field of computer science through an exploration of engaging and accessible topics. The course is designed to focus on the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as interface design, limits of computers, and societal and ethical issues. Exploring Computer Science is designed to be a college preparatory high school course and thus, should provide a rigorous, but accessible, introduction to computer science. No previous computer science experience is required. ***This course may also serve as a math credit.** | | | |

| **Course: AP Computer Science Principles (520018)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: AP Exam Fee** |
| **Course Description:**A one credit college-level course following the curriculum established by the College Board Advanced Placement (AP) program for computer science; emphasizes object-oriented programming methodology with a concentration on problem-solving and algorithm development. ***This course may also serve as a math credit.** | | | |

| **Course: AP Computer Science A (520007)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: AP Exam Fee** |
| **Course Description:**AP Computer Science A is equivalent to a first-semester, college-level course in computer science. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), | | | |

analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. ***This course may also serve as a math credit.**

| **Course: Cyber (520038) Foundations of Information Security (Cyber)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** A one-credit course that introduces students to the field of Cyber Security. Students will become familiar with Microsoft Windows and Linux Operating Systems. They will learn to use multiple numbering systems and how these systems are used in network addressing and operating system configuration. Students will also gain experience in the areas of vulnerability identification, risk assessment, risk mitigation techniques, WiFi security, IP Addressing, and Informational Ethics. Co-requisite: Students must be concurrently enrolled in Algebra 1 or higher level math. | | | |

# Cosmetology

| **Course: (510060) Introduction to Cosmetology: Cosmetology 1** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee:** $50 for Mannequin Head and Nail Kit |
| **Course Description:** This course is designed to provide students with a study of concepts related to the cosmetology profession. Students gain initial practical experience in sanitation, shampooing, hair shaping, and hairstyling and is not limited to manicures, pedicures, facial care, cosmetics, shampooing, and conditioning theory. | | | |

| **Course: (510061) Hair Coloring: Cosmetology 2** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: Cosm. 1** | **Fee:** $50 for Mannequin Head |
| **Course Description:** This course is designed to focus on the theory of chemical services related to chemical hair texturing. Students gain initial, practical experience in performing various chemical texturing activities. (Hair Coloring and Permanent Waving, Chemical Relaxing, and Soft Curly Perms Theory ) | | | |

| **Course: (510062) Chemical Services: Cosmetology 3** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: Cosm. 2** | **Fee:** $50 for Mannequin Head |
| **Course Description:** Chemical Services is a one credit course that focuses on the theory of chemical services related to chemical hair texturing. Specific topics include basics of chemistry and electricity, properties of the hair and scalp, and chemical texture services. Students also gain initial practical experience in performing various chemical texture services. | | | |

| **Course: (510063) Introduction to Spa Techniques: Cosmetology 4** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee: None** |
| **Course Description:** Introduction to Spa Techniques is a one credit course that focuses on the structure and function of various systems of the body, massage techniques, skin care, and hair removal. | | | |

| Course: (510064) Advanced Spa Techniques Application: Cosmetology 5 | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee: None** |
| **Course Description:** Advanced Spa Techniques Application is a one credit course that provides students with study and experience in advanced hair removal, cosmetic application, skin care, and massage techniques. | | | |

| Course: (510065) Salon Practice s and Management: Cosmetology 6 | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee: None** |
| **Course Description:** Salon Practices and Management is a one-credit course that enables students to develop entry-level management skills for the cosmetology industry. Students practice all phases of cosmetology in a salon setting. Upon successful completion of this course, students will be able to demonstrate professional work ethics and communication skills, job seeking management skills, and exhibit knowledge of the technology used in salons. | | | |

# Engineering

| Course: Engineering I – Foundations of Engineering (560011) | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**Foundations of Engineering is a course designed to offer students an overview of the engineering profession and fundamental skills utilized in general engineering. Students investigate various engineering disciplines and related career paths. They develop communication and teamwork skills as well as increase their understanding of basic scientific and mathematical principles used in problem solving through the engineering design process. | | | |

| Course: Engineering II – Engineering Applications (560012) | | | |
|---|---|---|---|
| **Grade: 10** | **Credit(s): 1** | **Prerequisite: Eng. 1** | **Fee: None** |
| **Course Description:**Engineering Applications is a one-credit course designed to explore the application of engineering principles in various technological areas including construction, transportation, communication, manufacturing, and bioengineering. Students gain knowledge and experience needed to effectively improve processes and systems in each of these areas. | | | |

| **Course: Engineering III – Engineering Systems (560013)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11** | **Credit(s): 1** | **Prerequisite: Eng. 2** | **Fee: None** |
| **Course Description:**Engineering Systems is a course designed to enable students to explore systems involved in the engineering research and design process. Topics include fluid, thermal, mechanical, and electrical systems. Students gain knowledge of each type of system and common interactions among them. The prerequisite for this course is Algebra II. | | | |

| **Course: Engineering IV – Engineering Research and Design (560014)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite: Eng. 3** | **Fee: None** |

**Course Description:**Engineering Research and Design is a capstone course in the engineering field recommended for students in Grades 11–12. The course enables students to make an informed career choice through the study and application of mechanical, electrical, and other engineering systems. Students conduct research and design engineering projects to enhance abilities and expand interest in the field of engineering. Projects reinforce the application of communication, mathematics, and science. Computer technology applications are utilized extensively in this course to enable students to visualize, model, prototype, solve, and report comprehensive design problems.

| **Course: Introduction to Robotics and Rocketry (540031)** | | | |
|---|---|---|---|
| **Grade: 9-12** | **Credit(s): 1** | **Prerequisite:** Must be a member of Robotics and / or Rocketry Team | **Fee: None** |
| **Course Description:**A one-credit course designed to introduce students to the fundamentals of robotics. The course emphasizes the fundamentals of electrical current, digital circuits, electronic control systems, and the design and operation of robotic systems. | | | |

# Family and Consumer Science

| **Course: Family and Consumer Science (510004)** | | | |
|---|---|---|---|
| **Grade: 9-10** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $30 for Groceries/Sewing Supplies** |
| **Course Description:** Family and Consumer Science is designed for 9th and 10th grade students as a general course. The focus is on preparing the student to establish and maintain a satisfying home and family life and work life. Course Content provides opportunities for students to explore family food, clothing, technology, relationships and resource management. Family, Career and Community Leaders of America (FCCLA) is an integral part of the curriculum, enhances leadership development skills and provides opportunities for community service. | | | |

| **Course: Parenting (510023)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $15 Materials** |
| **Requirement**: Participation in an Infant Simulation for 1 weekend during the semester.<br>**Course Description:**This course focuses on knowledge and skills related to family life and child development. This course includes the study of family dynamics, personal growth, preparation for marriage and parenthood, child growth and development, and career opportunities in family life and child development. Family, Career and Community Leaders of America (FCCLA) is an integral part of the curriculum, enhances leadership development skills and provides opportunities for community service. | | | |

| **Course: Foods and Nutrition (510011)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee:** $60 for groceries |
| **Course Description:**Foods and Nutrition is a one-credit course taught in grades 11-12. Students will learn concepts related to food preparation techniques, healthy dietary choices, etiquette and the relation of diet to the current food supply and food production techniques. Students will also apply social media and digital design techniques, photographic styling applications, and journalism skills to market food items. Family, Career and Community Leaders of America (FCCLA) is an integral part of the curriculum, enhances leadership development skills and provides opportunities for community service. | | | |

| Course: Senior Career Pathway Project Human Services (510069) Only available 5th Period | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee:** No Fee |
| **Course Description:** This is a one-credit course taught in grades 11-12. Senior Career Pathway Project (SCPP) is a capstone course designed for career and technical education students who have completed two or more career and technical education courses. This course allows students to utilize their secondary coursework through an experience that showcases their learning. It provides an opportunity for a student to choose an area of interest and engage in an in-dept exploration of the area while demonstrating problem-solving, decision-making, and independent-learning skills. The SCPP contributes to an educational plan of challenging courses and practical experiences that prepares students for the workplace or for pursuing further education. During the SCPP the student works with his or her coordinating teacher, academic teachers, and with a product or process mentor who has expertise in the student's field of study. At the conclusion of the SCPP, the student presents or demonstrates knowledge gained to an audience consisting of the coordinating teacher, academic teachers, the product or process mentors, peers, and community and business representatives. | | | |

# Health Science

| Course: Foundations of Health Science (490007) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee:** $20 for materials |
| **Course Description:**This is a one-credit course that introduces students to a wide range of health careers. Integrated academics combined with health care knowledge and skills provide the framework for a strong health care delivery system in the 21st century. This course is the prerequisite for all the health science courses except for Medical Terminology. It is recommended for students who want to prepare for further study in an array of health-related fields at the postsecondary level. | | | |

| Course: Health Science Internship I (490013) *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite:** Foundations of Health Science | **Fee:** $20 for materials and $20 Clinical Fee |
| **Clinical Fee Covers:** CPR, Liability Insurance, TB Skin Test. This fee does not cover the cost of the flu shot or scrubs. **Course Description:**This is a one credit course provides students with the knowledge and skills necessary for becoming a healthcare worker or for preparing students for postsecondary health care education programs. Theory and laboratory components comprise at least 10% of the course. Health Science Internship 1 is designed to be completed in a hospital, extended care facility, rehabilitation center, medical office, imagery laboratory, or other health care facility. | | | |

| Course: Health Science Internship II (490014) *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 2** | **Prerequisite:** Foundations of Health Science | **Fee:** $20 for materials and $20 Clinical Fee |
| **Clinical Fee Covers:** CPR, Liability Insurance, abd TB Skin Test. This fee does not cover the cost of the flu shot or scrubs. **Course Description:**This is a two-credit course that provides students with the knowledge and skills necessary for becoming a healthcare worker or for preparing students for postsecondary health care education programs. Theory and laboratory components comprise at least 10% of the course. Health Science Internship 1 is designed to be completed in a hospital, extended care facility, rehabilitation center, medical office, imagery laboratory, or other health care facility. **This course is a year-long course that meets every day.** | | | |

| **Course: Medical Terminology: Dual Credit / Dual Enrollment (901410)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee:** $20 for materials |
| **Course Description:**This is a one-credit course that is currently being offered as a dual credit/ dual enrollment course through Northwest-Shoals Community College that is designed for students to develop health care specific knowledge for a career in the medical field. The course uses an integrated approach for teaching the language of medicine to the health care student by incorporating medical terminology with anatomy and physiology and the disease process. Upon successful completion of this course, students will earn college credit for OAD 211 through NWSCC. | | | |

| **Course: Nurse Aide Training (490034)** *This is a weighted course. Please see page 5 for more information. | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 2** | **Prerequisite:** Foundations | **Fee:** $30 Classroom and $20 Clinical |
| **Clinical Fee Covers:** CPR, Liability Insurance, and TB Skin Test. This fee does not cover the cost of the flu shot or scrubs. **Course Description:**This is a two-credit course, scheduled during both semesters, that is designed for high school seniors to develop health care specific knowledge for a career in the medical field. Students will pursue skill mastery in the classroom, laboratory, and also participate in intensive job-specific training in the clinical area. Students must successfully complete an approved program and pass the National Nurse Aide Assessment certification exam in order to become a Certified Nurse Aide (CNA). | | | |

| **Course: Introduction to Pharmacy (490022)** | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite:** Foundations | **Fee:** $20 for materials and $20 Clinical |
| **Clinical Fee Covers:** CPR, Liability Insurance, TB Skin Test. This fee does not cover the cost of the flu shot or scrubs. **Course Description:**Introduction to Pharmacy is a one-credit course that introduces senior students to the pharmacy profession. Course content emphasizes the history of medicine, mathematics, technology, and legal issues. This course has a laboratory component allowing students the opportunity to observe skills learned in class at local pharmacies. Upon successful completion of this course, students are eligible to take the Pharmacy Technician Certification once they have obtained their high school diploma. | | | |

| **Course: Emergency Medical Services: EMS 118 (941208) / NWSCC Dual Enrollment Course** | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite: None** | **Fee:** Free |
| **Course Description:**This course is required to apply for certification as an Emergency Medical Technician. This course provides students with insights into the theory and application of concepts related to the profession of emergency medical services. Specific topics include: EMS preparatory, airway maintenance, patient assessment, management of trauma patients, management of medical patients, treating infants and children, and various EMS operations. This course is based on the NHTSA National Emergency Medical Services Education Standards. Upon successful completion of this course, students will earn college credit for EMS 118 through NWSCC. **NWSCC tuition fee may be waived if funds available.** | | | |

| **Course: Emergency Medical Services: EMS 119 (941209) / NWSCC Dual Enrollment Course** | | | |
|---|---|---|---|
| **Grade: 12** | **Credit(s): 1** | **Prerequisite:** None | **Fee:** Free |

**Course Description:**This course is required to apply for certification as an EMT. This course provides students with clinical education experiences to enhance knowledge and skills learned in the EMS 118, Emergency Medical Technician Theory and Lab. This course helps students prepare for the National Registry Exam. Upon successful completion of this course, students will earn college credit for EMS 119 through NWSCC. **NWSCC tuition fee may be waived if funds available.**

# JROTC / Army Leadership

| **Course: JROTC 1 (480041)** | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): 1** | **Prerequisite: Age 14+** | **Fee: None** |
| **Course Description:**Unit 1 – Citizenship in Action: This course engages students in the practice of basic citizenship customs and traditions and explores the opportunities for non-military and military national service. ***May count as PE credit and/or Career Preparation.** | | | |

| **Course: JROTC 2 (480042)** | | | |
|---|---|---|---|
| **Grade: 10-11** | **Credit(s): 1** | **Prerequisite: JROTC 1** | **Fee: None** |
| **Course Description:**Unit 2 – Leadership Theory and Application: This course accesses attributes of leadership, explores leadership styles and behaviors, analyzes situations that require leadership, and relates leadership skills to the JROTC program. | | | |

| **Course: JROTC 3 (480043)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: JROTC 2** | **Fee: None** |
| **Course Description:**Units 3-6 – Foundations of Army JROTC and Getting Involved / Service to the Nation: This course will help student cadets build essential skills needed to maximize learning potential and future success and lay the groundwork for service learning. Students will recognize the value of their varied learning styles and multiple intelligences. Student cadets will be able to apply learning strategies to improve their critical thinking, study, and communication skills. Student cadets will also be able to develop and expand their abilities to resolve conflict and prevent violence. These leadership units will help student cadets prepare for life after high school while helping them focus on career and personal planning. | | | |

| **Course: JROTC 4 (480044)** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: JROTC 3** | **Fee: None** |
| **Course Description:**Units 3-6 – Foundations of Army JROTC and Getting Involved / Service to the Nation: This course will help student cadets build essential skills needed to maximize learning potential and future success and lay the groundwork for service learning. Students will recognize the value of their varied learning styles and multiple intelligences. Student cadets will be able to apply learning strategies to improve their critical thinking, study, and communication skills. Students enrolled in this course will have the opportunity to use their leadership skills in JROTC leadership positions, as well as planning and executing training events such are the JROTC Ball, and field trips. | | | |

# Manufacturing

| **Course: Architecture, Construction, and Manufacturing (Introductory Course) 430004** |
|---|

| Grade: 9-12 | Credit(s): 1 | Prerequisite: None | Fee: None |
|---|---|---|---|
| **Course Description:** A one-credit course that introduces students to core knowledge and skills in the areas of design, preconstruction, construction, maintenance, operations, and installation and repair which are foundational to courses related to careers in architecture, construction and manufacturing industries. This course is not a prerequisite for entering a specific pathway. This course is an introductory course to the Manufacturing Program that RHS will launch in 20/21. It may be taught by Mr. Nichols, Mr. Moore, or facilitated online. This will be determined based on interest. | | | |

# Welding

| Course: Welding 1: Dual Credit / Dual Enrollment (WDT 108 / 922829) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**This course provides students with instruction in safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of oxy-fuel cutting, carbon arc cutting, and plasma arc cutting. Upon successful completion of this course, students will earn college credit for Welding 108 through NWSCC. NWSCC tuition fee may be waived if funds available. | | | |

| Course: Welding 2: Dual Credit / Dual Enrollment (WDT 122 / 922831) | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: Welding 1** | **Fee: None** |
| **Course Description:**This course provides students with instruction on safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of carbon arc cutting and plasma arc cutting. Upon successful completion of this course, students will earn college credit for Welding 122 through NWSCC. NWSCC tuition fee may be waived if funds available. | | | |

| Course: Welding 3: Dual Credit / Dual Enrollment (WDT 109 / 922830) | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: Welding 2** | **Fee: None** |
| **Course Description:**This course provides students with instruction on safety practices and terminology in the Shielded Metal Arc Welding (SMAW) process. Emphasis is placed on safety, welding terminology, equipment identification, set-up and operation, and related information in the SMAW process. This course also covers the rules of basic safety and identification of shop equipment and provides the student with the skills and knowledge necessary for the safe operation of carbon arc cutting and plasma arc cutting. Upon successful completion of this course, students will earn college credit for Welding 109 through NWSCC. NWSCC tuition fee may be waived if funds available. | | | |

| Course: Welding 4: Dual Credit / Dual Enrollment (WDT 123 / 922832) | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 1** | **Prerequisite: Welding 3** | **Fee: None** |
| **Course Description:**This course is designed to introduce students to the proper set-up and operation of shielded metal arc welding equipment. Emphasis is placed on striking and controlling the arc, and proper fit up of fillet joints. This course is also designed to instruct students in the safe operation of plasma arc and carbon arc cutting. Upon completion, students should be able to make fillet welds in all positions using electrodes in the F-4 groups in accordance with | | | |

applicable welding code and be able to safely operate plasma arc and carbon arc equipment and perform those operations as per the applicable welding code. Upon successful completion of this course, students will earn college credit for Welding 123 through NWSCC. NWSCC tuition fee may be waived if funds available.

# Other Elective Course Descriptions

| **Course: ACT Test Prep (802104aa)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**This course provides students with an in-depth practice of the ACT while building test-taking skills. Successful completion of this course counts as one elective credit. | | | |

| **Course: Educators Rising Education Observation / Internship** | | | |
|---|---|---|---|
| **Grade: 11-12** | **Credit(s): 0** | **Prerequisite: None** | **Fee: None** |
| **Course Description:** This elective allows students the opportunity to observe in the educational setting at West Elementary School, Russellville Elementary School, or Russellville Middle School. It is part of the Educators Rising Club at RHS. | | | |

| **Course: Peer Helper / Leadership (802207)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee: None** |
| Subject to Director approval/recommendation from a teacher in a core subject.<br>**Course Description:**Peer Helpers is a group of diverse, enthusiastic students dedicated to making the school environment better for everyone. Life skills are gained through training and practice in communication skills, problem-solving techniques, and decision-making strategies as they relate to peer tutoring, mentoring, and conflict resolution. Students are assigned to work as tutors and/or mentors. Students learn group facilitation techniques and public speaking skills. | | | |

| **Course: Teen Leadership (802207ab)** | | | |
|---|---|---|---|
| **Grade: 9** | **Credit(s): ½** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**Teen Leadership is a class in which students develop leadership, professional, and business skills. They learn to foster a healthy self-concept, healthy relationships, and learn to understand the concept of personal responsibility including social media's impact on image. Students will develop an understanding of Emotional Intelligence and the skills it measures, which includes self-awareness, self-control, self-motivation, and social skills. Students also develop skills in public speaking and communication. They will understand the concept of principle-based decision-making and learn to make responsible financial decisions. In addition, students will develop an understanding of the effects of peer pressure, skills to counteract those effects, bullying prevention and defending skills, and will problem-solving skills. Throughout the class, students will employ various technologies to support and empower them to take their skills to the next level. As members of a community, students also develop leadership skills practiced in the form of community service. They will also develop an understanding of the need for vision in goal-setting, both personally and professionally. | | | |

| **Course: ESL Bilingual Peer Helper / Leadership (802207aa)** Subject to Director approval. | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**Peer Helpers is a group of diverse, enthusiastic students dedicated to making the school environment better for everyone. Life skills are gained through training and practice in communication skills, problem-solving techniques, and decision-making strategies as they relate to peer tutoring, mentoring, and conflict resolution. After nine weeks of training, students are assigned to work as tutors and/or mentors. Students learn group facilitation techniques and public speaking skills. | | | |

| **Course: Speech – Fundamentals of Public Speaking (Dual Enrollment – UNA) (911801)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: UNA Tuition** |
| **Course Description:**Min 16+ ACT English Subscore. NOTE: DOES NOT FULFILL ANY OF THE FOUR ENGLISH CREDITS REQUIRED FOR GRADUATION.<br>Oral reading; children's literature; delivering, selecting, organizing speeches; persuasion; poise and verbal skills. Upon successful completion of this course, students will earn college credit for COM201 through UNA. | | | |

# Off Campus Course Descriptions

**Franklin County Career Tech Center Offerings**

The following courses listed below are offered at the Franklin County Career Technology Center located in Belgreen. Students taking these courses have the option to drive to these classes, or ride a bus that will be provided.

| **Course: Pre-Engineering Drafting (927001) (NWSCC Dual Enrollment)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite:** | **Fee: None** |
| **Course Description:**This course provides an introduction to basic Computer Aided Drafting and Design (CADD) functions and techniques, using "hands-on" applications. Topics include terminology, hardware, basic CADD and operating system functions, file manipulation, and basic CADD software applications in producing softcopy and hardcopy. Upon successful completion of this course, students will earn college credit for Drafting through NWSCC. NWSCC tuition fee may be waived if funds available. **This course is taught at the Franklin County Career Technical Center.** | | | |

| **Course: Industrial Maintenance / Engineering (542521)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: None** |
| **Course Description:**This is the first of 3 required one-credit courses in the Industrial Maintenance Mechanical Technologies Pathway. It is designed to complete all core requirements for NCCER Core credentialing and to provide students with fundamental knowledge and skills emphasizing use of hand tools, power tools, theory and practice for use in the Industrial Maintenance industry. This entry-level course is required for NCCER Industrial Maintenance Mechanical Level I credentialing.**This course is taught at the Franklin County Career Technical Center.** | | | |

| **Course: Painting and Refinishing I (570030)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: None** | **Fee: $10 Per Semester** |
| **Course Description:**This is a one-credit course designed to provide students with an introduction to current technologies in the basic principles of automotive finishes.**This course is taught at the Franklin County Career Technical Center.** | | | |

| **Course: Painting and Refinishing II (570031)** | | | |
|---|---|---|---|
| **Grade: 10-12** | **Credit(s): 1** | **Prerequisite: Painting and Refinishing I** | **Fee: $10 Per Semester** |
| **Course Description:**A one-credit course that provides students with specialized classroom and laboratory experiences in the application of various topcoats. **This course is taught at the Franklin County Career Technical Center.** | | | |

# Dual Enrollment Course Offerings

(Students receive both high school and college credit for courses that they pass. Additional enrollment requirements must be met according to partner college.)

| RHS Course Name | College Course | Partner College | Cost for Students | Location of Class |
|---|---|---|---|---|
| Introduction to Early Care and Education | CHD 100 | NWSCC | **Free | RHS Campus |
| Creative Experiences for Young Children | CHD 202 | NWSCC | **Free | RHS Campus |
| Emergency Medical Service (EMS) | EMS 111 and EMS 119 | NWSCC | **Free | RHS Campus |
| English 101 | ENG 101 | NWSCC | *400+ | RHS Campus |
| English 102 | ENG 102 | NWSCC | *400+ | RHS Campus |
| Industrial Maintenance | INT 102 | NWSCC | *Free | Franklin County CTE |
| Math 100 | MTH 100 | NWSCC | *400+ | RHS Campus |
| Math 112 | MTH 112 | NWSCC | *400+ | RHS Campus |
| Medical Terminology | MAT 101 | NWSCC | Free | RHS Campus |
| Pre-Engineering / Drafting | N/A | NWSCC | **Free | Franklin County CTE |
| Speech | COM 201 | UNA | *400+ | RHS Campus |
| Welding I and II | WDT 108 | NWSCC | **Free | RHS Campus |
| Welding III and IV | WDT 109 | NWSCC | **Free | RHS Campus |

***Costs are approximate and will be determined by the partner college.**

****Course is free based on grant receipt from partner college. If the college does not receive the grant for the upcoming school year, the course will not be free. Students may only take free courses in one CTE pathway.**

| Russellville High School<br>Athletic Course Codes | | | | |
|---|---|---|---|---|
| 240017 | Varsity Baseball I | | 240039 | Varsity Golf III |
| 240018 | Varsity Baseball II | | 240040 | Varsity Golf IV |
| 240019 | Varsity Baseball III | | 240041 | Varsity Soccer I |
| 240020 | Varsity Baseball IV | | 240042 | Varsity Soccer II |
| 240021 | Varsity Basketball I | | 240043 | Varsity Soccer III |
| 240022 | Varsity Basketball II | | 240044 | Varsity Soccer IV |
| 240023 | Varsity Basketball III | | 240045 | Varsity Softball I |
| 240024 | Varsity Basketball IV | | 240046 | Varsity Softball II |
| 240025 | Varsity Cheerleading I | | 240047 | Varsity Softball III |
| 240026 | Varsity Cheerleading II | | 240048 | Varsity Softball IV |
| 240027 | Varsity Cheerleading III | | 240053 | Varsity Tennis I |
| 240028 | Varsity Cheerleading IV | | 240054 | Varsity Tennis II |
| 240029 | Varsity Cross Country I | | 240055 | Varsity Tennis III |
| 240030 | Varsity Cross Country II | | 240056 | Varsity Tennis IV |
| 240031 | Varsity Cross Country III | | 240057 | Varsity Track and Field I |
| 240032 | Varsity Cross Country IV | | 240058 | Varsity Track and Field II |
| 240033 | Varsity Football I | | 240059 | Varsity Track and Field III |
| 240034 | Varsity Football II | | 240060 | Varsity Track and Field IV |
| 240035 | Varsity Football III | | 240061 | Varsity Volleyball I |
| 240036 | Varsity Football IV | | 240062 | Varsity Volleyball II |
| 240037 | Varsity Golf I | | 240063 | Varsity Volleyball III |
| 240038 | Varsity Golf II | | 240064 | Varsity Volleyball IV |

# Russellville High School
## Clubs / Extracurricular Opportunities

| **Clubs** | Students Against Destructive Decisions (SADD) |
|---|---|
| 28+ and 30+ ACT Clubs | Scholars' Bowl |
| A cappella Ensemble | Science Club |
| ACT Rising Club | Skills USA (Cosmetology and Automotive Technology) |
| America History Honors Club | Spanish Club |
| Annual & Newspaper Staff | Student Booster Club |
| Art Club | Student Council |
| Band: Marching, Concert, and Percussion Ensemble | TigerVision |
| Chemistry Club | **Athletics** |
| Chorus | Boys Baseball (Varsity and Junior Varsity) |
| Cosmetology Club | Boys Basketball (Varsity and Junior Varsity) |
| Christian Students United (CSU) | Boys Cross Country |
| Drama | Boys Football (Varsity and Junior Varsity) |
| Educators Rising | Boys Golf |
| Future Business Leaders of America (FBLA) | Boys Soccer |
| Family, Career, and Community Leaders of America (FCCLA) | Boys Tennis |
| Future Farmers of America (FFA) | Boys Track |
| Future Health Professionals (HOSA) | Girls Basketball (Varsity and Junior Varsity) |
| Junior Reserve Officers Training Corps (JROTC) | Girls Cross Country |
| Key Club | Girls Cross Country |
| Library / Media Cub | Girls Golf |
| Miss RHS | Girls Cheerleading (Varsity and Junior Varsity) |
| Mu Alpha Theta (Math Club) | Girls Soccer |
| Musical Theatre | Girls Softball (Varsity and Junior Varsity) |
| National Honor Society (NHS) | Girls Tennis |
| National Technical Honor Society (NTHS) | Girls Track |
| RCS Engineering (Robotics and Rocketry) | Girls Volleyball |
| RCS Youth Leadership Academy | |