RIPLEY HIGH SCHOOL

Programs of Study
2026 – 2027

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Ripley, WV 25271
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http://boe.jack.k12.wv.us/o/rihs

RIPLEY HIGH SCHOOL

MISSION STATEMENT

The mission of Ripley High School is to equip students for life-long learning through lessons in academics, accountability, and attitude.

VISION STATEMENT

Ripley High School will provide a safe and productive learning environment in which students can communicate effectively, think critically, solve problems and are technologically literate through a variety of curricular and extracurricular activities. Through a challenging course of study with high standards, students will become responsible learners who can not only work collaboratively, but also be accountable for their own academic and developmental progress.

Ripley High School Administration
Jeff Banton, Principal
Natalie Garner, Assistant Principal
Michael Showalter, Assistant Principal

*Information in the Programs of Study is as accurate as possible at the time of printing. Changes to WVBOE policy, WV Code or available staff may require revisions of this document at any time.

The Jackson County Board of Education does not discriminate on the basis of sex, race, color, religion, age, disability, or national origin in employment in the administration of any of its educational programs and activities.

MESSAGE FROM THE SUPERINTENDENT

Dear Students and Parents:

Jackson County High Schools have excelled over the years in offering a variety of classes and programs with the goal of meeting the needs of our students in the ever changing world. Our high schools have worked tirelessly to provide students with great opportunities based on interests and skills needed to thrive in post-secondary education or the immediate workforce. It is imperative that students plan their course pathways carefully, while still having the ability to experience different programs and classes which could lead to other interests in the future.

This **Programs of Study** guide is being provided to help students and parents plan for the high school years of study. Students and parents are encouraged to carefully consider the types of career choices being pursued, and then choose the program that will provide the best education for that particular choice. School counselors, teachers, and administrators are available to provide information regarding educational requirements; they can and will recommend the appropriate courses to best prepare for college/advanced study or technical/vocational career choices. Please discuss your plans with school counselors, teachers, and/or administrators as you study this guide.

Students, along with their parents, must work closely with school personnel to help devise a plan to help students reach their dreams and goals. Planning and hard work can make your goals and dreams a reality. Our goal for all students enrolled in Jackson County Schools is for each to graduate "Prepared for Success" to 1) continue their **education**, 2) **employ** into a successful career, or 3) **enlist** in our armed services. If we – students, parents, teachers, counselors, and administrators – work together, this goal will be achieved!

Sincerely,

William P. Hosaflook
Superintendent

Jackson County Board of Education
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GENERAL INFORMATION

SCHEDULING INFORMATION

All students shall be scheduled for the full instructional day for all four years. No classes may be audited.

DUAL CREDIT

Numerous options are available for students wanting to take courses for dual high school/college credit. Students must have a cumulative GPA of 2.00 or above. These classes are taught at Ripley High School, based on student and staff availability. Students taking dual classes **do** receive weighted grades. These classes are recommended for the highly motivated, disciplined student, and are offered at a greatly discounted rate.

Any student signing up for College Math should have completed Algebra I, Algebra II and Geometry with a minimum grade of "C", ACT or SAT score requirement determined by the college.

Many colleges offer opportunities for students to take college courses online while in high school, even though they are not considered weighted dual credit courses. Only dual credit classes taught by Jackson County staff receive a weighted grade.

RHS Course	1st Semester Dual Credit Class	Semester 1 Prerequisite	2nd Semester Dual Credit Class	Semester 2 Prerequisite	College	Credits per Semester
English 11	English 101E	N/A	English Literature 150	D or better in ENG 101E	WV State	3
English 12	English 102	D or better in ENG 101/101E	Communications 100	N/A	WV State	3
English 12	English 101E	N/A	English 102	D or better in ENG 101E	WV State	3
History 11	History 208	D or better in ENG 101E or taken concurrently with ENG 101E	History 209	N/A	WV State	3
History 12	State & Local Politics	C or better in ENG 102 or taken currently with ENG 102	Personal Finance	D or better in ENG 101E and D or better in MATH 111+	WV State	3
History 12	Political Science 101	D or better in ENG 102 or taken concurrently with ENG 102	Personal Finance	D or better in ENG 101E and D or better in MATH 111+	WV State	3
Math 11 or 12	Math 119E Algebraic Methods	N/A	Math 120 College Algebra	D or better in MATH 119E and ACT Math 21+ or SAT Math 500+	WV State	3
Math 11 or 12	Math 120 College Algebra	D or better in MATH 119E or ACT 21+ or SAT 500+	Math 102 College Trigonometry	D or better in MATH 120 and ACT Math 23+ or SAT Math 540+	WV State	3
Elective-Sport Medicine/Ath. Trn. Year 1	Health Providers' First Aid HS222	High School Health	Intro to Athletic Training	High School Health and HS 222	Marshall University	3
Elective-Sport Medicine/Ath. Trn. Year 2	Practical & Emerging Tech AT HS212	High School Health HS222 & HS 215	Personal Health HS220	High School Health and HS 222, HS 215 and HS 212	Marshall University	3
Elective	Floriculture Agri 223	Floriculture			WVUP	3
Elective-Advance Manufacturing Program Year 1	ELEC 110 Introduction to Elec. Tech	N/A	ELEC 112 Inter. AC/DC Apps & Symbols	N/A	WVUP	3
Elective-Advance Manufacturing Program Year 2	IM 126 Intro. To Main. Mech.	N/A	MATH 103 ENG 107	N/A	WVUP	3

All WV State and Marshall University courses are free through the Level Up Program, depending on Level Up State funding. Course requisites are established by each individual college.

ADVANCED PLACEMENT CLASSES

The Advanced Placement Program (AP) offers students the opportunity to take challenging, college-level courses while still in high school. Students may earn college credit by successfully completing end of course exams. (College credit for AP exam scores is determined by the individual college or university. Check college catalogs for specific AP credit policies.)

HONORS CLASSES

The honors curriculum is designed for outstanding students identified as having potential beyond that of the average high school student. Students who are eligible to participate in the honors programs should have achieved at least two of the following three criteria:

a. Demonstrated exceptional ability and interest in the content area through past experiences;
b. Obtained the prerequisite knowledge and skills to perform in these programs; or
c. Recommended by the student's former or present teacher.

PHYSICAL EDUCATION

West Virginia Board of Education Policy 2510, Foundations for High-Quality High School, gives a county flexibility to issue the physical education graduation required credit to high school students. Jackson County has adopted that high school students earn their required physical education credit through a high school physical education class or through two seasons of an WVSSAC extra-curricular/interscholastic approved activity. These activities include: Archery, Baseball, Basketball, Cross Country, Cheerleading, Football, Golf, Marching Band, Softball, Soccer, Tennis, Track, Volleyball, Wrestling and Jackson County Schools Show Choir.

WEIGHTED CLASSES

Advanced Placement, as well as board approved dual credit classes, will be the only courses weighted. AP students must successfully complete the entire course and the AP exam to receive the weighted credit. Dual credit college courses only require a student to pass the class to receive the weighted grade.

SEMESTER EXAM POLICY

All core (Math, English, Science and Social Studies) and higher education classes are required to give a semester exam, despite the student's standing grade wise or attendance wise.

A semester exam, as a learning tool, is a summative and evaluative tool which takes place at the conclusion of each semester. The dates and schedule of semester exams will be announced prior to the time in which the exams will take place. A semester exam may be a presentation, project, paper/pencil test, LMS assessment or any other summative activity decided at the discretion of the teacher.

Individuals who miss a semester exam will be allotted a make-up exam opportunity prior to the close of the semester. In a typical semester, there will be a designated exam make-up date.

The semester exam shall not exceed 20% of the final grade, nor be less than 10% of the final grade.

The rescheduling / cancellation of semester exams may be exercised due to unforeseen or extenuating circumstances at the discretion of school administration.

HONOR SOCIETY

Membership in the National Honor Society is one of the highest honors that can be awarded to a high school student. To be eligible for membership consideration, students must have a cumulative grade point average of 3.6 on a 4.0 scale. All students who are eligible scholastically will be notified and told that they must complete the Student Activity Form. All faculty members will be invited to rate each student on a scale of 1 to 4 on service, leadership, and character. Upon receipt of the faculty ratings, averages are computed for each student for each quality, and the following formula employed to determine candidates:

GPA - x3
Service Average - x1
Leadership Average - x1
Character Average - x1

These averages are added then divided by 6 to determine the student's final average. A student must be rated by at least six teachers and must have a final overall average of 3.60.

PROMOTION

In high school, promotion is made by credit earned. Failure of a required subject indicates that it will be necessary to repeat that course. Grade placement is determined by credits successfully completed prior to the start of the school year. The following standards are set for grade placement:

Grade 10 – 6 credits Grade 11 - 12 credits Grade 12 – 19 credits

GRADUATION HONORS CUM LAUDE SYSTEM

Beginning with the graduating class of 2027, Jackson County Schools will begin using only the Cum Laude system to recognize high academic achieving students. Jackson County Schools recognizes all graduating students who have challenged themselves at the highest level, regardless of course of study. Honors will be based on a weighted grade point average scale. The final Grade Point Average (GPA) for the Graduation Honors Cum Laude System will be based on the credits earned at the end of the final semester of the student's senior year. Honor graduates will be recognized as Summa Cum Laude, Magna Cum Laude, and Cum Laude according to GPA standards set by each of the two (2) high schools.

VIRTUAL SCHOOL

The WV Department of Education is offering online courses through their virtual school. Please contact the Librarian at 372-7355 for more information or visit the website at http://wveis.k12.wv.us/vschool/courses/coursecatalog.cfm

CREDIT RECOVERY

Credit Recovery opportunities are available during the school year through PLATO and Summer School. See your counselor for information.

WV EDGE - HIGH SCHOOL COURSES FOR COLLEGE CREDIT

Students who are interested in the Tech Prep Curriculum, which leads to a two-year associate degree at WV's community and technical colleges, are encouraged to take advantage of this opportunity to receive college credit at no charge. Please contact Mrs. Ball for more information at (304) 372-7355 or visit the State Tech Prep Web Site – www.wvtechprep.wvnet.edu.

MASTERY TESTING FOR CREDIT

Jackson County Schools, in accordance with WV Board of Education Policy 2510, has adopted a policy regarding Mastery Testing for Credit. Students requesting the opportunity to earn credit through tested mastery shall do so for the purpose of pursuing a higher level course and for meeting graduation requirements. See your counselor for information.

DISABLED & DISADVANTAGED STUDENTS

Academic and vocational offerings are available to all students including handicapped and disadvantaged individuals. Students with disabilities are placed according to the guidelines in their Individualized Education Plan (IEP). See counselors for details when scheduling or creating your plan of study.

EXTRACURRICULAR ACTIVITIES

Students who wish to participate in extracurricular activities must have a "C" average (2.0) on a non-weighted scale for the term preceding the term in which they wish to participate.

NCAA

All students interested in participating in sports at the collegiate level must register with the NCAA Clearinghouse. See your counselor for detailed information or visit www.ncaaclearinghouse.net on the web.

EARLY GRADUATION REQUIREMENTS

The WV State Board of Education provides an exception in the attendance requirements for early graduation. The guidelines from the State Department of Education require that:

A. The student follows a planned educational program which leads to early graduation.
B. The student is accepted by a college or university.
C. The student's scholastic record is such that a projection for success in college is favorable.

With the above framework, students requesting early graduation from Jackson County Schools will adhere to the following guidelines:

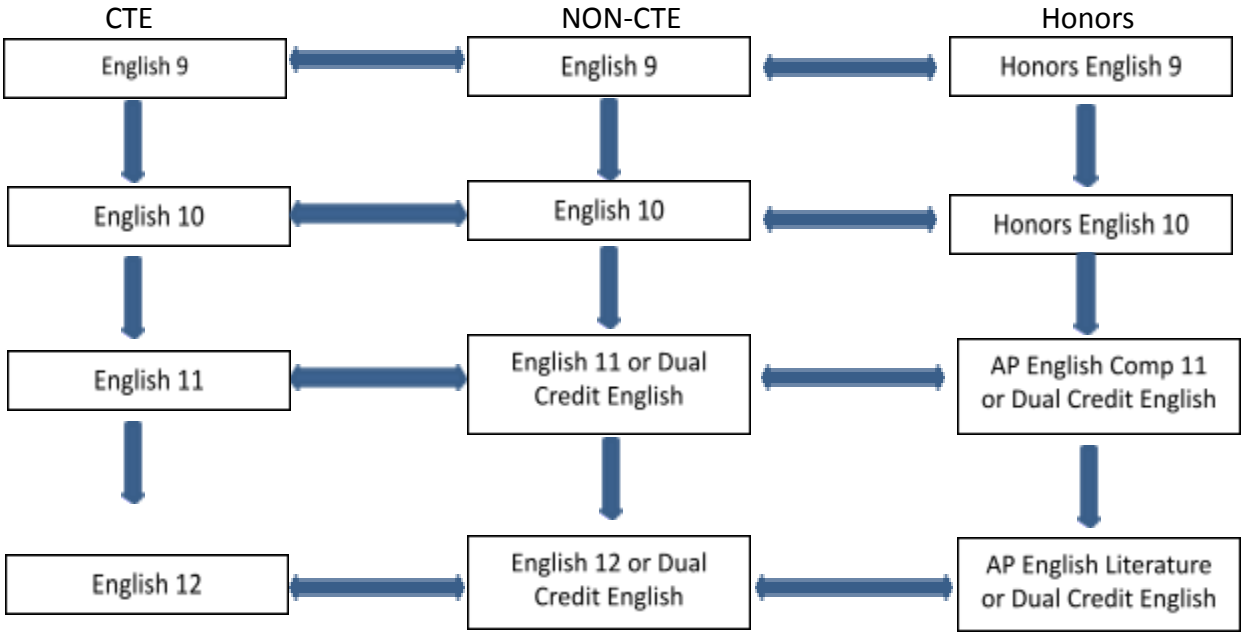
1. Must have achieved a 3.75 grade point average at the end of the third term, and maintain a 3.75 grade point average through the fourth semester.
2. Must have received a letter of acceptance from an accredited college or university.
3. Must submit a written letter of intent to the counseling office and principal by January 31 of their sophomore year; and
4. Along with their parents, must have a formal interview with school officials to establish written agreement of the following regulations:

d. The student will continue to be enrolled in the appropriate junior home room and attend functions designated for juniors (exception: Students will be permitted to participate in baccalaureate and graduation ceremonies);
e. The student will not re-enroll in high school during what would be their normal senior year, after having completed all requirements for graduation; and
f. The student will not be eligible for consideration as valedictorian or salutatorian since the student's grade point average will not be included in the normal ranking of seniors.

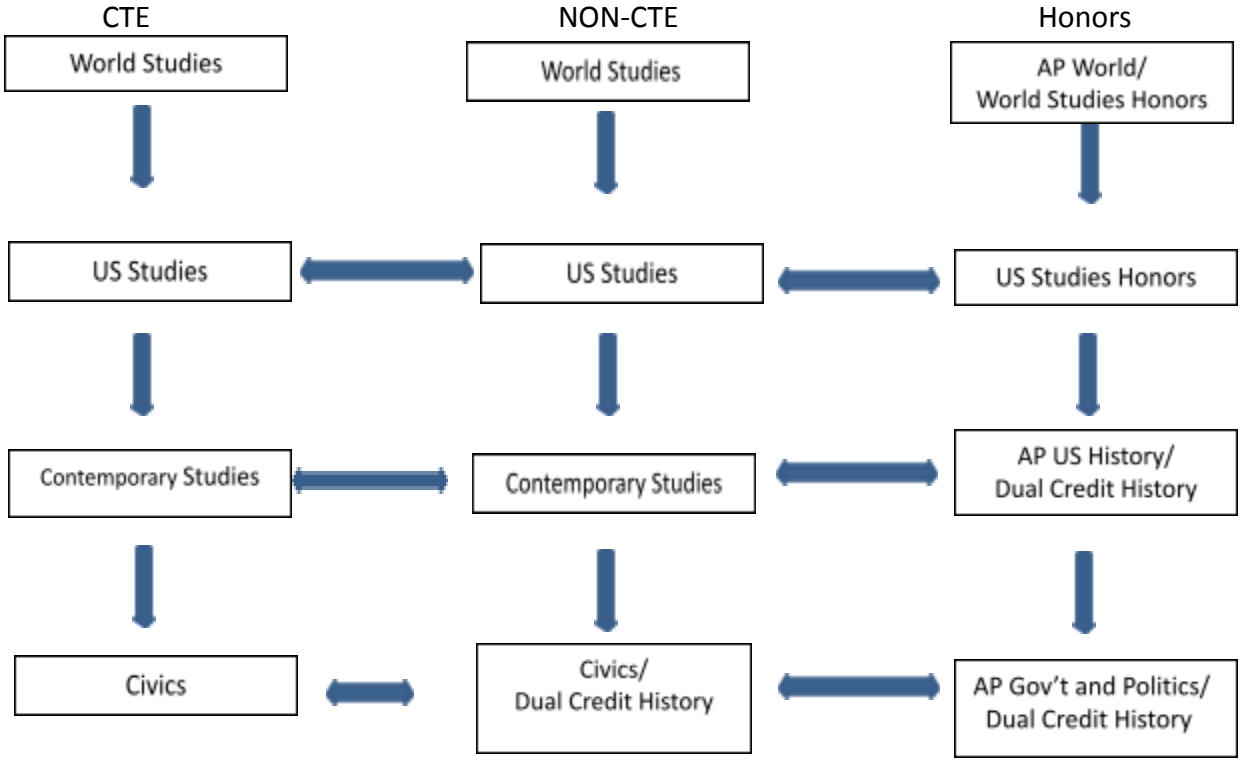
OPTION PATHWAY PROGRAM

The Option Pathway Program is designed for students ages 16, 17 or 18 who have fallen behind their cohorts (peers) and cannot meet graduation requirements “on time” in the regular program. A student must score a state minimum TABE (Tests of Adult Basic Education) in reading and mathematics to qualify and enter the Option Pathway Program. A second-semester junior or a senior must already be enrolled in and passing a CTE pathway unless the school has a CTE pathway that requires only one year to complete. Students will study for the current West Virginia approved high school equivalency exam in the options classroom. Students will earn their high school diploma if they passed all portions of the high school equivalency exam and are an approved CTE completer. This program is administered through Roane-Jackson Technical Center.

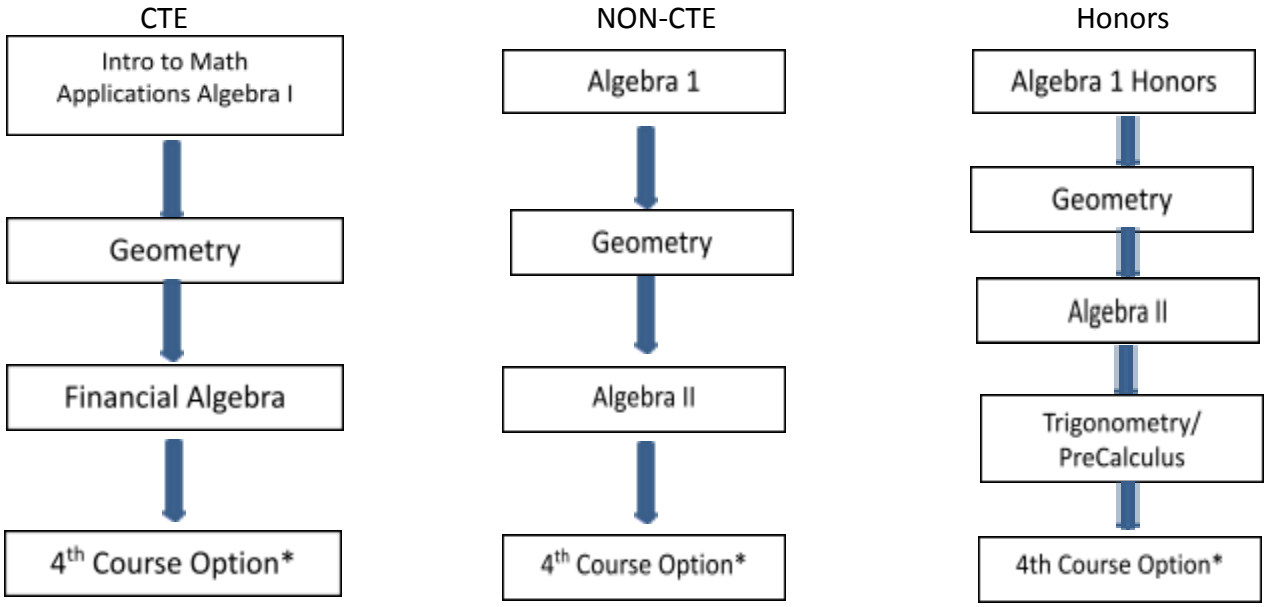
English



Social Studies

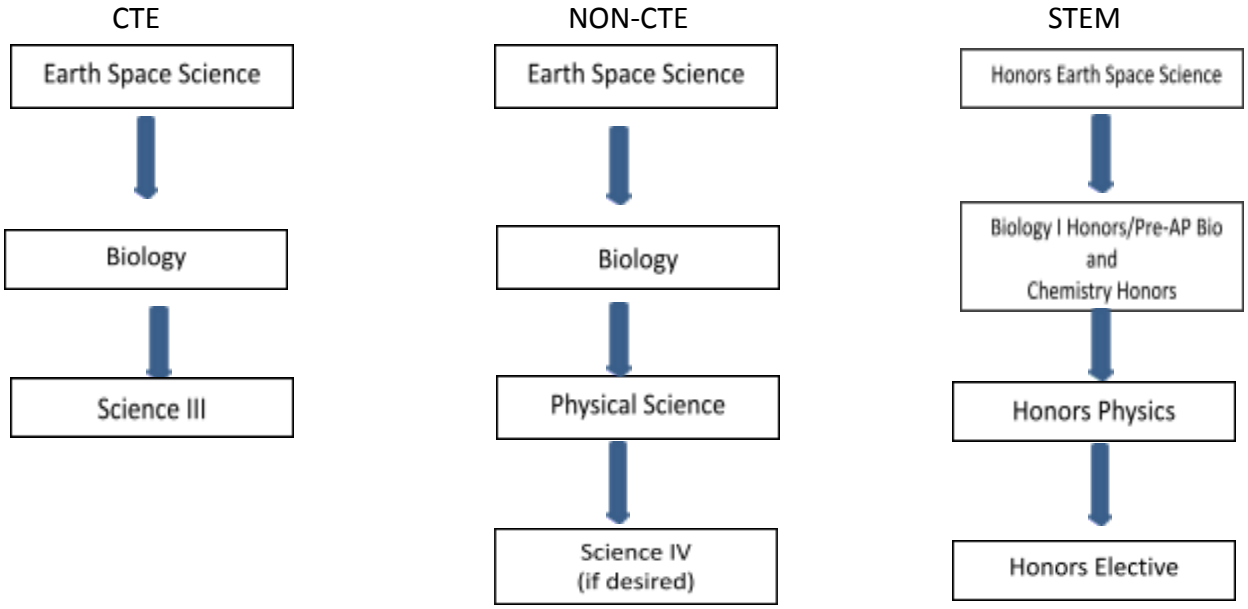


Math



***4th Math Course Options:** Reminder: Prerequisites must be accomplished for each individual class.
Transition Math for Seniors, Financial Algebra, Trigonometry/Precalculus, AP Statistics, AP Precalculus, AP Calculus, Statistics/Probability, College Algebraic Methods/College Algebra, College Algebra/College Trigonometry.

Science



CTE Courses Science III Electives
Human Anatomy & Physiology
Environmental Science
Forensic Science
Physical Science

NON-CTE Courses III & IV Electives
Environmental Science
Physics
Anatomy & Physiology
Biology II
Forensic Science
Physical Science
Chemistry I

Honors Electives III & IV
Honors Chemistry
Chemistry II
AP Chemistry
AP Biology
AP Environmental Science
Pre-AP Biology
Honors Physics
Zoology

RHS GRADUATION REQUIREMENTS - 26 CREDITS REQUIRED

Subject	Graduation Requirements	Personalized Course Options
English Language Arts (ELA) **4 credits**	**3 Prescribed Credits** English 9 English 10 English 11 **1 Additional Personalized Credit from Course Options** An Advanced Placement (AP) or Dual Credit ELA may be substituted for any ELA Credit (for Grades 11 and 12 RHS).	**Recommended College and Career Readiness Course Options and Courses Required to be Offered** One credit from English 12 or Transition English Language Arts for Seniors or Creative Writing & Reading or Technical English Language Arts **Additional Course Options** English Language Arts College Courses County created and Approved English Language Arts Courses based on student need and interest ensuring state standards for English are met.
Mathematics **4 credits** **Note:** **Math class required every year of high school per county policy.**	**2 Prescribed Credits** Algebra I Geometry **2 Additional Personalized Credits from Course Options** An AP or Dual Credit Mathematics course may be substituted for an equivalent Mathematics credit.	**Recommended College and Career Readiness Course Options and Courses Required to be Offered** Algebra II, Trigonometry Pre-calculus, Applied Statistics, Transition Mathematics for Seniors **Additional Course Options** Introduction to Mathematical Applications AP Computer Science A Statistics AP Statistics AP Precalculus AP Calculus Mathematics college courses County-created and Approved Mathematics Courses higher than Algebra II Financial Algebra
Science **3 credits**	**2 Prescribed Credits** Earth and Space Science (Grade 9) Biology or AP Biology (Grade 10) **1 Additional Personalized Credit from Course Options** An AP or Dual Credit Science course may be substituted for an equivalent Science credit.	**Recommended College and Career Readiness Course Options and Courses Required to be Offered** Chemistry Human Anatomy and Physiology Physics Physical Science **Additional Course Options** Environmental Science Forensics County-created and Approved Science Courses **CTE Courses:** Principles of Engineering Natural Resources Management Therapeutic Services (I, II, and III)

Social Studies **4 credits**	**3 Prescribed Credits** 1 Credit from World Studies or an AP Social Studies Course 1 Credit from United States (US) Studies* or US Studies Comprehensive, or AP US History 1 Credit from Civics (includes Personal Finance) or AP Government and Politics** **1 Additional Personalized Credit from Course Options** *Beginning with the 2020-2021 9th grade cohort students who take US Studies must utilize Contemporary Studies as their Personalized Credit. **Students who utilize AP Government & Politics or Dual Credit Civics must be provided instruction in the personal finance standards found in Civics.	**Recommended College and Career Readiness Course Options and Courses Required to be Offered** Contemporary Studies Economics Geography World Studies **Additional Course Options** AP Social Studies Courses Psychology Social Studies college courses Dual Credit Courses Sociology County-created and Approved Social Studies Courses
Personal Finance **1 credit** **Beginning with the 2024-2025 freshman cohort, Personal Finance is a required credit.**	**1 Prescribed Credit** Personal Finance (1451) West Virginia Career-Readiness Programs of Study/Standards for Career Technical Education (Policy 2520.13)	**Note:** While the Personal Finance credit will go into effect with the 2024-2025 freshman cohort, counties may choose to implement this requirement early.
Physical Education (PE) **1 credit**	**1 Prescribed Credit** PE 9-12	
Health **1 credit**	**1 Prescribed Credit** Health 9-12	
The Arts **1 credit**	**1 Personalized Credit** An AP or Dual Credit Arts course may be substituted for any Arts credit. The Arts (Policy 2520.9)	**Required to be Offered** Four sequential courses in music (both choral and instrumental), visual art (general art and/or studio art), dance, theater **Course Options** Arts Offerings Arts College Courses Creative Writing **The following CTE courses will fulfill the 1 credit Arts requirement:** Fundamental of Illustration (1851) Fundamentals of Graphic Design (1857) Illustration (1861) Graphic Design Applications (1859) Ornamental Metal Work (1982) Digital Imaging/Multimedia I (1431) Drafting Techniques (1727) Floriculture (0213) Digital Photography (1515) Millwork & Cabinetmaking (2126 or 2127 or 2128 or 2129)

Personalized Education Plan (PEP) 4 credits	**4 Personalized Credits** 4 credits in a CTE Program of Study or 4 credits that lead to post-secondary goals.	Each student's PEP will identify a career cluster and either a CTE program of study or course work for the 4 credits that will lead directly to college placement, attainment of an industry-recognized certificate or license, a workforce training program, or job placement. Best practices encourage students to experience the following: an AP, dual credit, and/or Advanced Career (AC) course with corresponding examination, 2 credits in one world language, an additional science, a computer science, an online/digital learning experience, Grow Your Own (GYO) WV Teaching Pathway, entrepreneurial experiences, and/or 4 credits culminating in acquisition of industry-recognized CTE credential focused on career aspirations..

COURSE DESCRIPTIONS

DUAL COURSE CLASSES THROUGH WEST VIRGINIA STATE UNIVERSITY

BA312 PERSONAL FINANCE
HS: Personal Finance Grade: 12
An overview of personal and family financial planning with an emphasis on financial record-keeping, planning your spending, tax planning, consumer credit, making buying decisions, purchasing insurance, selecting investments, and retirement and estate planning.
Prerequisite(s): Grade of "D" or better in ENGL 101 or 101E and grade of "D" or better in Math 111+.

MATH 119E ALGEBRAIC METHODS
HS: Quantitative Reasoning Grade: 11-12
Quadratic equations, radical expressions, complex numbers, systems of linear equations, graphs of functions, exponentials and logarithms.

MATH 120 COLLEGE ALGEBRA
HS: Algebra III Grade: 11- 12
Equations and inequalities, functions, systems of equations and inequalities, graphing, rational expressions, radical expressions, and applications of the above.
Prerequisite(s): Grade of "D" or better in MATH 119E and ACT Math score of 21+ or SAT Math score of 500+.

MATH 102 COLLEGE PLANE TRIG
HS: Applications of Trigonometry Grade: 11- 12
Trigonometry functions and graphs, identities and equations, solving triangles, vectors, polar coordinates, De Moivre's Theorem.
Prerequisite(s): Grade of "D" or better in MATH 120 and ACT Math score of 23+ or SAT Math score of 540+. .

MUS 107 MUSIC APPRECIATION
HS: Music Appreciation Grade: 11- 12
An introduction to music for the non-major through historical survey and the development of listening skills. The individuals in the class will expect to understand the basic elements of music in order to develop competence in the aural analysis of music. The development of music will be examined in the light of historical events, and will be integrated with developments in the other arts, literature, and the humanities.

ENG 150 INTRO TO LITERATURE
HS: English 11 Grade: 11
A study of poetry, fiction and drama. The course stresses basic themes and formal elements found in literature.
Prerequisite(s): Grade of "D" or better in English 101E.

ENG 101E ENGLISH COMPOSITION I
HS: English 11 Grade: 11- 12
This course emphasizes writing and reading as elements of active learning and critical thinking. Prerequisite(s): Grade of a "C" in the previous year's English class.

ENG 102 ENGLISH COMPOSITION II
HS: English 12 Grade: 12
This course primarily focuses on the research writing process for a broad academic community. It covers basic research inquiry, use of the library with electronic and non-electronic sources and techniques of formal writing. Attention is given to argumentation and critical thinking skills.
Prerequisite(s): Grade of "D" or better in ENG 101/101E.

COMM 100 SPEECH COMMUNICATION
HS: English 12 Grade: 12
A practical humanistic approach to interpersonal, small group and public communications. Focus is on the communicative event and its context with special emphasis on communication principles and skills. Used as a semester of Senior English for those who completed 101 and 150 as juniors.

HIST 207 AMERICAN HISTORY TO 1865
HS: History Elective Grade: 11-12
This course will examine Native America, the European conquest, cultural encounters between Africans, Europeans, and Native Americans; the colonial era, slavery, revolutionary and Early National periods, westward expansion, nationalism, industrialization, and sectional strife through the Civil War and Reconstruction, centering on issues of race, class, society, politics and power.
Prerequisite(s): Grade of "D" or better in English 101/101E or taken concurrently with English 101/101E.

HIST 208 AMERICAN HISTORY FROM 1865

HS: Contemporary Studies Grade: 11

This course focuses on the economic and political maturation of the United States from Reconstruction through the present. The influence of industrialization and increased government activity on the increasingly diverse American people and foreign powers are studied in the context of world-wide imperialism, the Gilded Age, Progressivism, World Wars and the Civil Rights movement in the American Century.

Prerequisite(s): Grade of "D" or better in English 101/ 101E or taken concurrently with English 101/101E.

POSC 101 AMERICAN GOVERNMENT

HS: Civics Grade: 12

The organization and nature of the federal political system, with special emphasis placed on the U.S. Constitution. The role of non-governmental actors (political parties, interest groups and the media) is also analyzed.

Prerequisite(s): Grade of "D" or better in English 102 or taken concurrently with English 102.

POSC 204 STATE & LOCAL POLITICS

HS: Civics Grade: 12

Politics and policy at the state and local level in the American political system. Areas for study include constitutional, cultural and financial constraints on state and local politics; community power structures; state legislatures; governors and other elected executives; and judicial institutions.

Prerequisite(s): Grade of "C" or better in English 102 or taken concurrently with English 102.

HIST 209 WV HISTORY

HS: WV History/History Elective Grade: 11-12

A survey of West Virginia's unique contribution to the historical, geographical, governmental, political and social development of the Appalachian region.

DUAL COURSE CLASSES THROUGH WVUP

AGRI 223 FLORICULTURE

HS: Floriculture Grade: 11-12

A dual credit course with college credit from WVUP. This course covers floral design, business planning and operations, marketing, and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities.

Prerequisites and Other Notes:: FLORICULTURE

ELEC 110 INTRODUCTION TO ELECTRICAL TECHNOLOGY Grade 11-12

HS: Electrical Trades 1

Introduction to safety and hazards and applications of electricity related to technical fields. Topics include variables, parameters, quantities, relationships, units, electrical theory, introduction to electrical circuits, series, parallel, series-parallel circuits and electrical drawings.

ELEC 112 INTERMEDIATE AC/DC APPLICATIONS & ELECTRICAL SYMBOLS Grade 11-12

HS Electrical Trades 3

Intermediate applications for AC/DC circuits and electrical symbols. Students will learn concepts of 3 phase systems, magnetism and electromagnetism, electric motors, control circuits and transformers. Students will learn safe work practices for electricity.

IM 126 INTRODUCTION TO MAINTENANCE MECHANICS Grade 11-12

HS: Electrical Trades 4

Introduction to maintenance mechanics is designed to introduce students to the fundamentals of maintenance mechanics, with a focus on basic math skills, geometry, triangle trigonometry, safety, measuring devices and print reading. The course consists of both lecture and hands-on lab sessions to provide students with theoretical knowledge and practical skills required for maintenance mechanic roles.

MATH 103

HS: Transition Mathematics for Seniors Grade 11-12

Course will provide students with the basic arithmetic and geometric concepts to be successful in various industries. Topics to be studied are: operations (whole number, fraction, decimal, signed number); percent; formulas (area and volume, surface area); systems (metric, USCS); graphs (bar, line, circle); shop measuring devices; solving algebraic equations; ration and proportions; right triangle trigonometry; and histograms.

ENGLISH 107 Grade 11-12

HS: Technical English Language Arts

This course develops technical writing skills by applying various approaches used to communicate in technical environments. Includes writing structural descriptions, operational descriptions, process explanations, analytical summaries and other technical reports.

DUAL COURSE CLASSES THROUGH MARSHALL

HS222 HEALTH PROVIDERS' FIRST AID
HS: Foundations of Sports Medicine Grade Level: 11-12
The purpose of this course is to provide instruction in first aid and emergency care procedures. Training and practice are the keys in emergency care procedures. This will include providing prompt, effective emergency care in the home, on the job and out of doors. This course will contain important skills to prepare each individual with various aspects of emergency procedures.
Prerequisites and Other Notes:: Health I and II.

HS215 INTRO TO ATHLETIC TRAINING
HS: Advanced Principles of Sports Medicine Grade Level: 11-12
This is an introductory course in various techniques and skills of athletic training/sports medicine. This will include the application of anatomy knowledge in the evaluation of injuries common to sports programs as well as
various wellness and rehabilitation programs. In addition, discussion and application of prevention programs will be included.
Prerequisites and Other Notes: Health I and II and Athletic Training I.

HS212 PRACTICAL AND EMERGING TECH AT
HS: Practical Applications of Sports Medicine Grade Level: 12
This course introduces students to taping, wrapping and advanced emergency care techniques used in athletic training.
Prerequisites and Other Notes: Health I and II and Athletic Training I and II.

HS220 PERSONAL HEALTH
HS: Athletic Injury Recognition and Prevention Grade Level: 12
This course addresses fitness and weight control and modes of change. Primary focus is on goals in nutrition, label identification, nutrient assessment, weight control, and fitness and how to reach each of these safely. **Prerequisites and Other Notes:** Health I and II and Athletic Training I, II and III.

AGRICULTURAL EDUCATION

ALL AGRICULTURE CONCENTRATIONS:

INTRODUCTION TO AG, FOOD AND NATURAL RESOURCES Level 1 Completer Course for all Agriculture Concentrations
Grade Level: 9-12 Credit: 1
This course is an introductory course designed to expose students to different facets of FFA and the agriculture industry. Students will gain knowledge in animal science, plant science, leadership skills, public speaking, FFA opportunities, natural resources, agricultural mechanics and agri-business. Students will be exposed to a broad range of agriculture, food and natural resources careers. Instruction and student learning will occur through lectures, student projects, group discussions, hands on experiences, FFA experiences, CDE participation, and their SAE program. Students are encouraged to become active members of the student organization, FFA.

AGRICULTURE EXPERIENCE PROGRAM (SAE)
Level 1 Completer Course for Agriculture Concentrations Grade level: 9-12 Credit: .5
The Supervised Agricultural Experience program is a hands-on, student planned record keeping system used to apply skills learned in the classroom to real world agricultural experiences. Students are automatically enrolled in this course when participating in any agriculture course.

AGRI-BUSINESS CONCENTRATION

SCIENCE OF AGRICULTURE
Level 2 Completer Course in Agribusiness Systems Grade Level: 9-12 Credit: 1
This course expands students' knowledge of agriculture and science applications in agriculture. This course includes units in entrepreneurship, animal science, soil science, plant science, agricultural mechanics, environmental stewardship and agricultural leadership. Students will utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Continuation of FFA membership and SAE are expected.
Prerequisites and Other Notes: Introduction to Agriculture, Food and Natural Resources

AGRICULTURAL COOPERATIVE EDUCATION Grade Level: 12 Credit(s): 1-4
Agricultural Co-Op is a course taken during the student's senior year. It emphasizes the individual skills in their chosen agribusiness areas. The object of this course is to graduate a worker already adjusted to the business world. The student attends high school part of the day and works up to one-half day with teacher/employer supervision. The teacher coordinates class work with out-of-school work to enable the student to become a qualified, efficient agribusiness employee. Students may work up to fifteen hours per week during class time and may work any additional hours after school as needed by the employer. Some placement possibilities include veterinary assistant, tractor/machinery sales and service, floriculture industries, and other

agriculture related businesses. FFA membership is required. Students will be required to meet with the instructor at least bi-weekly and maintain SAE records to document work performed/skills developed.
Prerequisites and Other Notes: Seniors who have completed an Ag Science Concentration MUST submit a resume, letter of introduction, and a completed job application to the instructor PRIOR TO being accepted into this course. FFA membership and continuation of SAE is expected.

ANIMAL SYSTEMS CONCENTRATION:

ANIMAL PRODUCTION MANAGEMENT
Level 2 Completer Course in Animal Systems Grade Level: 10-12 Credit: 1
This course will cover the classification, history, characteristics, housing and equipment, feeding, handling, diseases and ailments, and reproduction of the following animal species; ferrets, chinchillas, hedgehogs, birds, fish, amphibians, reptiles, and other exotic pets. Students will also gain experience in larger animals that consist of cattle, sheep/goats, hogs and horses. Students will learn through classroom discussions, demonstrations, notes, lectures, and laboratory experiences. Laboratory activities relating to each of the species will be incorporated into the course work. Students will handle and care for animals. Students will be working with animals in the classroom, which will enhance the course materials. Students are encouraged to become active members of the student organization, FFA. Continuation of SAE is required.
Prerequisites and Other Notes: Intro to Agriculture and Food and Natural Resources. Continuation of SAE is required.

LIVESTOCK PRODUCTION:
Level 3 Completer Course in Animal Systems Grade Level: 11-12 Credit: 1
This is a specialization course designed for students interested in entering the livestock industry as a herd manager or livestock entrepreneur. The course will cover topics on nutrient management, farm planning, business planning, developing marketing plans, developing feed rations, forages, grassland management, embryo transfer and animal facilities as they apply to various livestock such as cattle, swine, sheep, goats, poultry and horses. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA.
Prerequisites and Other Notes: Intro to Ag, Food and Natural Resources, Animal Production Management. Continuation of SAE is required.
Additional Notes: Offered on alternating years with Companion Animal Care.

COMPANION ANIMAL CARE Grade: 10-12 Credit: 1
Specialization course covering grooming, animal restraint, feed rations, business planning, marketing, and facility management, for companion animals. Students engage in hands-on learning and are encouraged to participate in FFA.
Prerequisite(s): Intro to Agriculture, Food & Natural Resources
Additional Notes: Offered on alternating years with Livestock Production.

PLANT SYSTEMS CONCENTRATION:

HORTICULTURE
Level 2 Completer Course for Plant Systems Concentration Grade Level: 10-12 Credit: 1
This course is designed to be a core course in the Plant Systems concentration. This course provides instruction on the broad field of horticulture with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, customer relations, career opportunities, leadership development and entrepreneurial skills. Students will utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA.
Prerequisites and Other Notes: Intro to Agriculture, Food and Natural Resources or instructor approval. Continuation of SAE is required.

GREENHOUSE PRODUCTION AND MANAGEMENT
Level 3 Completer Course for Plant Systems Concentration Grade Level: 10-12 Credit: 1
This specialization course covers instruction that expands the scientific knowledge and skills to include more advanced scientific computations and communication skills needed in the horticulture industry. Topics include greenhouse plant production and management, bedding plant production, watering systems light effects, career planning, leadership development and entrepreneurial skills. Students will utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA.

FLORICULTURE *(May be used as an Art Credit)*
Level 3 Completer Course for Plant Systems Concentration Grade Level: 10-12 Credit: 1
This specialization course covers topics on floral design, business planning, market plan development, and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA.
(Students in Skilled Pathway concentrations may use this course for the arts credit required for graduation)

FRUIT AND VEGETABLE PRODUCTION Grade Level: 9-12 Credit: .5

This specialization course covers topics on plant nutrition, site preparation, plant selection, harvesting, equipment, value-added agriculture, insect and disease identification and control, food safety, soil management, entrepreneurship and animal control. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA.

TURF AND LANDSCAPE SYSTEMS Grade Level: 9-12 Credit: .5

This specialization course covers topics on lawn care and turf production, golf course management, irrigation systems, turf equipment and maintenance, landscape design, landscape plants, landscape maintenance, plant pruning, marketing, and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA.

POWER, STRUCTURE & TECHNOLOGY SYSTEMS CONCENTRATION:

FUNDAMENTALS OF AGRICULTURE MECHANICS

Level 2 Completer Course for PSTS Concentration Grade Level: 9-12 Credit: 1

Student's gain knowledge and skills for applying the physical science principles and principles of operation and maintenance to mechanical equipment, welding and fabrication, structures, plumbing, electrical wiring, and entrepreneurship. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students are encouraged to become active members of the student organization, FFA.

Prerequisites and Other Notes: Intro to Agriculture, Food and Natural Resources. Continuation of SAE is required. Ninth grade must be concurrently enrolled in Intro to Ag.

AGRICULTURE STRUCTURES (Alternating years with Ag Equipment)

Level 3 Completer Course for PSTS Concentration Grade Level: 10-12 Credit: 1

Students operate the company "VIKING CONSTRUCTION" in a Simulated Workplace environment to develop an understanding of course concepts. Students will develop simple sketches and plans, read and relate structural plans to specifications and building codes, estimate project costs, and use construction/fabrication equipment and tools, plan and construct agricultural equipment, buildings and facilities, and develop skills in electrical wiring and plumbing.

Prerequisites and Other Notes: Fundamentals of Ag Mechanics. Application and interview Process, Random Drug Testing. FFA membership and continuation of SAE is expected.

AGRICULTURE EQUIPMENT AND REPAIR (Alternating years with Ag Structures)

Level 3 Completer Course for PSTS Concentration Grade Level: 10-12 Credit: 1

Students operate the company "VIKING EQUIPMENT" in a Simulated Workplace environment to develop an understanding of course concepts. This course provides in-depth knowledge and skills as they relate to energy sources, lubricants, service and maintenance of machinery & equipment, and agricultural equipment operation. Students will apply principles of service and repair by troubleshooting problems and evaluating engine performance, follow manufacturer guidelines to service and repair agricultural equipment.

Prerequisites and Other Notes: Fundamentals of Ag Mechanics. Application and Interview Process, Random Drug Testing. FFA membership and continuation of SAE is expected.

NATURAL RESOURCE SYSTEMS CONCENTRATION:

NATURAL RESOURCES MANAGEMENT (May be used as a Science credit)

Level 2 Completer Course in Natural Resources Systems Grade Level: 10-12 Credit: 1

This course focuses on the scientific principles and processes related to the management of our natural resources. Topics of instruction will include soil conservation, land management, renewable and nonrenewable resources, water quality and management, forestry, wildlife management and environmental law. Students will participate in hands-on lab activities which will enhance the course materials. Students are encouraged to become active members of the student organization, FFA. Continuation of SAE is required.

Prerequisites and Other Notes: Intro to Agriculture, Food and Natural Resources or instructor approval. Continuation of SAE is required. ***This class may be used as a Science credit.***

FISH & WILDLIFE MANAGEMENT Grade Level: 10-12 Credit: 1

Level 3 Completer Course in Natural Resources Systems This course serves as preparation for a career or studies in the wildlife and natural resources industries. This course explores the importance of wildlife and recreation management to the environment and the Agricultural industry. Students will learn the identification and management of game and non-game wildlife species, fish, and their habitats as well as their ecological needs. Students will learn WV wildlife regulations and law Students will complete WV hunter education certification and WV boater certification. Students will use hands-on laboratory activities which will enhance the course materials. Students are encouraged to become active members of the student organization, FFA.

BUSINESS/MARKETING & COMPUTER EDUCATION

CAREER AND WORK SKILLS TRAINING: Grade Level: 12 Credit: 1

This course is designed as the first course to develop student understanding and skills essential for job success. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of FBLA. Students are **recommended** to complete Office Procedures-passing with a "C" or better and/or another business course.

Prerequisites and Other Notes: This is a companion course to CWST Work Experience I. Students who complete CWST I and II and CWSE I and II will be a completer in Career and Work Skills Training (CWST).

CAREER AND WORK SKILLS TRAINING II Grade Level: 12 Credit: 1

This course is designed as the second course to develop student understanding and skills that are essential for job success. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA. Students are **recommended** to complete Office Procedures-passing with a "C" or better and/or another business course.

Prerequisites and Other Notes: This is a companion course to CWST Work Experience II. Students who complete CWST I and II and CWSE I and II will be a completer in Career and Work Skills Training (CWST).

CWST WORK EXPERIENCE I Grade Level: 12 Credit: 1

This course is designed as the first course to develop student understanding and skills using on-the-job training that contributes to the overall instructional program. The instruction, through written agreement between school and employers, is a combination of study in school with employment in the appropriate field. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization FBLA. Students are recommended to complete Office Procedures-passing with a "C" or better and/or another business course.

Prerequisites and Other Notes: Students who complete CWST I and II and CWSE I and II will be a completer in Career and Work Skills Training (CWST).

CWST WORK EXPERIENCE II Grade Level: 12 Credit: 1

This course is designed as the second course to develop student understanding and skills using on-the-job training that contributes to the overall instructional program. The instruction, through written agreement between school and employers, is a combination of study in school with employment in the appropriate field. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA. Students are recommended to complete Office Procedures-passing with a "C" or better and/or another business course.

Prerequisites and Other Notes: Students who complete CWST I and II and CWSE I and II will be a completer in Career and Work Skills Training (CWST).

BUSINESS COMMUNICATIONS Grade Level: 11-12 Credit: 1

This course is designed to develop student understanding and skills in such areas as business communications. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts such as: academic foundations, ethics and legal responsibilities, communications, information technology applications, leadership and teamwork, reading strategies, listening and observation skills, oral communication skills, written communication skills, social communication skills, and career communications.

Teachers should provide each student with real world learning opportunities and instruction.

Prerequisites and Other Notes: Computer, writing and English skills. This course is an elective course to be a CTE completer in the program-Business Enterprise..

BUSINESS COMPUTER APPLICATIONS I (Microsoft Outlook, PowerPoint, Word, Excel)

Grade Level: 9-12 Credit: 1

This course is designed to develop student understanding and skills in such areas as Microsoft Outlook, Word, Excel and PowerPoint. This course prepares students for the Microsoft Word Office Specialist Exam in required areas. Students utilize problem solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers

should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: This course is a required course for completers in Business Enterprise. Passing this course and the Microsoft certification exams may earn college credit.

BUSINESS COMPUTER APPLICATIONS II (Microsoft Expert Level in Access, Excel, Word)
Grade Level: 9-12 Credit: 1
This course is designed to develop student understanding and skills in such areas as Expert Level in Microsoft Excel, Word and Access. This course prepares students for the Microsoft Excel Office Specialist Exam in all required areas. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: Passing BCA I

DESKTOP PUBLISHING Grade Level: 10-12 Credit: 1
This course is designed to develop student understanding and skills in such areas as Microsoft Publisher and Adobe In-Design, journalistic principles in design and layout of print and Web publications including integration of text and graphics and use of sophisticated hardware and software to develop and create quality materials for business related tasks. This course prepares students for the Adobe certification. Student will analyze the information and the audience and combine appropriate text graphics and design to communicate the desired message effectively. Planning and design principles are used to analyze and organize information, set up a design structure and to select or create appropriate visuals. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: This course is an elective course for completers in Information Management Concentration.

DIGITAL IMAGING/MULTI-MEDIA I Grade Level: 10-12 Credit: 1
(Students in Skilled Pathway concentrations that complete State approved career/technical courses that reflect creative and innovative arts content may substitute this course for the arts credit required for graduation)
This course is designed to develop student knowledge and skills in such areas as Adobe Photoshop & Illustrator, producing images, operating a digital camera, using imaging software, using drawing software, creating simple animations and manipulating video images. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. This course prepares students for the Adobe certification. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: This course is an elective course in the Coding, AI and Game Design Concentration and in the Information Management Concentration.

DIGITAL IMAGING/MULTIMEDIA II Grade Level: 11-12 Credit: 1
This course is designed to develop student understanding and skills in such areas as imaging, drawing, animation and video software which will be used to create advanced projects. These projects will involve advanced tools and techniques of each discipline. Teachers should provide each student with real world learning opportunities and instruction by participating in a simulated workplace "The Viking Nook". Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: Students must have completed Digital Imaging/Multimedia I with a "C" or better average. This course is an elective course in the Coding, AI and Game Design Concentration and in the Information Management Concentration.

BUSINESS AND MARKETING ESSENTIALS Grade Level: 9-12 Credit: 1
This course is designed to develop student understanding and skills in such areas as business law, communication skills, customer relations, economics, emotional intelligence, financial analysis, human resources management, information management, marketing, operations, professional development, and strategic management. Students acquire knowledge of fundamental business activities and factors affecting business, develop verbal and written communication skills, use information literacy skills, utilize job-seeking strategies, and participate in career planning. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: This course is an elective course for completers in the Business Enterprise Concentration.

KEYBOARDING Grade Level: 9-12 Credit:.5
This course develops introductory keyboarding skills essential for careers in business and marketing.

OFFICE PROCEDURES Grade Level: 11 Credit: 1
This course is offered to students who have selected Administrative Support Cluster of the Business and Marketing Program as their major field of study and to students who wish to work in the Office Cooperative Education Program during their senior year. Office Procedures course is designed to develop student understanding and skills in such areas as developing personal and employability skills, managing records, processing mail, communicating duties, keeping financial records, applying computer,

accounting, and data skills, processing business correspondence, operating office equipment, using management skills and completing office support activities. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: Students will be an active employee of the simulated workplace - "The Viking Nook". This course is an elective course for completers in the Business Enterprise Concentration.

PERSONAL FINANCE Grade Level: 9-12 Credit: 1
This course is designed to develop student understanding and skills in such areas such as money management, budgeting, financial goal attainment, credit, insurance, investments and consumer rights and responsibilities. The course culminates in a personal financial literacy workshop requiring students to share their knowledge with others. This course features a variety of activities, assessments (including multiple-choice test items) and resource lists for instructional use. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become an active member of the student organization, FBLA.

WEB PAGE PUBLISHING Grade Level: 10-12 Credit: 1
This course is designed to develop student understanding and skills in such areas as Web page design including using Web page development software, creating page layouts, adding images and frames, creating elements and components, creating tables, managing files, publishing to the Internet, creating hyperlinks, organizing tasks and using codes (markup languages). Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students will have the opportunity to acquire a certification in HTML by passing a state exam. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and other Notes: Students must have computer experience in Windows and basic computer skills.

CODING, APP AND GAME DESIGN I Grade Level: 10-12 Credit: 1
This course is designed to develop student knowledge and skills in creating an original game idea for exploring an educational topic or social issue, and then developing a detailed game concept using paper prototyping and other planning techniques. Using Flash Text, drawing and animation techniques, students create an interactive demonstration of the game concept. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: Algebra 1 and students must have computer experience in Windows and basic computer skills. This course is a required course for completers in the Coding, AI and Game Design Concentration.

CODING, APP AND GAME DESIGN II Grade Level: 11-12 Credit: 1
This course is designed to develop student knowledge and skills in developing games using more advanced coding for moving and scoring. Students utilize problem-solving techniques and participate in hands-on activities
to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: Algebra 1 and students must have completed Game Design I with a "C" or better average. This course is a required course for completers in the Coding, AI and Game Design Concentration.

TECHNICAL COMPUTER APPLICATIONS I Grade Level: 9-12 Credit: 1
This course introduces the student to a variety of applications used for Workplace Productivity. Areas of study include email/calendar manager software, presentation software, word processing, and spreadsheets. Students will demonstrate knowledge and technical expertise in the efficient use of software and application integration. Students will explore a variety of career and certification opportunities. Students will utilize problem-solving techniques and participate in laboratory activities to develop an understanding of course concepts, and teachers should provide each student with real world learning opportunities and instruction related to occupations in information technology. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: None. This course is a required course to be a CTE completer in the program-Information Technology Concentration.

TECHNICAL COMPUTER APPLICATIONS II Grade Level:9-12 Credit: 1
This course introduces the student to a variety of applications used for Workplace Productivity. Areas of study include file management and individual applications including word processing, spreadsheet, database management, presentations, and personal information management. Students will demonstrate knowledge and technical expertise in the efficient use of software and application integration. Students will explore a variety of career and certification opportunities. Students will utilize problem-solving techniques and participate in laboratory activities to develop an understanding of course concepts, and teachers should provide each student with real world learning opportunities and instruction related to occupations in information technology. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: None. This course is a required course to be a CTE completer in the program-Information Management Concentration.

DRIVER EDUCATION

DRIVER EDUCATION (Fall Semester)
DRIVER EDUCATION (Spring Semester) Grade Level: 9-12 Credit: .5

Classroom instruction and in-the-car training in automobile and traffic safety are offered. Emphasis is placed upon the development of correct attitudes in safe and responsible driving. The course consists of classroom instruction (90 hours) and behind-the-wheel driving (6 hours). This program includes cognitive development relating to man-made traffic laws and ordinances, traffic signs, signals and road markings, natural laws, fuel conservation, safety belt use, alcohol and drugs, physical and emotional limitations and/or conditions. Interrelationships of human/vehicular/environmental aspects of traffic, accident prevention, and post-accident responsibilities will also be studied. Emphasis is given to developing one's ability to search for clues to hazards, identifying potential existing hazards, predicting outcomes based on personal or other highway user action(s), deciding on the best course of action, and executing the appropriate driving maneuver. In addition, topics regarding the perceptual and psychomotor skills required for basic vehicle control; lane changing, passing, following, entering and exiting from traffic; driving in cities/towns or rural and urban roads and freeways; responding to emergencies, various road and weather conditions, and other highway users are addressed.

Prerequisites and Other Notes: Priority will be given to students who are 16 years of age before the end of the semester in which the student is enrolled in the class. Students must not have mental or physical defect(s) that would prevent them from qualifying for an operator's license. Students may take Drivers Education at 14 years of age, however, they must turn 15 during the semester enrolled in the class.

Transfer Students: If a student transfers into our school and had Driver's Education at their previous school, they may enroll in the current semester of Driver's Education. Also, if a transfer student has their driver's license but did not have Driver's Education at their previous school, they may enroll in the current semester. If they did not have Driver's Education or do not have their driver's license, they must wait until the next semester to enroll in the program.

ENGLISH AND LANGUAGE ARTS

ENGLISH 9 HONORS Grade Level: 9 Credit: 1

This course will prepare students for the challenge of Advanced Placement English coursework. The focus will be on the close reading of literary and non-fiction texts, advanced academic writing techniques, and oral and multimedia presentations.

ENGLISH 9 Grade Level: 9 Credit: 1

This course will emphasize reading and writing skills for students planning to enter two- and four-year college programs or a skilled pathway. Students will effectively perform literary analysis and will be responsible for independent reading. Students will focus on academic writing such as essays, research papers, and oral and media presentations, and personal as well as e-correspondence.

ENGLISH 10 HONORS Grade Level: 10 Credit: 1

This course will continue to prepare students for the challenge of Advanced Placement English coursework. The focus will be on the close reading of literary and non-fiction texts with emphasis on recognition of figurative language, advanced vocabulary and independent reading. Students will focus on academic writing such as essays, research papers, college applications, and oral and media presentations.

Prerequisites and Other Notes: English 9 or English 9 Honors required (English 9 Honors recommended).

ENGLISH 10 Grade Level: 10 Credit: 1

This course will continue to emphasize reading and writing skills for students planning to enter two- and four-year college programs or a skilled pathway. Students will continue to effectively perform literary analysis and will be responsible for independent reading. Students will focus on academic writing such as essays, research papers, college applications, oral and media presentations, and personal as well as e-correspondence.

Prerequisites and Other Notes: English 9.

ENGLISH 11 Grade Level: 11 Credit: 1

This course will concentrate on reading and writing skills for students planning to enter two- and four-year college programs or a skilled pathway. Students will continue to effectively perform literary analysis and will be responsible for independent reading. Students will focus on academic writing such as essays, research papers, college applications, and oral and media presentations, and personal as well as e-correspondence.

Prerequisites and Other Notes: English 9 and 10.

TRANSITION ENGLISH LANGUAGE ARTS FOR SENIORS Grade Level: 12 Credit: 1

This course is designed for seniors who have not met the standard on school-approved benchmarking tests, such as the SAT or Star test, which help to determine college and career-readiness. Benchmarks would be measured as the bottom quartile for standard scores or the 2+ grade levels below on the Star test..

Prerequisites and Other Notes: English 9, 10, and 11 are required.

ENGLISH 12 Grade Level: 12 Credit: 1

This course will concentrate on reading and writing skills for students planning to enter two- and four-year college programs. Students will continue to effectively perform literary analysis and will be responsible for independent reading. Students will focus on academic writing such as essays, research papers, college applications, and oral and media presentations.

Prerequisites and Other Notes: English 9, 10, and 11 are required.

TECHNICAL ENGLISH LANGUAGE ARTS Grade Level: 11-12 Credit: .5

Students in this course will develop and strengthen writing skills in academic and technical writing for future career endeavors. The course will focus on writing in multiple modes and approaches for communication, including business and discipline-specific formats. This may include: researched and narrative essays; analytical summaries; structural descriptions; how-to or process explanations; operational descriptions; analyzing and preparing basic technical reports. Students will be trained in the ethical use of writing tools in both the workplace and academic settings. Conventions of written English will reinforce basic grammar, mechanics, punctuation, and spelling.

AP ENGLISH LANGUAGE AND COMPOSITION (credit given for English 11 or 12) Grade Level: 11- 12 Credit: 1

This is a college-level course focused on the writer's art and aimed to prepare students for the Advanced Placement English Examination. The course emphasizes response to passages, primarily nonfiction, and in-depth analysis of the methods used by writers to achieve desired effects. Students will apply these techniques to their own writing. A research paper will be required as well as regular oral and written reports on outside readings. College credit is available at most colleges to students who score high enough on the spring exam.

Prerequisites and Other Notes: English 9 and English 10 Honors required with a"C" average, however, a "B" or better, is recommended..

AP ENGLISH LITERATURE AND COMPOSITION (credit given for English 12) Grade Level: 12 Credit: 1

This is a college-level course focused on reading and analyzing American and world literature. Students will read prose, both fiction and non-fiction, and poetry with the aim of understanding and writing analyses of the techniques the author used to create the effect of the piece. Students will write dialectical journals, will annotate pieces of literature, conduct an in-depth research paper and will complete timed writings on a frequent basis. Independent reading will be required as well as both oral and media presentations. College credit is available at most colleges to students who score high enough on the exam held in May.

Prerequisites and Other Notes: Students need to have a minimum of a "C" in the preceding English class before taking AP Literature; however, a "B" or better is recommended. . AP exam required.

JOURNALISM Grade Level: 10-12 Credit: 1

Journalism is the discipline of gathering, writing and reporting news, and broadly it includes the process of editing and presenting the news articles. Journalism applies to various media, but is not limited to newspapers, magazines, radio and television, and the internet.

Prerequisites and Other Notes: "B" average in English is recommended; "C" average required.

JOURNALISM VIDEO Grade Level: 10-12 Credit: 1

This course is a laboratory-based class that focuses on the methods and techniques for reporting, producing, and delivering news and news programs via television and video/film media; it prepares individuals to be professional broadcast journalists, editors, producers, directors, and managers. This course includes instruction in the principles of broadcast technology, broadcast reporting, on-and off-camera and microphone procedures and techniques, program, sound and video/film editing, program design and production, media law and policy and professional standards and ethics.

Prerequisites and Other Notes: "B" average in English classes recommended. "C" average required. This class is limited to 10 students due to limited studio space. Students should be prepared to be on camera at some point during the class.

NEWSPAPER I Grade Level: 10-12 Credit: 1

Newspaper I is an introductory class to writing and producing a school newspaper. In addition to the history of journalism in American society, the class examines freedom of speech, restrictions and responsibilities when working in the press. Areas of study will include how to write news, editorial, feature, sports, and entertainment stories. Students may learn to use design software to create pages and spreads in a newspaper. As studies progress, students will begin writing for the school newspaper.

Prerequisites and Other Notes: "B" average in English classes recommended; "C" average required. 9th grade college prep students are also eligible.

NEWSPAPER II, III Grade Level: 11-12 Credit: 1

This course is a laboratory type class which allows students to use the journalistic skills developed in Newspaper I to produce the school newspaper, *The Viking Press.* Students hold minor staff positions, such as heading a specific section. Grading is primarily based on how well given responsibilities are met, including section editors, designing pages, writing stories, and making required changes.

Prerequisites and Other Notes: Journalism or appropriate newspaper class and teacher recommendation required.

SCHOOL YEARBOOK Grade Level: 10-12 Credit: 1

This course is for students who have an interest in photography and/or yearbook production. Class topics include headlines, copy, layout, photography, and advertising. The goal is to produce a yearbook that meets the needs of the school while providing laboratory experience for the student.

Prerequisites and Other Notes: "B" average in English. Class size is limited to ten students. Students should not register for this course unless they are willing to sacrifice some personal time after school and are willing to attend functions after school or at night to complete assignments. Staff must be willing to sell ads to the community as well. Only seniors with prior yearbook experience.

ENGLISH LANGUAGE ARTS SKILLS REINFORCEMENT Grade Level: 9-12 Credit: .5 or 1

This course is designed to provide students with tools and knowledge needed to prepare for college and career-readiness skills.

CLASSICAL MYTHOLOGY Grade Level: 10-12 Credit: .5

Students must be able to read, view and discuss mythological material and subjects with maturity and respect. This class deals with ancient cultures whose values differ from our modern sensibilities. This is a course designed for students to explore ways to relate classical Greek and Roman stories to modern words, expressions, customs, traditions, superstitions and symbols. Limited stories from Viking and Celtic Mythology will also be studied. It will encourage students to examine how these ancient stories have impacted our modern imagination.

Prerequisites and Other Notes: "B" average in English classes recommended, "C" average required.

WORLD MYTHOLOGY Grade Level: 10-12 Credit: .5

Students must be able to read, view and discuss mythological material and subjects with maturity and respect. This class deals with ancient cultures whose values differ from our modern sensibilities. This is a course designed for students to investigate the universal nature of man by studying myths of many cultures, including African, Aboriginal Australian, European, Middle Eastern, Far Eastern, and Native North and South American stories. Topics investigated will include creation myths, heroes and tricksters, nature myths, and other topics. Students will be required to complete an independent research presentation in this course.

Prerequisites and Other Notes: "B" average in English classes recommended, "C" average required.

PUBLIC SPEAKING Grade Level: 10-12 Credit: .5

Public speaking courses enable students to develop communication skills for a variety of speaking situations (such as small and large group discussions, delivery of speeches in front of audiences, etc.). Course topics may include research, organization, verbal delivery, stylistic choices, visual and presentation skills, analysis, critique, and development of self-confidence.

Prerequisites and Other Notes: Reserved for 10th-12th grade students with a B or higher in previous English. Essential pre-debate skills covered in English.

ACADEMIC AND TECHNICAL WRITING Grade Level: 11-12 Credit: 1

Students in this course will be able to focus on strengthening their writing skills in preparation for future academic and career endeavors. The course will focus on writing in multiple modes, including business and discipline-specific formats, researched and narrative essays, and the conventions of written English. Students will be introduced to technological and other tools such as peer-editing and reviewing, writing groups, Writing Navigator, and other web-based resources for writers. This is NOT a creative writing class, but rather an opportunity for students to develop and refine their communication and academic writing skills.

READ 180 Grade Level: 9-12 Credit: 1

Read 180 is an intensive reading intervention designed to bring struggling readers to grade-level proficiency. A combination of small-group direct reading instruction, sustained independent practice, and individualized computer software allows students to focus on the acquisition and mastery of grade-appropriate reading and study skills. Students are placed in Read 180 based on teacher recommendation. Fulfills one English Credit.

FAMILY AND CONSUMER SCIENCES

PARENTING AND CHILD DEVELOPMENT Grade Level: 10-12 Credit: 1

This course is designed to help students evaluate readiness for parenting while examining appropriate parenting and child development practices. Students will develop an awareness of societal issues affecting families and explore support systems. Students will use reasoning processes, problem solving techniques (both individually and collaboratively) and participate in the hands-on activities to take responsible action in families, workplaces, and communities. Students will have the opportunity to participate in the local student organization- FCCLA**.** The instructional program includes wearing the empathy belly and caring for a digital baby.

LIFE Grade Level: 9-10 Credit: 1

The LIFE (Learning for Independence, Family and Employment) students will develop skills to function successfully within their current family and peer group. By utilizing basic skills and high order thinking skills, the student will learn resource & management techniques (goal-setting, decision making), consumer education (budgeting, purchasing power) and skills in relationships (family, peer/teens, and dating including sex education). Students will have the opportunity to participate in the local student organization - FCCLA.

FOOD PREPARATION AND SERVICES Grade Level: 10-12 Credit: 1

Food Preparation emphasizes skill development in the selection, preparation, storing, and serving of food, management of resources to meet individual and family nutritional need and optimal use of food resources, the principles of nutrition, and the relationship of nutrition to health and well-being. Students will use reasoning process, individually and collaboratively, and utilize problem solving techniques to participate in product-based learning. Food Preparation is designed to introduce students to foods, nutrition, basic cooking skills, safety,

sanitation and the proper use of cooking equipment. Students will also have the opportunity to learn meal-planning, and gain knowledge of social skills, (table settings, manners, and dining in restaurants). Students will have the opportunity to participate in the local student organization- FCCLA.

EARLY LEARNING CHILD DEVELOPMENT Grade Level: 9-12 Credit: .5

This course is designed to focus on the various physical, cognitive, social, emotional, and moral development, environments and social institutions, family life, demographics, and culture influencing human growth and development. This course also provides information and activities for guiding behavior and meeting the needs of special age groups. This course includes organizational strategies and systems and the use of appropriate resources and assessments to advance learning in a variety of organizational structures. Observation in an approved school setting is part of this course. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real-world learning opportunities and instruction. Students are encouraged to become active members of the Educators Rising Career Technical Student Organization.

VIKING CAFE: WORK BASED INTEGRATION AND TRANSITION Grade Level: 12 Credit: 1

The Viking Cafe is a simulated workplace designed to give students an opportunity to integrate their learned cooking abilities with real life restaurant experience. Students will prepare food, prep ingredients, manage a restaurant budget, practice and understand food cost, assemble recipes, and create grocery lists. Students will work together to develop restaurant quality meals to fulfill staff orders.

Prerequisites and Other Notes: Successfully completed FOODS class with a C average. Students will apply for a position, complete a resume, and interview with the teacher for selection. Students will also be required to obtain a food handler's card.

FINE ARTS

ART I Grade Level: 9-12 Credit: 1

The Art 1 course is an introductory art class open to students in grades 9-12. Students will explore the 7 Basic Elements of Art and the 7 principles of Design. Each will be incorporated into a variety of projects. An emphasis will be placed on the development of shape and shading skills to improve basic drawing skills. A variety of media and techniques will be explored. A list of terms, techniques, and art history references will be compiled throughout the semester to be used as a study guide to prepare for the final exam. Students are expected to participate in an art process every day.

ART II Grade Level: 10-12 Credit: 1

The Art 2 course will continue to build upon skills learned in Art 1. The basic elements and principles learned in Art 1 will be combined with the 5 basic rules of composition. An emphasis will be placed on information relating to portraits and human anatomy. A variety of techniques and media will be explored. Strong drawing skills or a desire to practice in order to learn strong drawing skills are an asset to the successful completion of this program. Both 2-D and 3-D projects will be completed. A list of terms, processes, and art history related items will be compiled throughout the semester to prepare for the final exam. Students will be required to keep an ongoing sketchbook.

Prerequisites and Other Notes: Student must earn at least a “B” in the previous Art course to enroll.

ART III Grade Level: 11-12 Credit: 1

The Art 3 level is a more advanced art class designed to build upon previously learned skills. A strong desire to continue to improve upon drawing skills is a must. Painting processes will be emphasized as we continue to use the basic elements and principles in order to create a visually strong composition. Projects will include both 2-D and 3-D work. Students will be expected to participate in a variety of contests and art exhibits. A term and art history list will be compiled in preparation for the final exam. Choices of mediums will be encouraged at this level. Students will be required to keep an ongoing sketchbook.

Prerequisites and Other Notes: Student must earn at least a “B” in the previous Art course to enroll.

ART IV Grade Level: 12 Credit: 1

The Art 4 course is similar to the Art 3. Instead of group projects, the Art 4 student will receive a list of projects from which to choose every six weeks. Students will participate in a variety of contests and exhibitions. They will complete a research paper and submit it to turnitin.com in place of a final exam. Students will be responsible for having a solo exhibit of their work in the school. A monthly sketchbook will be required.

Prerequisites and Other Notes: Student must earn at least a “B” in the previous Art course to enroll.

GRAPHIC ARTS Grade Level: 9-12 Credit: .5

The course will focus on digital design software (Adobe Creative Suite), layout, graphic artist, multimedia designers, or photographers. Course involves hands-on projects, industry-standard tools and community collaboration.

CERAMICS/POTTERY I Grade Level: 9-12 Credit: .5

Ceramics/Pottery courses cover the same topics as Creative Art-Comprehensive courses, but focus on creating three-dimensional works out of clay and ceramic material. Particular attention is paid to the characteristics of the raw materials, the transformation under heat, and the various methods by which objects are created and finished.

DANCE I Grade Level: 9-12 Credit: .5

Dance 1 curriculum will focus on technical skills, major principles of choreography, higher level thinking skills necessary to employ dance as an effective means of communication as well as the use of dance in a healthy lifestyle.

DANCE II Grade Level: 10-12 Credit: .5

Dance II students will concentrate on comparing and contrasting dances of various cultures and historical periods, applying and demonstrating critical and creative thinking skills in dance as well as demonstrating leadership skills in modeling choreography. Emphasis will be placed on dance as a means of developing and maintaining a healthy lifestyle.

Prerequisites and Other Notes: Dance I

DANCE III Grade Level: 11-12 Credit: .5

Dance III will stress practice in performing technical and choreographic skills necessary for artful presentation. Emphasis will be placed on the relationship of dance to other disciplines and careers. Research of dance history and artists will be an integral part of this level of study.

Prerequisites and Other Notes: Dance II

DANCE IV Grade Level: 12 Credit: .5

Creating and performing dance is the major emphasis of dance study on the fourth level. The creative process will be studied and students will develop an awareness of dance and its place in the present and future culture.

Prerequisites and Other Notes: Dance III

INSTRUMENTAL MUSIC I, II, III, IV Grade Level: 9-12 Credit: 1

This course is designed to advance musical development and skills students have acquired in instrumental music in middle school. Instruction is divided into two general areas: marching band and concert band. At the beginning of the school year, emphasis is placed on the marching band program which includes numerous performances in parades, football games, and band competitions. Following the marching season, the area of concert band is addressed. While the mediums of marching and concert band vary, several general areas of musical development overlap. These include tone production, breath control, improved reading habits, style, interpretation, and general musicianship. By combining marching and concert band, students will be exposed to the range of music literature written for wind ensembles. This course is both curricular and extracurricular – band meets during regular class period ***with additional required rehearsals and performances after school hours.***

Prerequisites and Other Notes: Good working knowledge of music concepts and objectives taught in General Music K-8, and a desire to continue instrumental performance from Grades 5-8. Students are required to attend summer band camp prior to marching season.

INTRODUCTION TO BAND (Accelerated Pace) Grade Level: 9-11 Credit: 1

Students will learn the fundamentals of performing and reading music in an accelerated environment. After one year, students would transfer into the standard Band curriculum and participate as a full time RHS band member. Transitional ensemble for students who want to play a woodwind/brass instrument. Previous instrumental experience not required. This class would not participate in marching band—would only be available to those who missed the opportunity to join band. Some evening and/or weekend performances are required.

CHORUS I Grade Level: 9-12 Credit: 1

Designed to teach basic choral skills, including vocal production, sight-singing, and choral discipline. Emphasis placed on vocal development in preparation for continuing in concert or show choir. ***The course is both curricular and extracurricular due to a number of required after-school rehearsals with a minimum of four public performances per year. 9th grade members will be encouraged to audition and participate in statewide 7-9 Honor Choir.***

Prerequisites and Other Notes: Working knowledge of skills acquired in General Music K-8.

CHORUS II Grade Level: 9-12 Credit: 1

This course is designed to continue instruction in vocal skills acquired either at middle school level or in Chorus I. Many styles of vocal literature will be studied and performed, and the choir will perform some pieces without accompaniment. Emphasis will be placed on leadership and dedication. ***Some after-school rehearsals will be required as well as a minimum of six public performances per year***. ***Students will be encouraged to audition and participate in state-wide honor choir opportunities.***

Prerequisites and Other Notes: Students must exhibit a desire for further vocal knowledge.

CHORUS III Grade Level: 10-12 Credit: 1

This course will be a performing group studying and singing all styles of choral literature, as reflected in the West Virginia Content Standards and Objectives for choral music. Students receive basic music theory study and extensive vocal training. Emphasis is placed on the development of the qualities of leadership, responsibility, service, confidence, and self-respect. ***This***

advanced choir is expected to present approximately twenty performances per year in the community and at competitions; many after-school rehearsals are required. All members will also sing with Chorus II. Students will also be highly encouraged to audition and participate in state-wide and nation-wide honor choir opportunities.

CHORUS IV Grade Level: 12 Credit: 1

This course is for the most advanced choral students. Chorus IV will involve learning more advanced content standards including the highest caliber chorus music, i.e. all state chorus and chamber choir repertoire.

Prerequisites and Other Notes: Chorus III

SHOW CHOIR: "PHOENIX BLUE" Grade Level: 9-12 Credit: 1

Show Choir is an audition-based, performance-oriented ensemble designed for students committed to achieving higher level vocal music, choreography, and stage presence. The course emphasizes the development of advanced singing techniques, dance routines, and the integration of these elements into stage shows- requiring lifting/physical activity. Emphasis is placed on the development of the qualities of leadership, responsibility, service, confidence, and self-respect. The Show Choir is expected to present approximately twelve performances a year; many after-school rehearsals are required. Membership in the Show Choir requires significant dedication and commitment to a rigorous rehearsal and performance schedule.

Prerequisites and Other Notes: Audition required. **Class does involve lifting and/or physical activity.**

AP MUSIC THEORY Grade Level: 11-12 Credit: 1

AP Music Theory is designed for advanced music students only. It will teach students to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. It will develop aural, sight-singing, written, compositional and analytical skills through a series of listening, performance, written creative and analytical exercises.

JAZZ ENSEMBLE Grade Level: 9-12 Credit: .5

Auditioned group made up of: Saxophones (Alto, Tenor, and Baritone), Trombones, Trumpets, Rhythm Section (Drums, Piano, Bass Guitar, Guitar, Vibraphone, and a variety of auxiliary percussion instruments). Vocalist(s) may also be used once an ensemble is established. Students would learn/perform a wide array of music spanning the 20th & 21st centuries. Students would study the performance style of many famous American musicians while connecting prior knowledge of American history. This ensemble would become the primary musical ambassadors of RHS in venues where the marching band would be too large to utilize. Some evening and/or weekend performances are required.

INDIVIDUAL TECHNIQUE Grade Level: 10-12 Credit: .5

The student will work on building their personal vocal/instrumental ability and achievements, performing solos, duets and small ensemble pieces. Students will perform for classmates, other students and possibly in concerts. They are encouraged to participate in the WV Solo and Ensemble Auditions and collaborate with the teacher to develop their musical abilities. Recommended for students seeking individualized instruction to improve musical skills.

Prerequisites and Other Notes: Instrumental Music I

PERCUSSION ENSEMBLE Grade Level: 10-12 Credit: .5

A music ensemble course designed to develop and promote advanced skills in the drumming arts. Music would be selected from world music repertoire, standard concert/marching band literature, modern literature, and popular music. Future goals would be to pursue grants for training and to purchase Steel Drums as well as the purchase of equipment to form an African Drumming Ensemble. Course would be open to all current RHS percussionists as well as those students (non-band members) who have a vested interest in learning to drum, or play keyboard instruments—PIANO PLAYERS ARE ENCOURAGED. Non-current band members who join this class will be eligible to join the other ensembles at RHS once they have demonstrated proper understanding of techniques required for success. Some evening and/or weekend performances are required.

MUSIC HISTORY/APPRECIATION Grade Level: 9-12 Credit: .5

This is a foundational course designed to foster a comprehensive understanding and lifelong appreciation of music across various historical periods, genres, and cultures. This course aims to enhance critical listening skills and provide students with the contextual knowledge necessary to engage meaningfully with the art form. No prior musical performance experience or theoretical knowledge is required

MUSIC THEORY Grade Level: 9-12 Credit: 1

Music Theory is designed to serve as a prerequisite to AP Music Theory. It will teach students to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. It will introduce and develop aural, sight-singing, written compositional and analytical skills through a series of listening, performance, written creative and analytical exercises.

Prerequisite and Other Notes: Students wishing to enroll should have successfully completed a music elective with a final grade of an "A" or "B", or instructor permission.

THEATER I Grade Level: 9-12 Credit: 1

This course is designed to give those students who are interested in performance and theater skills a thorough overview of the theatrical arts. Requirements include both improv and rehearsed performances, scriptwriting, set design, and other projects. Topics include the history of theater, makeup, costuming, lighting and acting.

Prerequisites and Other Notes: A public performance of either a monologue or a small group scene is required at the Theater Showcase in the spring semester. Meets fine arts requirements for graduation

THEATER II Grade Level: 10-12 Credit: 1

This course will build upon the skills and information gained in Theater I and will require students to put that knowledge into use for class activities and school performances. Students will conduct an in-depth study of a play or playwright and complete projects based on that play. In class performances are required.

Prerequisites and Other Notes: Completion of Theater I with at least a B and demonstration of an interest to participate in theater. Students are enrolled in advanced theater courses through an audition process with the teacher prior to the beginning of scheduling each year.

THEATER III Grade Level: 11-12 Credit: 1

Students will collaborate to develop original dramatic pieces, create well defined characters, compare the aesthetic philosophies of several dramatic works, practice safe and efficient technical aspects of theater, assist
with auditions, casting, directing, and producing a play, and demonstrate artistic discipline in achieving ensemble rehearsals and performances.

Prerequisites and Other Notes: Completion of Theater II with at least a B and demonstration of an interest to participate in theater. Students are enrolled in advanced theater courses through an audition process with the teacher prior to the beginning of scheduling each year.

THEATER IV Grade Level: 12 Credit: 1

Students will write scripts using multiple media with subtext, character motivation, dramatic problems, complications, crises, climax, and resolution. Students will develop contrasting and consistent characters from classical, contemporary, realistic, and non-realistic dramatic texts in formal and informal theater or media. They will integrate designs using several art or media forms, analyze the relationships among cultural values, freedom of artistic expression, ethics, and artistic choices in works from various cultures and historical periods.

Prerequisites and Other Notes: Completion of Theater III with at least a B and demonstration of an interest to participate in theater. Students are enrolled in advanced theater courses through an audition process with the teacher prior to the beginning of scheduling each year.

FILM STUDIES I Grade Level: 9-12 Credit: .5

Film courses expose students to the materials, processes, and artistic techniques involving all aspects of film. Students may learn about the operation of a camera, lighting techniques, camera angles, depth of field, composition, storyboarding, sound capture, and editing techniques. Course topics may also include production values and various styles of filmmaking. In order to develop each student's style and artistic eye, major filmmakers, cinematographers, and their films may also be studied.

Prerequisites and Other Notes: Meets fine arts requirement for graduation.

FILM STUDIES II Grade Level: 9-12 Credit: .5

Students will practice and apply the skills introduced in Film I. Film II requires students to evaluate and use the materials, processes, and artistic techniques involving all aspects of film. Film II will provide students with the time and space to develop their own filmmaking abilities and emulate major filmmakers and cinematographers. Film II students will be expected to view and analyze major contributions to filmmaking. Students will have an opportunity to participate in the school's film festival and submit their work to various teacher approved short film contests.

Prerequisites and Other Notes: Film I. Meets fine arts requirement for graduation. Must have teacher approval.

INTRODUCTION TO THEATER Grade Level: 9-12 Credit: .5

This course will expose students to a range of theatrical genres (musicals, comedies/tragedies, mime, kabuki, etc.) as well as the history of theatre from Ancient Greece to modern musicals. Students will be required to read various scripts and respond to live and recorded performances. A small research project will complete the course. This course is recommended for students who do not want to perform or pursue other theater courses.

Prerequisites and Other Notes: Meets fine arts requirement for graduation.

CREATIVE WRITING I Grade Level: 9-12 Credit: 1

This course is designed to include imaginative writing. The students will acquire basic developmental skills with each type of writing. Subjects of the students' choice will be the basis of this course. Conferences with the teacher and exchange of constructive criticism with fellow students will also be a part of the course. Students will be expected to edit and revise pieces for the school's annual literary magazine.

Prerequisites and Other Notes: Meets fine arts requirement for graduation.

CREATIVE WRITING II Grade Level: 10-12 Credit: 1

This course is an upper level class restricted to those who have had Creative Writing I. The course will cover more advanced types of writing than Creative Writing I. Students will become more familiar with such aspects of writing as plot, theme, character, setting, mood, tone, and dialogue. The class is to go beyond the scope of Creative Writing I and encompass and improve upon pieces from the past in addition to crafting new ones. A writing project of significant length will be required. The upper level courses are responsible for gathering and editing pieces for the school's annual literary magazine.

Prerequisites and Other Notes: Must have at least a C in Creative Writing I and teacher approval.

CREATIVE WRITING III Grade Level: 11-12 Credit: 1

This course is for students who should enjoy writing short stories, scenes, plays, TV scripts and poetry since all are included in the course curriculum. Students will take an advanced look at the production and distribution of an authors' work and be in charge of producing the class literary magazine. Students who choose to take this course need to be sure that they can work well independently, be self-motivated and have good time management skills. The upper level courses are responsible for gathering and editing pieces for the school's annual literary magazine.

Prerequisites and Other Notes: Teacher approval required.

CREATIVE WRITING IV Grade Level: 12 Credit: 1

This course is for students who should enjoy writing and improving their work. Students will take an advanced look at the production and distribution of an authors' work and, along with Creative Writing III, will be in charge of producing the class literary magazine. Students who choose to take this course need to be sure that they can work well independently, be self-motivated and have good time management skills. The upper level courses are responsible for gathering and editing pieces for the school's annual literary magazine.

Prerequisites and Other Notes: Teacher approval required.

WORLD LANGUAGE

SPANISH I Grade Level: 9-12 Credit: 1

The initial course in a four-year sequence, this class is designed to enable the student to attain a basic proficiency in the four fundamental skills of foreign language acquisition: listening, speaking, reading, and writing. Presented within the context of the contemporary Hispanic world and its culture.

Prerequisites and Other Notes: Incoming 9th graders must have at least a B average in 8th grade English and must be enrolled in English CR or Advanced English at the high school level.

SPANISH II Grade Level: 9-12 Credit: 1

A continuation of Spanish 1 with emphasis remaining on the four skills of language acquisition. Students will further develop their knowledge and understanding of the Hispanic world and its culture.

Prerequisites and Other Notes: "C" or better average in Spanish 1 or teacher/administrator approval required.

SPANISH III Grade Level: 10-12 Credit: 1

Students apply acquired language skills through conversation, literature, and composition. Emphasis is placed on independent use of the language and advanced reading and writing skills. Cultural awareness and language proficiency will be strengthened.

Prerequisites and Other Notes: "C" or better average in Spanish 2 or teacher/administrator approval required.

SPANISH IV Grade Level: 11-12 Credit: 1

Enhancement of acquired language skills through more proficient conversation, advanced literature, refined composition, and heightened cultural awareness.

Prerequisites and Other Notes: "C" or better average in Spanish 3 or teacher/administrator approval required.

PHYSICAL AND HEALTH EDUCATION

PHYSICAL EDUCATION I Grade Level: 9 Credit: .5

Team sports, individual and dual sports, FitnessGram test, lifetime sports and an assortment of lead up games.

PHYSICAL EDUCATION II Grade Level: 9-10 Credit: .5

Team sports, individual and dual sports, lifetime sports and an assortment of lead up games.

WEIGHT TRAINING INTRODUCTION Grade Level: 9-12 Credit: 1

An introductory high intensity course that will offer challenging conditioning programs to optimize agility, power and speed.

WEIGHT TRAINING Grade: 9-12 Credit: 1

A high intensity course that will offer challenging conditioning programs to optimize agility, power and speed.

Prerequisites and Other Notes: Weight Training Introduction

WEIGHT TRAINING INTERMEDIATE Grade: 9-12 Credit: 1

A high intensity course that will offer challenging conditioning programs to optimize agility, power and speed.

Prerequisites and Other Notes: Weight Training Introduction and Weight Training.

WEIGHT TRAINING ADVANCED Grade: 9-12 Credit: 1

A high intensity course that will offer challenging conditioning programs to optimize agility, power and speed.

Prerequisites and Other Notes: Weight Training Introduction, Weight Training and Weight Training Intermediate.

RECREATIONAL SPORT Grade Level: 12 Credit: .5
Team sports, individual and dual sports, and lifetime sports.
Prerequisites and Other Notes: Physical Education I and II

HEALTH EDUCATION I Grade Level: 9-10 Credit: .5
This course is an introduction to the basic concepts of health education which enables individuals to make wise, healthy decisions.

HEALTH EDUCATION II – HEALTH EDUCATION Grade Level: 9-10 Credit: .5
This course provides students with information on Family and Social Health, Alcohol, Tobacco and other Drugs, Character Education and Bullying, and Respecting Authority. It provides students with information on Mental Health, Personal Care, Body Systems, Growth and Development, Nutrition, Communicable and Non-Communicable diseases.

FOUNDATIONS OF SPORTS MEDICINE Grade Level 11-12 Credit:.5
This course is designed to provide the student with knowledge on health care laws and ethics, medical terminology, basic anatomy, injury recognition, and infection control related to Sports Medicine. It is also designed to allow instructional content to focus on Sports Medicine related professions and teamwork. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

ADVANCED PRINCIPLES OF SPORTS MEDICINE Grade Level 11-12 Credit:.5
This course is designed to provide the student with knowledge on sports trauma and injuries. The instructional content will focus on the psychological effects of sports injuries, emergency planning and injury evaluation and technical skills. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.
Prerequisites and Other Notes: Foundations of Sports Medicine

ATHLETIC INJURY RECOGNITION AND PREVENTION Grade Level: 12 Credit:.5
Instructional content of this course will focus on sports injury prevention and rehabilitation. This course is designed to allow students to focus on nutrition for athletes, therapeutic modalities, therapeutic exercise and intervention and reconditioning and pain management. Students will participate in a work-based clinical internship in the sports medicine industry. Due to health care industry standards, exemplary attendance is mandatory. Students utilize problem-solving techniques and participate in hand-on activities to develop an understanding of course concepts.
Prerequisites and Other Notes: Foundations of Sports Medicine and Advanced Principles of Sports Medicine.

PRACTICAL APPLICATIONS OF SPORTS MEDICINE Grade Level: 12 Credit:.5
Instructional content of this course will focus on management of sports injuries. This course is designed to allow students to apply sports medicine skills and demonstrate leadership in the clinical setting. Students will participate in a work-based clinical internship in the sports medicine industry. Due to health care standards, exemplary attendance is mandatory. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.
Prerequisites and Other Notes: Foundations of Sports Medicine, Advanced Principles of Sports Medicine and Athletic Injury Recognition and Prevention.

MATHEMATICS

FINANCIAL ALGEBRA/MATHEMATICS Grade Level: 11-12 Credit: 1
Students in this course will focus on financial applications designed to deepen and extend understanding of mathematics. Students in Financial Algebra/Mathematics will communicate effectively, using accurate mathematical language in a financial context. Students will interpret and analyze various functions, graphs and data in order to make responsible and wise financial decisions in the context of their personal lives regarding
banking services, automobile purchases and maintenance decisions, income tax and employee benefits, and business decisions.
Prerequisites and Other Notes: Successful completion of Algebra I and Geometry

AP CALCULUS AB Grade Level: 12 Credit: 1
Designed to meet the needs of advanced mathematics students, this class offers an opportunity to obtain college credit in calculus. Students are expected to have a thorough knowledge of college prep math – including algebra, axiomatic geometry, trigonometry, and analytic geometry. The course devotes a large portion of time to the study of elementary functions; however, over half of this course will be devoted to the study of differential and integral calculus in order to adequately prepare for the Calculus AB examination.
Prerequisites and Other Notes: Completion of: Algebra 1, Algebra 2, Geometry, and Trig/PreCalculus with a minimum grade "B" or higher OR Algebra 1, Geometry, Algebra 2, College Algebra (Math 120), and College Trigonometry (Math 102) with a minimum grade "B" or higher. AP exam required.

AP STATISTICS Grade Level: 10-12 Credit: 1
Instruction will apply concepts learned in Algebra I, II, and Geometry. Knowledge of these topics is critical to decision making and to the analysis of data. Concepts include predicting the likelihood of an event occurring, organizing and evaluating data, and identifying the significance of statements.
Prerequisites and Other Notes: Algebra I, II, and Geometry with "B" or higher. AP exam required.

APPLIED STATISTICS Grade Level: 10-12 Credit: 1

Applied Statistics provides authentic experience in statistics designed to strengthen students' application of the statistical method. Students will conduct statistical simulations to model everyday situations in an increasingly data-rich world. Students in this course will select appropriate graphical and numerical methods to explore data, design and implement a plan to collect and analyze data, design and implement a plan to collect and analyze data, and use probability to evaluate outcomes and make decisions. Students will build on their work with linear, quadratic, and exponential functions and extend their repertoire of functions to include polynomial, radical, and rational functions. Students will use multiple representations, technology, applications, and modeling in problem-solving contexts.

Prerequisites and Other Notes: Completion of Algebra 1, Geometry, and Algebra II.

INTRODUCTION TO MATHEMATICAL APPLICATIONS Grade Level: 9-12 Credit: 1

This course will solidify quantitative literacy by enhancing numeracy and problem-solving skills as students investigate and use fundamental concepts of algebra, geometry and statistical analysis to apply to authentic career projects and scenarios.

TRANSITION MATHEMATICS FOR SENIORS Grade Level: 12 Credit: 1

Transition Mathematics for Seniors prepares students for their entry-level credit bearing liberal studies mathematics course at the post-secondary level. Students will solidify their quantitative literacy by enhancing numeracy and problem solving skills as they investigate and use the fundamental concepts of algebra, geometry, and introductory trigonometry.

Prerequisites and Other Notes: Completion of 3 math credits.

ALGEBRA I Grade Level: 9-12 Credit: 1

This course provides students with the computational and thinking skills and knowledge necessary to progress to higher levels of mathematics. Throughout the course, operations with fractions and decimals are maintained. Students learn to solve linear and quadratic equations and inequalities showing the solution set graphically, to solve word problems algebraically, and to solve systems of linear equations. Skills in working with polynomials, finding products and factoring, and working with algebraic fractions and radicals are stressed.

ALGEBRA I HONORS Grade Level: 9-12 Credit: 1

This course is designed for students who plan to enter college. It provides students with the computational and thinking skills and knowledge necessary to progress to higher levels of mathematics. Throughout the course, operations with fractions and decimals are maintained. Students learn to solve linear and quadratic equations and inequalities showing the solution set graphically, to solve word problems algebraically, and to solve systems of linear equations. Skills in working with polynomials, finding products and factoring, and working with algebraic fractions and radicals are stressed.

Prerequisites and Other Notes: To be determined by certified teacher, 2nd Benchmark iReady data indicates the student is "Late 8" or higher, math placement test, 8th grade math, "Above Mastery" on GSA, GPA 3.0 from middle school.

GEOMETRY Grade Level: 9-12 Credit: 1

This course is designed to help students gain understanding of plane and solid geometry through the application of deductive reasoning, figures, and proofs as they relate to the preparation of college courses. Topics include inductive and deductive reasoning, classifying angles, triangles and polygons; parallel lines and transversals; and proving congruent triangles, quadrilaterals (i.e., rectangles, squares, rhombuses, trapezoids), right triangles, and circles.

Prerequisites and Other Notes: Successful completion of Algebra I.

GEOMETRY HONORS Grade Level: 9-12 Credit: 1

This course is designed for the student who plans to enter college, this course will help students gain understanding of plane and solid geometry through the application of deductive reasoning, figures, and proofs as they relate to the preparation of college courses. Topics include inductive and deductive reasoning, classifying angles, triangles and polygons; parallel lines and transversals; and proving congruent triangles, quadrilaterals, right triangles, and circles.

Prerequisites and Other Notes: Successful completion of Algebra I with "B" or higher AND placement test.

ALGEBRA II Grade Level: 9-12 Credit: 1

Designed for the student who plans to enter college, this course is an extension of the concepts presented in Algebra I. Topics include radicals, binomial theorem, complex numbers, quadratic relations, polynomials, logarithms, and conic sections.

Prerequisites and Other Notes: Successful completion of Algebra I and Geometry.

ALGEBRA II HONORS Grade Level: 9-12 Credit: 1

Designed for the student who plans to enter college, this course is an extension of the concepts presented in Algebra I. Topics include radicals, binomial theorem, complex numbers, quadratic relations, polynomials, logarithms, and conic sections.

Prerequisites and Other Notes: Successful completion of Algebra, Geometry with "B" or higher AND placement test.

TRIGONOMETRY/PRE-CALCULUS Grade Level: 10-12 Credit: 1

Instruction will apply concepts learned to solve real life application problems in surveying, navigation, construction, and other fields. Other topics include laws of sines and cosines, graphs of trigonometric functions and trigonometric identities, polynomials, inequalities, functions, exponents and logarithms, sequence and series, and statistics and probability.

Prerequisites and Other Notes: Completion of Algebra I, Geometry, and Algebra II with "C" or higher.

QUANTITATIVE REASONING Grade: 11-12 Credit: .5

This course will focus on quadratic equations, radical expressions, complex numbers, systems of linear equations, graphs of functions, exponentials and logarithmic functions.

ALGEBRA III Grade: 11-12 Credit: .5

Equations and inequalities, functions, systems of equations and inequalities, graphing, rational expressions, radical expressions, and applications of the above.

APPLICATIONS OF TRIGONOMETRY Grade: 11-12 Credit: .5

This course will focus on trigonometry functions and graphs, identities and equations, solving triangles, vectors, polar coordinates , De Moivre's Theorem.

AP PRECALCULUS Grade Level: 11-12 Credit: 1

AP Precalculus prepares students for AP Calculus and other college-level mathematics and science courses. AP Precalculus will focus on Polynomial and Rational Functions, Exponential and Logarithmic Functions, Trigonometric and Polar Functions and Functions Involving Parameters, Vectors, and Matrices. Through these units, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. The course framework delineates content and skills common to college precalculus courses that are the foundation for careers in mathematics, physics, biology, health science, social science and data science.

Prerequisites and Other Notes: Completion of Algebra I, Geometry, Algebra II and Trigonometry with "C" or higher. Trigonometry can be taken concurrently with Precalculus.

NATURAL SCIENCES

EARTH AND SPACE SCIENCE Grade Level: 9 Credit: 1

This course is designed for general students or those entering a 4-year college. It is designed to focus on the relationship between humans and the environment and the changes the environment undergoes as a result of human impact. The course focuses on five ESS content topics: Space Systems, History of Earth, Earth's Systems, Weather and Climate, and Human Sustainability. Students in this class will engage in active inquiry, investigations, and hands-on labs activities. The course has an emphasis on using engineering and technology concepts to evaluate and critique current solutions and provide solutions to current challenges facing human society. Science literacy, including reading, writing, and research skills will be emphasized.

EARTH AND SPACE SCIENCE HONORS Grade Level: 9 Credit: 1

This course is designed for students entering STEM-related careers requiring a four-year degree. It will incorporate more manipulation of data and use of engineering concepts than the CR Earth and Space Science curriculum. It is designed to focus on the relationship between humans and the environment and the changes the environment undergoes as a result of human impact. The course focuses on five ESS content topics: Space Systems, History of Earth, Earth's Systems, Weather and Climate, and Human Sustainability. Students in this class will engage in active inquiry, investigations, and hands-on lab activities. The course has an emphasis on using engineering and technology concepts to evaluate and critique current solutions and provide solutions to current challenges facing human society. Science literacy, including reading, writing, and research skills will be emphasized.

BIOLOGY I Grade Level: 10-12 Credit: 1

The course will provide study in the chemical nature of life, cellular functions, matter and energy, inheritance and variation of traits, natural selection, ecology, and ecosystem topics normally found on college entrance exams (ACT). Students will engage in active inquiries, building models, simulations and laboratory activities. Students will use engineering design to evaluate and provide solutions to real world problems. Science literacy, including reading, writing, and research skills, will be emphasized.

Prerequisite: Earth and Space Science.

BIOLOGY I HONORS Grade Level: 10-12 Credit: 1

This course is designed for students who plan on attending a four-year college to prepare for a STEM-related career. The class will provide study in the chemical nature of life, cellular functions, matter and energy, inheritance and variation of traits, natural selection, ecology, and ecosystems. Students will engage in active inquiries, building models, simulations, and laboratory activities. Students will use engineering design to evaluate and provide solutions to real world problems. Science literacy, including reading, writing, and research skills, will be emphasized. This class is more involved in lab experiences, has an emphasis on analysis, and is intended for those who plan on taking Biology II and AP Biology.

Prerequisite: Earth and Space Science.

PRE-AP BIOLOGY Grade Level: 10-12 Credit: 1

Pre-AP Biology sparks student motivation and critical thinking about our living world as they engage in real-world data analysis and problem solving. Through the Areas of Focus, students engage deeply with science practices to construct and refine their biological knowledge and strengthen their cross-disciplinary reading, writing, and mathematical skills as they analyze data. Pre-AP Biology fosters student growth as they make meaningful connections among the structures, processes, and interactions that exist within and across living systems – from cells to ecological communities. Pre-AP Biology motivates students to be active participants in analyzing real-world phenomena and to collaborate productively with their peers in dialogue, investigations, and

problem solving. This class is designed to prepare students for AP Biology.
Prerequisites and Other Notes: Chemistry must be a prerequisite or co-requisite. Tenth grade must take Chemistry I Honors concurrently. This is a non-weighted course.

BIOLOGY II Grade Level: 10-12 Credit: 1
This course is designed for students who plan on entering fields such as nursing, pharmacy, biology research, physical therapy and medicine. The class provides the opportunity to deal with more advanced biological concepts and energy conversions, molecular genetics, biochemical pathways, biotechnology and regulation of gene expression, and evolutionary change. Laboratory activities will be more complex and require more analysis than in Biology I.
Prerequisites and Other Notes: Earth and Space Science, Biology 1 and Chemistry 1 or Physical Science 1 (may be corequisite).

AP BIOLOGY Grade Level: 11- 12 Credit: 1
This course follows the curriculum required by the Advanced Placement program with an emphasis on development of laboratory skills. Students take the national Advanced Placement Test upon completion of the class. A passing grade on the AP exam enables students to acquire up to 8 hours college credit. Areas of study include cellular biology, energy transformations, molecular and population genetics, living systems, and ecology. Requires two class periods with only one class period being weighted.
Prerequisites and Other Notes: Biology Honors or Pre-AP Biology, Chem I or Physical Science 1 and AP Exam required.

CHEMISTRY I HONORS Grade Level: 10-12 Credit: 1
This course is designed for those students pursuing Science, Technology, Engineering, Mathematics (STEM) education and careers. The curriculum covers stoichiometry, gas laws, atomic theory, electron configurations and molecular structure. The course includes laboratory investigations, problem-solving skills, developing models, and several engineering practices, such as design and evaluation. The course will also include analysis of science and
technical texts, and writing informative, argumentative and research paper.
Prerequisites and Other Notes: Earth and Space Science and Algebra 1 required. Recommended B or better in Algebra 1

CHEMISTRY II HONORS Grade Level: 11-12 Credit: 1
This course is designed to continue development of the concepts learned in Chemistry I as well as the introduction of solution chemistry, equilibrium, rate law and calorimetry, as well as more complex laboratory situations. This class is strongly suggested for all students who must take college chemistry. It is a prerequisite for AP Chemistry.
Prerequisites and Other Notes: Chemistry I, Algebra II (corequisite).

AP CHEMISTRY Grade Level: 12 Credit: 1
This course is recommended for students entering the field of medicine, pharmacy, chemistry and chemical engineering. It follows the national curriculum outline for Advanced Placement Chemistry and prepares students for the national AP Chemistry Test. Curriculum includes reaction prediction, emphasis on equilibrium and thermodynamics, electrochemistry and basic organic nomenclature. More extended laboratories are required. A passing grade on the AP exam enables students to acquire 8 hours college credit. Requires two class periods with only one class period being weighted.
Prerequisites and Other Notes: Chemistry II, PreCal (may be corequisite) or College Algebra. AP Exam required.

PHYSICS HONORS Grade Level: 11-12 Credit: 1
Physics is an advanced elective course designed for students pursuing Science Technology Engineering Mathematics (STEM) education and careers. There will be an emphasis on the mathematical approach to the topics of Forces & Interactions, Energy, and Waves & Electromagnetic Radiation and prepares the students for college physics. There will be a focus on several scientific practices which include developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, and constructing explanations. Students will engage in active inquiries, investigations, and hands-on activities as they develop and demonstrate conceptual understandings and research and laboratory skills.
Prerequisites and Other Notes: Earth and Space Science, Trig (can also be corequisite).

AP PHYSICS I Grade Level: 11-12 Credit: 1
AP Physics I is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills.
Prerequisites and Other Notes: Trig (corequisite), Physics I

HUMAN ANATOMY AND PHYSIOLOGY Grade Level: 11-12 Credit: 1
This course is designed for students planning to attend a 2-year program. Class work involves study of the structure and function of human body systems. Lab work includes microscopic study of tissues and dissections of the pig heart, cow eye, and sheep brain. Students will use engineering design principles to evaluate and provide solutions to real world problems. Science literacy, including reading, writing, and research skills will be required.
Prerequisites and Other Notes: Earth and Space Science and Biology I required.

HUMAN ANATOMY AND PHYSIOLOGY HONORS Grade Level: 11-12 Credit: 1

This course is designed for students planning to attend a 4-year college. It is especially useful for those going into the medical field. Class work involves study of the structure and function of human body systems. Lab work includes microscopic study of tissues and dissections of the pig heart, cow eye, and sheep brain. It involves more extensive lab experiences and an emphasis on analysis of information. Students will use engineering design principles to evaluate and provide solutions to real world problems. Science literacy, including reading, writing, and research skills will be required.

Prerequisites and Other Notes: Earth and Space Science and Biology I required.

PHYSICAL SCIENCE 1 Grade Level: 10-12 Credit: .5

This course is recommended for all students going to college and entering a career that is non-STEM related. It is designed to provide general information about the physical sciences that may be required to pass classes in a major that is not science-oriented. This semester will provide experience in reading and writing compounds, general chemical reactions, atomic structure, nuclear reactions, and the periodic table. This course does not meet Chemistry I prerequisite requirements.

Prerequisites and Other Notes:: Earth and Space Science

PHYSICAL SCIENCE 2 Grade Level: 10-12 Credit: .5

This course is recommended for all students going to college and entering a career that is non-STEM related. It is designed to provide general information about the physical sciences that may be required to pass classes in a major that is not science-oriented. This semester will provide experience in the laws of motion, scientific and engineering design, electrostatic and magnetic forces, energy changes, and electromagnetic radiation. This course does not meet Physics I prerequisite requirements.

Prerequisites and Other Notes:: Earth and Space Science

ENVIRONMENTAL SCIENCE Grade Level: 11-12 Credit: 1

This course is designed for those students who are planning to attend college but not majoring in Science. Academic stringency will be maintained in a manner consistent with the scholastic requirements of the non-science college major. This course is an inquiry/lab-based class that will explore the economic, social, political, and ecological aspects of today's environment. Students will analyze and evaluate the use of renewable and nonrenewable energy sources, investigate water sources and pollutants, and evaluate the leading cause of species decline and premature extinction. They will also classify and analyze characteristics of different soil types, best management practices of the agriculture business, and how communities have restored and protected ecosystems. A considerable amount of out-of-class time for scientific writing and research will be required.

Prerequisites and Other Notes: Earth and Space Science, Biology I.

AP ENVIRONMENTAL SCIENCE Grade Level: 11-12 Credit: 1

This course is designed to be the equivalent of an introductory college course in environmental science and follows the curriculum required by the Advanced Placement Program. Students take the national Advanced Placement test upon completion of the class. A passing grade on the AP exam enables students to receive 3-4 hours of college credit. Curriculum includes scientific analysis of ecosystems, atmospheric history and dynamics, human population dynamics, energy transfer and usage, land usage and the effects of pollution. Mathematical analysis skills are required.

Prerequisites and Other Notes: Earth and Space Science, Biology I, Chemistry I or 1st semester Physical Science. AP exam required.

ZOOLOGY Grade: 11-12 Credit: 1

Zoology is an advanced course in which students will recognize the key features of the major body plans that have evolved in animals and how those body plans have changed over time resulting in the diversity of animals that are evident today. In addition to classification and recognition, this course teaches students about the anatomical and physiological characteristics of animals. These characteristics relate to how an animal functions and can help students see the connections uniting particular animal groups. An understanding of form and function allows students to study how animals have evolved over time and relate animals to their particular role in an ecosystem. Finally, students will develop an understanding that all living things are interconnected. Students should realize that the worldwide activities of humans can contribute to animal diversity both positively and negatively. It should also be understood that humans are dependent on animal species for advances in medicine, ecosystem maintenance, and food supply.

Prerequisites and Other Notes: Biology

FORENSIC SCIENCE Grade Level: 10-12 Credit: 1

This course is designed for students who plan on attending a technical program or community college and for those planning to enter the work force directly out of high school. This course will provide students with hands-on experiences and problem-based learning tasks associated with criminal investigations. This course covers Engineering, Technology, and Application of Science standards as students apply the scientific method, utilize models, design and conduct investigations, and analyze data and make conclusions about crime scenes. Forensic Science will incorporate knowledge and skills from previous courses, such as Earth Science and Biology, to help students identify, process, and analyze evidence using various techniques. Laboratory skills and safety will be further developed in this course. Science literacy, including reading, writing, and research skills will also be emphasized.

Prerequisites and Other Notes: Earth & Space Science, Biology (may be concurrent)

SOCIAL STUDIES

UNITED STATES STUDIES Grade Level: 10 Credit: 1

United States Studies examines the evolution of the Constitution as a living document and the role of republican government in the development of a rapidly changing technological society. This study of the United States is an examination of the establishment of British North America, the founding of the American state, the growing sectional strife over the issue of slavery, the American Civil War period, and the country's transformation to a dominant political and economic influence in the world at the beginning of the twentieth century. This class will utilize available technology, various hands-on activities, and critical thinking skills so students can effectively employ their knowledge and skills to create unique products displaying their mastery of content.

UNITED STATES STUDIES HONORS Grade level: 10 Credit: 1

This is a rigorous, college-preparatory survey of American history from British North America through the early twentieth century. The course emphasizes the development of the Constitution, republican government, and the political, economic, and social forces that shaped the nation, including sectionalism, slavery, reform movements, industrialization, and the rise of the United States as a global power. Honors-level expectations include advanced primary-source analysis, thesis-driven writing, document-based questions, and research projects that develop critical thinking, historical argumentation, and skills necessary for AP-level and college history coursework.

WORLD STUDIES Grade Level: 9 Credit: 1

This study of the world emphasizes the historic, economic, geographic, political, and social structure of various cultural regions of the world from the dawn of civilization to the interdependent world of the twentieth century. Special attention is given to the formation and evolution of societies into complex political and economic systems while emphasizing geography/map and critical thinking skills. Major thematic units within this course include the civilization of Egypt, Rome, Greece, India, China, pre-Columbia America, Africa, development of religion, European feudalism, renaissance, enlightenment, and industrialization.

WORLD STUDIES HONORS Grade level: 9 Credit: 1

This is an accelerated, in-depth survey of global history from the earliest civilizations through the early twentieth century. The course emphasizes historical thinking skills such as source analysis, geographic reasoning, chronology, and comparative study cross regions and time periods. Students examine the development of political, economic, religious, and social systems through primary and secondary sources, thematic readings, and map-based investigations. Honors-level expectations include analytical writing, research-based projects, and structured discussions that prepare students for advanced high school social studies coursework and foster global historical understanding.

CONTEMPORARY STUDIES Grade Level: 11 Credit: 1

The focus of this course is the interaction of geographic, political, economic, and historical factors since 1914 in both an American and world context. Such factors provide students a framework to examine and appreciate the changing nature of societies and the increasing interdependency of the United States and the world. Students will contrast and evaluate past and present world concerns and hypothesize about problems and solutions for the future. Students will realize the importance of well-informed citizens in a diverse society and their place in the democratic process.

CIVICS Grade Level: 12 Credit: 1

Responsible participatory citizenship, an understanding of the workings of our government and sound financial literacy are essential to the preservation and improvement of American constitutional democracy. Students rely on knowledge attained and skills developed in their previous courses of United States and World Studies as a foundation for the Civics/Government course. In this course, students develop the knowledge, skills, and dispositions to engage in civic life, financial literacy, politics and government and analyze the personal, political and economic roles of responsible citizens in American democracy. Students explain and give examples of the traits of public character of informed, effective and responsible citizens and demonstrate through explanation and example how responsible citizens interact, monitor and influence public policy.

ECONOMICS Grade Level: 11-12 Credit: .5

This course is a basic survey course addressing major economic themes such as supply and demand, need vs. wants, macro v. microeconomic systems, and the history of economic policy. The development of economics as a study, the theory involved, and the evolution of modern consumerism will be pursued.

GEOGRAPHY Grade Level: 9-10 Credit: .5

The course will offer students an opportunity to pursue the study of basic physical and political geography and their effects on humankind. Basic map skills will be stressed and the class can be used as a preparatory course for college-level World Geography.

AP COMPARATIVE GOVERNMENT AND POLITICS Grade Level: 10-12 Credit: 1

AP Comparative Government and Politics introduces students to the rich diversity of political life outside the United States. The course uses a comparative approach to examine the political structures; policies; and the political, economics, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues.

Prerequisites and Other Notes: AP classes are equivalent to college level courses. Students are required to take the AP Exam.

AP U.S. GOVERNMENT AND POLITICS Grade Level: 12 Credit: 1

This analytical course covers the following major content areas: constitutional underpinnings of democracy, political beliefs and behaviors of individuals, political parties and interest groups, mechanisms that facilitate the communication of interest and preferences by like-minded citizens: the Congress, the Presidency, the bureaucracy, and the Federal courts; institutions and policy processes; civil liberties and civil rights.

Prerequisites and Other Notes: AP final exam required.

AP U. S. HISTORY Grade Level: 10-12 Credit: 1

The AP U. S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U. S. History. The program prepares students for intermediate and advanced college courses by demanding the equivalent workload 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. An AP U. S. History student should 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.

Prerequisites and Other Notes: Must take the AP exam at the end of the course.

AP PSYCHOLOGY Grade Level: 11-12 Credit: 1

The purpose of the Advanced Placement course in Psychology is to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology.

Prerequisites and Other Notes: Students must receive the teacher's permission to register for this course. An AP Exam is required.

AP WORLD HISTORY Grade Level: 9-12 Credit: 1

This course is designed to offer students the opportunity to take a college-level World History course in high school. This course provides students with the content and skills needed for successful passage of the AP exam. Students will understand how civilization has adapted throughout time through the influence of social and cultural aspects. The course will span from Foundations of Civilization to Civilization in the 20th Century.

Prerequisites and Other Notes: AP classes are equivalent to college level courses. Students taking the course are required to take the AP final exam. Elective credit will be earned by students who have already completed their World History credit.

HISTORY OF WORLD WAR II Grade Level: 9-12 Credit: .5

This course covers the major historical problems of the Second World War in Asia, Europe, Africa and North America. These include the events that led to the origin of the conflict, the rise of dictators, the strategies of the various nations, the principal military operations, the mobilization of nations and societies for total war, the successes and failures of both the Axis and Allied powers, the holocaust, the development and use of atomic weapons and the origins of the Cold War. The student should be able to identify the major events that occurred before, during and after the conflict, appraise the strengths and weaknesses of both sides, and assess the significance and consequences of the confrontation on the postwar world.

THE 1960'S Grade Level: 10-12 Credit: .5

This course aims to explore the 1960's politically, culturally and intellectually in context of the events and movements of the time. An era of the United States steeped in images of defiance, change and progress; students will examine the realities of the era through the use of primary documents in a variety of mediums including literature, film, music and historic documents. Divided thematically, students will begin by contextualizing the time period and examining the precursors to the various events that defined the 1960's. The course will then venture into the key aspects of the era including the Vietnam conflict (from both "hawk" and "dove" perspectives), the civil rights movement, the development of counterculture and other ancillary topics. Students will create and develop an original final project that examines one aspect of the 1960's through a variety of lenses. By the end of the course, students will comprehend the legacies of this turbulent yet formative era of American History while simultaneously asserting their own interpretation of the period.

THE AMERICAN CIVIL WAR Grade Level: 9-12 Credit: .5

This course will explore the policy and strategy of Sectionalism, the American Civil War and Reconstruction. We will examine the following themes: (1) the impact of slavery in Antebellum America; (2) the social and political events that caused the Civil War; (3) the election of 1860; (4) The causes and consequences of the war; (5) political, economic and strategic factors affecting both sides; (6) domestic and international politics of the North and South; (7) the military strategies of the Union and the Confederacy; (8) emancipation as a political-military strategy and the role of black soldiers; (9) analyze military campaigns throughout the war including movements, combats, deceptions, intelligence and logistics; (10) reconstruction policies of the North and their impact of the North; (11) impact of civil liberties on freed men in the South. This course will also spend time understanding the Civil War through modern films such as "Lincoln", "Gettysburg", and "Glory".

MILITARY BATTLES OF THE WORLD Grade Level: 9-12 Credit: .5

Since the dawn of time, wars and battles have had a significant impact on the course of history. From the earliest battles in ancient Mesopotamia to present day urban combat, conflicts have had the power to shape and change our world. Students will research and analyze the strategic, technological, cultural, and political influence of warfare on human history and the

development of civilizations due to war. This course will offer students an opportunity to examine battles, leaders, weapons, and strategies that helped create the world in which we live.

PSYCHOLOGY Grade Level: 11-12 Credit: .5

Students examine patterns and variations of human behavior and the process of individual human development. They identify and examine the emotional, intellectual and physical factors which influence the development of the individual human being. Students distinguish among the major schools of psychology and methods of investigation.

SOCIOLOGY Grade Level: 11-12 Credit: .5

Students are introduced to Sociology: the study of society. Students study the ways people behave in groups, develop hypotheses about people in groups and gather information to test these hypotheses. Attention will be given to current events, with emphasis on thinking critically about them. This is a pre-AP level course, designed to prepare students for one of the most common courses taken during the freshman year of college.

WEST VIRGINIA HISTORY Grade Level: 9-12 Credit: .5

This course is an in-depth study of West Virginia, from Pre-Columbian period to the present day. Special emphasis will be placed on geographical, cultural, economic, and historical factors, which led to West Virginia being admitted into the Union on June 20th, 1863. Major topics will include: WV Mine Wars, Hatfield's & McCoy's Feud, Civil War, Natural Disasters, Government, Famous Individuals.

SPECIAL EDUCATION

SPECIAL EDUCATION Grade Level: 9-12 Credit: Varies

Special Education is specially designed instruction to meet the unique needs of exceptional individuals. The student's current levels of functioning are assessed, thereby providing data for the Eligibility Committee in determining program eligibility and placement options. The Individual Education Program (IEP), which outlines annual goals, short-term learning objectives, and related services, is developed by the IEP Committee. This committee is comprised of teachers, parents, students (if appropriate), and administrators.

Programs Currently Available:

Exceptional Gifted, Learning Disabilities, Behavior Disorders, Mentally Impaired, Traumatic Brain Injury, Orthopedically Impaired, Communication Disorders, Hearing Impaired, Visually Impaired, and Other Health Impaired.

Prerequisites and Other Notes:

A battery of screening and specialized testing is required for determination of eligibility. Parental permission is required for assessment

LEARNING SKILLS Grade Level: 9 Credit: 1

Selected students will participate in small group and individual instruction in learning skills. The student will develop and demonstrate organizational, information gathering, note-taking, and test-taking skills, and other learning strategies and skills relevant to enhancing classroom performance. The student will also learn how to improve social skills and behavior achievement in structured and unstructured settings.

Prerequisites and Other Notes: See Counselor.

TECHNOLOGY EDUCATION

WORK-BASED INTEGRATION AND TRANSITION Grade Level: 11-12 Credit: 1

This course gives students the opportunity to integrate theory and practice. Under direct teacher supervision advanced students will complete school-based projects.

Prerequisites and Other Notes: Teacher permission required.

MILLWORK AND CABINETMAKING I Grade Level: 9-12 Credit: 1

This course introduces the student to the knowledge base and technical skills of the Millwork and Cabinetmaking industry. The students will complete modules in Basic Safety; Introduction to Construction Math: Introduction to Hand Tools; Introduction to Power Tools; Introduction to Construction Drawings; Basic Rigging; Basic Communication Skills; Basic Employability Skills; and Introduction to Materials Handling.

Prerequisites and Other Notes: Meets fine arts requirement for graduation.

MILLWORK AND CABINETMAKING II Grade Level: 10-12 Credit: 1

Millwork and Cabinetmaking II will continue to build student skill sets in areas such as Shop Tools used in Cabinetmaking; Joints; Assembling the Cabinet; and Sanding and Finishing. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

Prerequisites and Other Notes: Millwork and Cabinet making I

MILLWORK AND CABINETMAKING III Grade Level: 11-12 Credit: 1

Millwork and Cabinetmaking III will continue to build student skill sets in areas of Applying Plastic Laminate to a Countertop; Cabinet Doors; and Cabinet Drawers.

Prerequisites and Other Notes: Millwork and Cabinetmaking I and II and instructor approval.

MILLWORK AND CABINETMAKING IV Grade Level: 11-12 Credit: 1

Millwork and Cabinetmaking IV will continue to build student skill sets in areas of Cabinet Doors and Drawer Hardware; Cabinet Shelves and Shelf Hardware; and Mass Production Cabinetmaking.

Prerequisites and Other Notes: Millwork and Cabinetmaking I, II, III and instructor approval.

CONSTRUCTION SYSTEMS STEM Grade Level: 9-12 Credit: .5

This course provides opportunities for students to study and apply technological system concepts and processes as they relate to construction technology. Group and individual activities engage students in creating ideas, developing innovations, and implementing design solutions as they relate to the construction world. Students will utilize problem-solving techniques and manipulative skills while completing laboratory activities to develop an understanding of course concepts. Topics range from how construction meets the needs of society to basic construction techniques.

TRANSPORTATION SYSTEMS STEM Grade Level: 9-12 Credit: .5

This course provides opportunities for students to study and apply technological system concepts and processes as they relate to transportation technology. Group and individual activities engage students in creating ideas, developing innovations, and implementing design solutions as they relate to the transportation world. Students will utilize problem-solving techniques and manipulative skills while completing laboratory activities to develop an understanding of course concepts. Topics range from the transportation subsystems to the sources of energy used in the industry.

MISCELLANEOUS

ROBOTICS I Grade Level: 10-12 Credit: 1

Students will walk through the design and build a mobile robot to play a sport-like game. During this process they will learn key STEM principles, and robotics concepts. At the culmination of this class, they will compete head-to-head against their peers in the classroom, or on the world stage in the VEX Robotics Competition, the largest and fastest growing international robotics competition for middle and high school students. This modular and project-based curriculum teaches the design process in an engaging, hands-on manner to help teachers challenge, motivate, and inspire their students. By moving students through an actual engineering project, students quickly understand the relevance of what they are learning.

Prerequisites and Other Notes: Math teacher recommendation AND cumulative GPA 3.0+

ROBOTICS 2 Grade Level: 11- 12 Credit: 1

Students will continue to walk through the design and build a mobile robot to play a sport-like game. During this process they will learn key STEM principles, and robotics concepts. At the culmination of this class, they will continue to compete head-to-head against their peers in the classroom, or on the world stage in the VEX Robotics Competition, the largest and fastest growing international robotics competition for middle and high school students. This modular and project-based curriculum teaches the design process in an engaging, hands-on manner to help teachers challenge, motivate, and inspire their students. By moving students through an actual engineering project, students quickly understand the relevance of what they are learning. This class is an extension of robotics 1.

Prerequisites and Other Notes: Completion of Robotics 1 with “B” or higher. Teacher approval required.

ROBOTICS 3 Grade Level: 12 Credit: 1

Students will continue to walk through the design and build a mobile robot to play a sport-like game. During this process they will learn key STEM principles, and robotics concepts. At the culmination of this class, they will continue to compete head-to-head against their peers in the classroom, or on the world stage in the VEX Robotics Competition, the largest and fastest growing international robotics competition for middle and high school students. This modular and project-based curriculum teaches the design process in an engaging, hands-on manner to help teachers challenge, motivate, and inspire their students. By moving students through an actual engineering project, students quickly understand the relevance of what they are learning. This class is an extension of robotics 1 and 2.

Prerequisites and Other Notes: Completion of Robotics 1 and Robotics 2 with “B” or higher. Teacher approval required.

INTRODUCTION TO ENGINEERING DESIGN Grade Level: 10-12 Credit: 1

Introduction to Engineering Design is a component of the Project Lead the Way (PLTW) pre-engineering curriculum. This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

Prerequisites and Other Notes: Completion of Algebra 1 and Geometry with a "C" or higher. Geometry can be taken concurrently with Introduction to Engineering Design.

PRINCIPLES OF ENGINEERING (Elective Course) Grade Level: 10-12 Credit: 1

Principles of Engineering is a component of the Project Lead the Way (PLTW) pre-engineering curriculum. This course will help students understand the field of engineering and engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science, and technology in an

engineering problem-solving process to benefit people. The course also includes concerns about social and political consequences of technological change. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.
Prerequisites and Other Notes: Completion of Algebra 1, Geometry, and Algebra 2 with a "C" or higher. Algebra 2 can be taken concurrently with Principles of Engineering.

AP COMPUTER SCIENCE A Grade Level: 11-12 Credit: 1
The AP Computer Science A course is an introductory course in computer science. This course focuses on computing skills related to programming in Java. The new AP Computer Science Principles course complements AP Computer Science A by teaching the foundational concepts of computer science as it aims to broaden participation in the study of computer science. Students can take the courses in any order. Curricular Focus: problem solving and object-oriented programming, program implementation, program analysis, standard data structures, standard operations and algorithms, and computing in context. Programming Language: Java.

AP COMPUTER SCIENCE PRINCIPLES Grade Level: 9-12 Credit: 1
AP Computer Science Principles offers a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles also gives students the opportunity to use current technologies to create computational artifacts for both self-expression and problem solving. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science.
Prerequisites and Other Notes: Successful completion of Algebra 1.

WORK-BASED EXPERIENCE (SERVICE LEARNING) Grade Level: 12 Credit: 1
Service Learning is a course that uses direct experience and hands-on learning to encourage initiative, civic responsibility and the development of effective problem-solving skills within a work-based environment. Students engage in community service by volunteering in area schools during their designated class period. This experience provides opportunities for personal growth and character development while addressing needs which will have a significant positive impact on the community. Students selected for this program will exhibit leadership, ethical behavior and respect for others. Application for this opportunity must be made at the end of the junior year.
Prerequisites and Other Notes: Minimum 3.0 GPA required.

COMMUNITY SERVICE Grade Level: 12 Credit: 1
This is a service based course that requires a minimum of three (3) hours a week of volunteer work in public or nonprofit organizations that provide service to the community. In addition to volunteering, the course requires the development of learning goals, reflection on service experience and additional required documents.
Prerequisites and Other Notes: 12th grade students only. Proficiency rating on Math and ELA portion of the state summative assessment. Administrator approval required.

ACT/SAT Review Grade Level: 11-12 Credit: .5
The ACT/SAT review course will serve as an elective credit to help prepare students for the ACT and SAT tests.

FRESHMAN ACADEMY Grade Level: 9 Credit: 1
This course is designed to prepare freshman students for success in high school by equipping them with effective strategies for in-class and independent learning, increasing literacy proficiencies, and providing opportunities for students to practice important skills in various disciplines.
Prerequisites and Other Notes: Select freshman students based on GPA.

ADVANCED MANUFACTURING TECHNOLOGY Grade Level: 11-12 Credit: 4
The Advanced Manufacturing Technology Program is offered through WVU-P and will prepare graduates for careers in the manufacturing sector. This program is designed to train students to repair, troubleshoot and maintain a variety of manufacturing equipment including commercial, electrical and mechanical systems. The hands-on courses through WVU-P will give our students practical experience in automation, instrumentation and process control systems, as well as basic machining skills in order to facilitate working with modern equipment. Several of these classes are included in the dual credit section.

SENIOR EXPLORATION OPPORTUNITY Grade Level: 12 Credit: None
This is a nongraded, noncredit opportunity in which seniors can use one-four periods during the regular school day to pursue work experience, college classes, trade certifications or community service. One period devoted to study time may be used if the student has an academic schedule which requires extensive study time and if the student obtains a teacher willing to monitor the activity. Verification of the use of the time granted is required.
Prerequisite: Students must have a 2.0 GPA or administrative approval at the end of junior year, must have satisfactory discipline and attendance records, and must be fulfilling all the necessary requirements for graduation.

Senior options	Per.	GPA	Grades/Credits	Notes
Co-op				
Business	**3-4**	**2.0**	**Y**	**Previous business class recommended, but not required.**
Agriculture	**1-4**	**2..0**	**Y**	**Must be a completer in an Ag concentration.**
RJTC	**4**	**__**	**Y**	**RJTC approval required.**
Senior Exploration	**1-4**	**2.0 or Admin. Approval**	**N**	**Students taking 1 period of Senior Exploration must be assigned to a teacher.**
Service Learning	**1**	**3.0**	**Y**	**See below.**

Can a student take . . .

Co-op AND Senior Exploration (any number of periods)?	No
Co-op AND Service Learning?	No
Service Learning AND only one period of Senior Exploration?	Yes
Service Learning AND more than one period of Senior Exploration?	No

ARCHIVED COURSES

EQUINE SCIENCE: Archived 25-26
Level 3 Completer Course in Animal Systems Grade Level: 11-12 Credit: 1
This specialization course focuses on the basic scientific principles and processes related to equine physiology, breeding, nutrition, and management practices involved in the equine industry. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA.
Prerequisites and Other Notes: Intro to Ag, Food and Natural Resources, Animal Production Management. Continuation of SAE is required.

STATISTICS Archived 25-26 Grade Level: 10-12 Credit: .5
Statistics is one of the most important branches of the mathematical sciences. Knowledge of these topics is critical to decision making and to the analysis of data. Using concepts of statistics, students will make inferences and conclusions from data, organize and evaluate data, build logical arguments and identify the significance of statements. Connections between content and applications to the real world will be emphasized. Graphing utilities such as calculators and computers will be used to enhance student learning and to aid in the solution of practical problems. Students will be assessed multiple levels including analysis, technology application and integration, and real world application.
Prerequisites and Other Notes: Successful completion of Algebra I, Geometry, and Algebra II

PROBABILITY Archived 25-26 Grade Level: 10-12 Credit: .5
Probability is a significant stem of mathematics and one with imperative real world correlation. Using concepts of probability, students will predict the likelihood of an event occurring, organize and evaluate data, identify the significance of statements, and use probability in decision making and strategizing. Connections between content and applications to the real world will be emphasized. Graphing utilities such as calculators and computers will be used to enhance student learning and to aid in the solution of practical problems. Students will be assessed on multiple levels including analysis, technology application and integration, and real world application.
Prerequisites and Other Notes: Successful completion of Algebra I, Geometry, and Algebra II.

CHEMISTRY CONCEPTS Archived 25-26 Grade Level: 12 Credit: 1
This course is designed to continue development of the concepts learned in Chemistry I, Chemistry II as well as, the advancement of skills and concepts in solution chemistry, equilibrium, rate law and calorimetry, as well as, more complex laboratory situations. The rationale behind the course is to give students more exposure to in-depth chemistry concepts in preparation for chemistry classes at the collegiate level, who otherwise may not wish to take the weighted class of AP Chemistry.
Prerequisites and Other Notes: Chemistry I and Chemistry II

ACCOUNTING PRINCIPLES I Archived 25-26 Grade Level: 10-12 Credit: 1
This course is designed to develop student understanding and skills in such areas as the basic principles, concepts and practices of the accounting cycle. Journalizing, posting and analyzing of financial statements as well as banking and payroll procedures are included. The importance of ethics and confidentiality, as well as, an introduction to careers and types of business ownership are incorporated. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA.
Prerequisites and Other Notes: This course is a required course for completers in the Accounting and Finance Concentration and an elective course for completers in the Management and Administrative Support Concentration.

ACCOUNTING PRINCIPLES II Archived 25-26 Grade Level: 11-12 Credit: 1
This course is designed to develop student understanding and skills in such areas as advanced accounting procedures and techniques utilizing both manual and computer-based accounting. There is a strong emphasis on problem solving, analysis, and financial decision-making. Students study the advanced principles, concepts and practices of the accounting cycle and partnerships, corporations, cost accounting, inventory and tax accounting. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FLBA.
Prerequisites and Other Notes: Students must have completed Accounting I with a "C" or better average. This is a required course for completers in the Accounting and Finance Concentration and an elective course for completers in the Management and Administrative Support Concentration.

BUSINESS LAW AND ETHICS Archived 25-26 Grade Level: 11-12 Credit: 1
The skill sets in this course are representative of the basic knowledge included in a Career and Technical Education/Business and Marketing concentration. Incorporated into this course are elements of introductory business management and law knowledge and technical skills, systems, ethics and legal responsibilities, and problem solving, critical thinking and decision making skills necessary for a career in the business and marketing field. Teachers should provide each student with real world learning opportunities and instruction.
Prerequisites and Other Notes: None. This course is a required course to be a CTE completer in the program-Principles of Business.

INTRODUCTION TO FINANCE Archived 25-26 Grade Level: 11-12 Credit: 1

This course is designed to develop student understanding and skills essential to become a financially capable consumer. Emphasis is placed on Career Exploration of Finance Careers and skill development necessary for those careers. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FBLA. The West Virginia Standards for Global 21 Learning include the following components: Global 21 Content, Literacy and Numeracy, Entrepreneurship, and Technology Standards. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and content standards and objectives.

Prerequisites and Other Notes: This course is a required course for completers in the Accounting and Finance Concentration.

DIGITAL CITIZENSHIP Archived 25-26 Grade Level: 9 Credit: .5

In this fast paced world of technology, it is important to be computer literate. Computer Basics: Digital Literacy gives students a better understanding of computers and many fascinating components of the digital world. This course introduces learners to basic hardware, such as traditional desktops, tablets and mobile applications. We will take a look at different types of browsers, tools that can enhance productivity, data storage options and proper internet searching techniques. This course will provide students with a solid framework of knowledge to enhance digital literacy skills, as well as ways to stay current with changes in technology to use computer technology in an effective and appropriate manner.

FITNESS & CONDITIONING Archived 25-26 Grade Level: 9-12 Credit: .5-1

High intensity course that will offer challenging conditioning programs to optimize agility, power and speed.

CERAMICS/POTTERY II Archived 25-26 Grade Level: 9-12 Credit: .5

Students will be provided with the opportunity to develop in-depth knowledge and applied skills in the art of ceramic hand building and sculpture. They will explore many pottery, glazing, and sculptural techniques. Activities will be individualized according to the ability level of each student. Studio Art-Level II content standards and learning skills will be used.

Prerequisites and Other Notes: Students must earn at least a "B" in Ceramics/Pottery I to enroll.

TRIGONOMETRY Archived 25-26 Grade Level: 10-12 Credit: 1

Instruction will apply concepts learned to solve real life application problems in surveying, navigation, construction, and other fields. Other topics include laws of sines and cosines, graphs of trigonometric functions and trigonometric identities.

Prerequisites and Other Notes: Completion of Algebra I, II and Geometry with a minimum grade of "C" or higher.

ELECTRICAL TECHNICIAN Archived 25-26 Grade Level: 10-12 Credit: 4

The Electrical Technician Program is designed to train students in electrical code, electrical motors and the design and function of residential, commercial, and industrial electrical systems. **This program will introduce students to the National Electric Code and prepare them for the West Virginia State Apprentice license exam. Adults can apply for the Journeyman license exam upon program completion.** Electrical Technician is now certified through NCCER (National Center for Construction Education and Research).

Students must complete 1080 hour requirement, attain a verified school attendance record of no more than 6 days absent in a 1 year program or 12 days absent in a 2 year program, and be recommended to sit for the Journeyman Electrical Licenses exam.

AP CHEMISTRY LAB Archived 26-27 Grade Level: 12 Credit: 0

This course is designed for students who are planning on entering a career that requires lab skills. The curriculum includes mixing and diluting solutions using a volumetric flask, maintenance of lab glassware, neutralizing and disposing of chemical solutions, preparation of solutions from concentrated acid, care and cleaning of burettes and calibration of lab equipment, preparation of gels and maintenance of electrophoresis equipment, and preparation and handling of bacterial solutions. It also includes AP Chemistry Labs. It is required for all AP Chemistry students. Prerequisites and Other Notes: Chemistry II. This course is not weighted.

CHEMISTRY I Archived 26-27 Grade Level: 11-12 Credit: 1

This course is designed for college-bound students who need the basics of chemistry but do not need to pass a two-semester college class in chemistry. It will teach the basics of nomenclature, atomic structure, stoichiometry, and electron structure but with less emphasis on mathematics calculations. It will move at a slower pace than Honors Chemistry.

Prerequisites and Other Notes: Science 9, Biology and Algebra I.

GUITAR Archived 26-27 Grade Level: 10-12 Credit: .5

Guitar courses present fundamentals of music and guitar playing techniques, such as strumming and chords: the courses may include more advanced guitar playing techniques. Prerequisites and Other Notes: Students must be beginners on guitar or have special permission from the instructor. Class is limited to 15 students per semester.

HEAVY MACHINE OPERATIONS - PRE-APPRENTICESHIP PROGRAM Archived 26-27 Grade Level: 10-12 Credit: 4

The Electrical Technician Program is designed to train students in electrical code, electrical motors and the design and function of residential, commercial, and industrial electrical systems. **This program will introduce students to the National Electric Code and prepare them for the West Virginia State Apprentice license exam. Adults can apply for the Journeyman license exam**

upon program completion. Electrical Technician is now certified through NCCER (National Center for Construction Education and Research). Students must complete 1080 hour requirement, attain a verified school attendance record of no more than 6 days absent in a 1 year program or 12 days absent in a 2 year program, and be recommended to sit for the Journeyman Electrical Licenses exam.

INTRODUCTION TO SPORTS OFFICIATING Archived 26-27 Grade Level 10-12 Credit: 1

In this course students will learn rules, mechanics, and play calling signals for the selected sport(s) as outlined by the National Federation of State HIgh School Associations (NFHS) rule book which provides the general framework for competition in all 50 states and the District of Columbia. Students will experience a combination of in-class instruction and "game" experience on the court or field of play as a way of putting their understanding of course materials in action. Students will have the opportunity to take the state officiating licensure exam in the selected sport(s) at the end of the course

PHOTOGRAPHY Archived 26-27 Grade Level: 9-12 Credit: .5

Students will study the aspects of creating a photo using good composition. Photos will be studied based on the elements and principles of art. Students will study various methods of editing and manipulating photographs. Students will learn methods of assessing photography. They will keep a notebook showing their understanding of photography terms. Students will take two photos per week outside of class as part of their grade.

PIANO Archived 26-27 Grade Level: 9-12 Credit: .5

This course is intended for students interested in learning beginning piano skills. It is not intended for experienced piano players. Emphasis will be placed on student acquisition of basic knowledge of piano fundamentals so they will be able to play and/or accompany/harmonize melodies. Comprehensive musicianship blended with original music and carefully selected familiar tunes will be used to provide a unified structure. Students will also be exposed to music fundamentals, theory, technique, and sight-reading.

Prerequisites and Other Notes: Piano: Students must be beginners on piano or have special permission from the instructor. Class is limited to 12 students per semester.

PIANO II Archived 26-27 Grade Level: 10-12 Credit: .5

Piano II is a course for intermediate and advanced pianists looking to further their musicianship through study of music theory, scales, and advanced piano literature beyond what is offered in Piano I. Piano II will be an individually paced class where students will be expected to practice and work independently on materials chosen by the instructors. A blend of playing tests, written work, performances, and recital will be implemented in this course.

Prerequisites and Other Notes: Successful completion of Piano I with a B or better, or instructor permission. Any student who has studied privately and wishes to take Piano II without first completing Piano I will need to demonstrate their piano skills to the instructors to gain admission to the course. This class is limited to 12 students per semester.

As required by Federal Laws and Regulations, the Jackson County Board of Education does not discriminate on the basis of sex, race, color, religion, disability, or national origin in employment or in its educational programs and activities. Inquiries may be referred to James Frashier, Title IX Coordinator, Jackson County Board of Education, P. O. Box 770, Ripley, WV 25271 – Phone (304) 372-7300; or to Melissa Browning, Section 504 Coordinator, Jackson County Board of Education, P. O. Box 770, Ripley, WV 25271 – Phone (304) 372-7300. Inquiries may also be referred to the U. S. Department of Education, Director of the Office for Civil Rights.

West Virginia Department of Education

Ripley High School

Career Clusters

Agriculture, Food & Natural Resources

Architecture & Construction

Arts, A/V Technology & Communications

Business Management & Administration

Education & Training

Finance

Government & Public Administration

Health Science

Hospitality & Tourism

Human Services

Information Technology

Law, Public Safety, Corrections & Security

Manufacturing

Marketing

Science, Technology, Engineering & Mathematics

Transportation, Distribution & Logistics

The 16 Career Clusters were adopted to help students navigate their way to greater success in college and careers by helping them develop the skills, technical knowledge, academic rigor and real-world experience for high-skill, high-demand, highly-successful careers. Additional information is available at http://careertech.k12.wv.us.

Architecture, Food and Natural Resources Cluster					
Concentrations					
Agribusiness Systems AG0120	Animal Systems AG0220	Natural Resources Management AG0170	Plant Systems AG0210	Power, Structural and Technical Systems AG0110	Local
0101 Intro to Ag 0102 Science of Ag 0134 Ag Experience **Select One Below:** 0112 Fund of Ag Mech 0136 Adv Prin of Ag 0140 Animal Prod/Mgmt 0200 Nat Resource Mgmt 0212 Horticulture	0101 Intro to Ag 0140 Animal Prod/Mgmt 0134 Ag Experience **Select One Below:** 0149 Companion Animal 0230 Livestock Prod	0101 Intro to Ag 0134 Ag Experience 0190 Fish/ Wildlife Mgmt 0200 Natural Resources	0101 Intro to Ag 0134 Ag Experience 0212 Horticulture **Select One Below:** 0213 Floriculture 0214 Greenhouse Prod 0220 Fruit/ Vegetable 0240 Turf & Landscape Systems	0101 Intro to Ag 0112 Fund/Ag Mech 0134 Ag Exp **Select One Below:** 0113 Ag Structures 0114 Ag Equipment	AP Courses World Languages Addt'l Math Addt'l Science Cluster Electives

Architecture & Construction Cluster			
Concentrations			
HVAC Technician AR1600	Carpentry AR1820	Electrical Technician AR1760	Local
1752 HVAC 1 1753 HVAC 2 1754 HVAC 3 1755 HVAC 4	1842 Carpentry 1 1843 Carpentry 2 1844 Carpentry 3 1845 Carpentry 4	1756 Electrical Trades 1 1757 Electrical Trades 2 1758 Electrical Trades 3 1759 Electrical Trades 4	AP Courses World Languages Additional Math Additional Science Cluster Electives

Arts, A/V Technology & Communications Cluster		
Concentrations		
Performing Arts Local	Visual Arts Local	Local
Choir 1, 2, 3 or Show Choir Instrumental Music 1,2,3 or Theatre 1, 2, 3 Additional Fine Arts Elective	Art 1 Art 2 Art 3 Additional Fine Arts Elective	AP Courses World Languages Additional Math Additional Science Cluster Electives

Business Management & Administration Cluster		
Concentrations		
Business Enterprise BM1965	Career & Work Skills Training (CWST) BM0510	Local
1411 Business Computer Applications 1 **Select Three Below:** 1417 Business Law and Ethics 1422 Business Computer Communications 1439 Business and Marketing Essentials 1449 Office Procedures	0511 Career and Work Skills Training 1 0512 Career and Work Skills Training 2 0513 CWST Work Experience 1 0514 CWST Work Experience 2	AP Courses World Languages Additional Math Additional Science Cluster Electives

Education & Training Cluster			
Concentrations			
Early Childhood Classroom Assistant Teacher ED1320	Grow Your Own Local	Family and Consumer Science	Local
1321 Early Learning Child Development 1322 Early Learning Special Needs Inclusion 1323 Early Learning Language & Literacy 1324 Early Learning Numeracy	1306 Intro to Ed & The Classroom 1311 Educational Technology 1308 Intro to Educational Psychology 1310 Exceptionalities/Diversity	0929 Life 0903 Parenting 1411 Business Computer Applications Additional CTE Elective	AP Courses World Languages Additional Math Additional Science Cluster Electives

Finance Cluster	
Concentrations	
Accounting BM1410	Local
1401 Accounting Principles 1 **Select Three Below:** 1403 Accounting Principles 2 1470 Intro to Finance 1471 Business Finance 7039 AP Microeconomics	AP Courses World Languages Additional Math Additional Science Cluster Electives

Government & Public Administration Cluster
Concentration
Local
AP Courses World Languages Additional Math Additional Science Cluster Electives

Health Science Cluster		
Concentrations		
Therapeutic Services HE0723	Sports Medicine HE0800	Local
0711 Foundations of Health Science 0715 Advanced Prin of Health Science 0789 Clinical Specialty 1 0790 Clinical Specialty 2	0840 Foundations of Sports Medicine 0841 Advanced Principles of Sports Medicine 0842 Athletic Injury Recognition and Prevention 0843 Practical Applications of Sports Medicine	AP Courses World Languages Additional Math Additional Science Cluster Electives

Hospitality & Tourism Cluster	
Concentrations	
Pro-Start Restaurant Management HO1010	Local
1013 Restaurant and Culinary Foundations 1014 Restaurant Management Essentials 1019 Advanced Principles in Food Production 1020 Restaurant Professional	AP Courses World Languages Additional Math Additional Science Cluster Electives

Human Services Cluster	
Concentrations	
Pre-Cosmetology (Hair Stylist) HU2311	Local
1734 Cosmetology Prof I 1735 Cosmetology Prof II 1736 Cosmetology Prof Advanced 1737 Barbers & Cosmetology Foundations	AP Courses World Languages Additional Math Additional Science Cluster Electives

Information Technology Cluster			
Concentrations			
Information Management IT1450	Coding, AI & Game Design IT1470	Computer Systems Repair Tech IT1680	Local
1700 Technical Computer Applications 1 1709 Technical Computer Applications 2 **Select one from below:** 1429 Desktop Publishing 1431 Digital Imaging/Multimedia1 1705 Fund of Computer Science	1431 Digital Imaging/Multimedia 1 1432 Digital Imaging/Multimedia 2 1456 Coding, App & Game Design 1 1457 Coding, App & Game Design 2	1664 Comp TIA A+ Core 1 1665 Comp TIA A+ Core 2 1694 Networking+ 1696 Security	AP Courses World Languages Additional Math Additional Science Cluster Electives

Law, Public Safety, Corrections & Security Cluster	
Concentrations	
Law & Public Safety LA1020	Local
1225 Foundations of Public Safety Leadership 1226 Ethical Practices of Public Safety 1039 Practical Applications of Public Safety Leadership 1035 Seminar in Law Enforcement	AP Courses World Languages Additional Math Additional Science Cluster Electives

Manufacturing Cluster			
Concentrations			
Millwork & Cabinetmaking MA2120	Robotics MA1630	Welding MA1980	Local
2126 Millwork and Cabinetmaking I 2127 Millwork and Cabinetmaking II 2128 Millwork and Cabinetmaking III 2129 Millwork and Cabinetmaking IV	1866 Robotics 1 1867 Robotics 2 1868 Robotics 3 1869 Robotics 4	1862 Welding 1 1863 Welding 2 1864 Welding 3 1865 Welding 4	AP Courses World Languages Additional Math Additional Science Cluster Electives

Science, Technology, Engineering & Mathematics Cluster
Concentrations
Local
AP Courses World Languages Additional Math Additional ScienceFFF Cluster Electives

Transportation, Distribution & Logistics Cluster		
Concentrations		
Automotive Technology TR1620	Collision Repair Technology TR1670	Local
1631 Automotive Tech .MLR 1 1623 Automotive Tech .MLR 2 1625 Automotive Tech. MLR 3 1637 Automotive Tech. MLR 4	1671 Fundamentals of Collision Repair Technology 1675 Non-Structural Analysis and Damage Repair 1677 Structural Analysis and Damage Repair 1679 Surface Preparation and Refinishing	AP Courses World Languages Additional Math Additional Science Cluster Electives

WV Career & Technical Education (CTE) & Non-CTE Career Clusters and Concentrations @ Ripley High School

CLUSTERS	CONCENTRATIONS
Agriculture, Food and Natural Resources	Agribusiness Systems Animal Systems Natural Resources Management Plant Systems Power, Structural and Technical Systems Local
Architecture and Construction	Carpentry Electrical Technician HVAC Technician Local
Arts, A.V. Technology and Communication	Performing Arts Local Visual Arts Local Local
Business Management and Administration	Business Enterprise Career & Work Skills Training Local
Education and Training	Early Childhood Classroom Assistant Teacher Grow Your Own Local Family & Consumer Science Local
Finance	Accounting Local
Government and Public Administration	Local
Health Science	Therapeutic Services Sports Medicine Local
Hospitality and Tourism	Pro-Start Restaurant Management Local
Human Services	Pre-Cosmetology (Hair Stylist) Local
Information Technology	Information Management Coding, AI & Game Design Computer Systems Repair Technology Local
Law, Public Safety, Correction and Security	Law & Public Safety Local
Manufacturing	Millwork & Cabinet Making Welding Local
Science, Technology, Engineering and Mathematics	Local
Transportation, Distribution and Logistics	Auto Technology Collision Repair Technology Local

Students pursuing a four-year college preparatory program are encouraged to choose a CTE concentration. It is also recommended that those with a goal of a four-year college degree take two years of the same foreign language and a fourth lab science to meet possible college admission requirements.