RAVENSWOOD HIGH SCHOOL

PROGRAMS OF STUDY

2026-2027

Where Excellence is the Expectation

100 Plaza Drive
Ravenswood, WV 26164

304-273-9301

http://rhs.jack.k12.wv.us

RAVENSWOOD HIGH SCHOOL

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Ravenswood High School is dedicated to developing respectful, responsible, and productive global citizens.

JACKSON COUNTY BOARD OF EDUCATION

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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

SCHEDULING INFORMATION

Schedule Changes - The principal determines the number of sections of each subject to be taught and the number of teachers needed in each discipline based on students' course requests and teacher availability. In light of teacher cutbacks, classes will be full. Regretfully, the flexibility to make changes later is impaired. Therefore, choose courses and alternate courses carefully.

The **Master Schedul**e of course offerings is developed based on student needs and requests and the staff provided. Therefore, it is vital that students and families carefully study the course offerings and choose those that will best meet their needs.

Alternate Courses must be selected in case of scheduling conflicts. If too few students request a course, it may not be offered and an alternate course will be selected. If students do not select alternates prior to the scheduling process, they will be placed in alternates chosen by their counselor. Course changes may or may not be able to be made to a student's schedule.

Course Availability is dependent upon a preferred class size of at least 15 or more students in most courses (AP number is lower). Staff availability may necessitate that courses with fewer than 15 students not be offered.

Course Choices - Students should consult with their chosen postsecondary college or technical training institutions and NCAA and/or NAIA guidelines (if looking at participating in collegiate sports) when choosing course options and electives.

GENERAL INFORMATION

ADVANCED PLACEMENT (AP) CLASSES

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

Highly motivated students are encouraged to take AP courses while in high school. Students who register for these courses should expect an increased amount of work, both in-school and after-school hours, as well as increased complexity of assignments.

- AP courses are instructed at the collegiate level and students are expected to complete collegiate-level work.
- Students are encouraged to take Honors courses in preparation to succeed in AP courses.
- AP courses are verified and approved by College Board.
- The master schedule is based on the number of students requesting a course. For this reason, students will not be able to withdraw from AP classes after enrollment is completed.
- Students receive a weighted grade (i.e., If a student earns a "B" in the course, an "A" is factored into his/her GPA).
- If a student fails the first semester of an AP course, they will be removed from the course and placed in the regular course, if available.
- Students MUST take the assigned AP exam in May of the school year (the cost is covered by the Jackson County Board of Education). Weighting of the AP class (both semesters) will be removed if the AP exam is not completed.
- Passing scores allow students to receive college credit. For the most up-to-date information visit: http://apstudents.collegeboard.org

Virtual AP Classes - Please note these courses are collegiate-level and require self-motivation and time management skills from the student. Failure to complete semester timelines may result in an "F." If a student fails the first semester of an AP course, they will be removed from the course and placed in the regular course, if available.

Advanced Placement and Dual Credit courses will be the only weighted grades to determine class rank.
AP students must successfully complete the entire course and the AP exam to receive the weighted credit.

To be eligible to take an Advanced Placement course, a student must meet two of the following criteria:

1. Teacher recommendation by the student's current teacher in that subject area as well as their counselor.
2. Demonstrate prerequisite knowledge and skills to perform honors work, and
3. Demonstrate exceptional ability and interest through past performance.

CREDIT RECOVERY

If a student fails a core class, they may make up the credit by either being re-seated the following school year or by completing the course in summer school. Students may complete credit recovery during summer school for any failed core classes. Credit Recovery is offered through PLATO, a self-paced online program. If students do not make up missing credits through summer school, they will be re-enrolled in the class during the following school year to earn the credit.

In certain instances, Seniors may be permitted to complete Credit Recovery during the school day to meet graduation requirements. These circumstances are approved by administration on a case-by-case basis.

COLLEGE CLASS OPPORTUNITIES (NON-DUAL CREDIT)

Students have the opportunity to take non-dual credit college courses while enrolled in high school. Seniors may enroll in college classes during Senior Enrichment periods; however, these courses will not be calculated into the high school GPA or recorded on the Ravenswood High School transcript. Upon completion of coursework, students are responsible for requesting and paying for their official college transcript and ensuring it is sent to the institution they plan to attend after high school graduation. Juniors and Sophomores may take college courses independently outside the regular school day, and in rare cases, a talented and motivated freshman may seek approval. Many colleges and universities permit approved high school students to take no more than two college courses per term. Course offerings, costs, and admission requirements vary by institution, and information about early admission opportunities can be found on each college or university's website.

STUDENTS WITH DISABILITIES

Academic and vocational programs are accessible to all students, including those with disabilities or other challenges. Students with disabilities are enrolled in courses according to the guidelines outlined in their Individualized Education Plan (IEP) and are eligible to enroll in any class for which they meet the prerequisites. For assistance with scheduling or developing a plan of study, students should consult their special education case manager.

DUAL CREDIT

Students have numerous opportunities to earn both high school and college credit through dual credit courses. Classes offered through RHS are typically taught on campus by RHS staff and depend on student interest and staff availability. Additional dual credit courses are available through the Roane-Jackson Technical Center (RJTC). Students enrolled in dual credit courses receive weighted grades. Dual credit courses are recommended for highly motivated and disciplined students who meet both the college and high school requirements. These courses are offered at a discounted rate or, when possible, at no cost to the student.

Ravenswood High School Dual Credit Requirements

- Cumulative GPA of 2.5 or higher
- Teacher recommendation for the subject area
- Counselor recommendation

Colleges may have additional requirements to enroll in their coursework.

Three institutions are currently offering dual credit options for Ravenswood High School students:

- **Glenville State College** offers the Grow Your Own Program at the Roane Jackson Technical Center. This program is for students planning to major in Education. The GYO program provides FREE dual credit opportunities for high school students.

- **West Virginia State University** offers the majority of dual credit courses for Ravenswood High students. These dual credit college classes are taught at Ravenswood High School, and course offerings are based on student and staff availability.

- **West Virginia University- Parkersburg** offers Floriculture II at RHS on alternating years when student need is identified. Advanced Manufacturing is an additional program offered at the Ripley campus for high

school students. Additionally, WVU-P provides a variety of college credit possibilities for students enrolled in identified programs at the Roane-Jackson Technical Center (RJTC).

RHS Courses	1st Semester Dual Credit CollegeClass	2nd Semester Dual Credit College Class	College	Credits per Semester	Cost per Semester
Honors Biology	–	Biology 101	WV State	4	$100
CS/ Programming	Computer Science 101/Prog. Fundamentals		WV State	3	$75
English 11	English 101	English Literature 150	WV State	3	$75
English 12	English 102	Communications 100	WV State	3	$75
US Studies Comprehensive	History 207	History 208	WV State	3	$75
Quantitative Reasoning		Math 119E	WV State	3	$75
Trigonometry/ Precalculus	Math 120	Math 121	WV State	3	$75/$100
Music Appreciation/ History	–	Music 107	WV State	3	$75
Psychology	Psych 151		WV State	3	$75
Sociology 101	–	Soc 101	WV State	3	$75
Floriculture II	Agri 223	–	WVU-P	3	$150
Electrical Trades I	Elec 110	–	WVU-P	3	$150
Electrical Trades II	Elec 112	–	WVU-P	3	$150
Production & Design Concepts	–	Industrial Maintenance 126	WVU-P	3	$150
Transitional Math for Seniors	Math 103	–	WVU-P	3	$150
Technical English Language Arts	–	English 107	WVU-P	3	$150

*See course descriptions for course prerequisites. Costs of dual credit courses are set by the institution and subject to change. Courses offered through WV State may be paid for through Level Up. See your counselor for more information.

Refer to the Roane-Jackson Technical Center section at the back of this book for more specific information regarding dual credit offerings at RJTC on pages 70-116.

EARLY GRADUATION REQUIREMENTS

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

A. The student follows a planned educational program which leads to early graduation,
B. The student be accepted by a college or university; and
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 cumulative grade point average at the end of the third semester, and maintain a 3.75 grade point average through their fourth semester.
2. Must have received a letter of acceptance from an accredited college or university.
3. Must submit a written letter of intention to the RHS Counseling Office and principal by January 31 of their Sophomore year.
4. Along with parents/guardians, must have a formal interview with school officials to establish written agreement of the following regulations:
    A. The student will continue to be enrolled in the appropriate Junior homeroom and attend functions designated for Juniors. (**Exception**: The student will be permitted to participate in commencement ceremonies).
    B. The student will not re-enroll in high school during what would be their normal Senior year after having completed all requirements for graduation.

EMBEDDED CREDIT COURSES

Embedded credit courses incorporate skills and competencies from one course into another, allowing the student to get separate credit for both courses. Some courses at the Roane Jackson Technical Center that offer embedded credits are: Pre-Nursing Therapeutic Services (Transitional English 12 for Seniors) and Carpentry and Welding (Transition Math for Seniors). Additional information may be found in the RJTC portion of the Programs of Study.

Extracurricular/Interscholastic Physical Education Policy

The Extracurricular/Interscholastic Physical Education policy allows students to earn the required Physical Education credit by participating in extra-curricular/interscholastic activities. No additional coursework is required and no grade is transcribed.

- Two seasons of an approved activity, with a minimum of 60 contact hours, allow students to earn 1 PE credit to be placed on their transcript.
- At the conclusion of each season, the Band Director/Athletic Director will submit a roster of students who have successfully completed 2 seasons of an approved activity to the Counseling Department. Participation in Show Choir (Rave Revue) requires two years to earn the Physical Education credit.
- Approved activities: Archery, Baseball, Basketball, Cross Country, Cheerleading, Football, Golf, Marching Band, Show Choir, Soccer, Softball, Tennis, Track, Volleyball, and Wrestling

EXTRACURRICULAR ACTIVITIES

Students who wish to participate in extracurricular activities must have a "C" average (2.0) for the semester preceding the semester in which they wish to participate.

GENERAL SCHEDULING INFORMATION

All students will be scheduled for the full instructional day for all four years.

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 Program must have achieved at least two of the following three criteria:

1. Demonstrated exceptional ability and interest in the content area through past experiences
2. Obtained the prerequisite knowledge and skills to perform in these programs
3. Recommendation by the student's former or present teacher in that subject area and their counselor.

HONOR ROLL

To be considered for the Honor Roll, a student must be enrolled in a minimum of four credit classes. Students who obtain a "D" or "F" on their report card are not eligible for the Honor Roll.

Principal's Honor Roll - 4.00 & Above
High Honor Roll - 3.50 - 3.99
Honor Roll - 3.00 - 3.49

MASTERY TESTING FOR CREDIT

Jackson County Schools, in accordance with the 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/or for meeting graduation requirements per county policy. See your counselor for information.

NATIONAL HONOR SOCIETY

SELECTION PROCEDURE FOR MEMBERSHIP IN NHS:

Membership to the Ravenswood High School Chapter of the National Honor Society is open to qualified Sophomores, Juniors, and Seniors who demonstrate outstanding scholarship, leadership, character, and service. To be scholastically eligible for membership consideration, students must have a cumulative grade point average of 3.75 or higher. Candidates who are eligible scholastically will be given the opportunity to complete a Student Activity Information Form to give evidence of their character, leadership, and service. The Student Activity Information Form, along with other verifiable information about each candidate, will be evaluated by a five-member faculty council which will consider the candidate based on leadership, character, and service.

1. Leadership skills will be screened in terms of classroom leadership and school and community leadership, with emphasis on the holding of an office in a school or community group.
2. Character is measured in terms of integrity, behavior, ethics, and cooperation with both students and faculty. Attendance and discipline records will be screened.
3. Service will be screened in terms of involvement with community projects.

The selection of members shall be notified prior to the school's induction ceremony. A National Honor Society member who transfers from another school and brings a letter from the former principal or chapter advisor to the local advisor shall be accepted automatically as a member in the Ravenswood Chapter.

DISMISSAL OF MEMBERS OF THE RHS CHAPTER NHS

Members of the National Honor Society may be dismissed if they do not maintain the high standards of scholarship, leadership, character, and service that were used as the basis for their selection.

NCAA/NAIA

All students interested in participating in sports at the collegiate level must register with the NCAA Clearinghouse and/or NAIA at the end of the Junior year. Visit the NCAA Eligibility website and/or NAIA for detailed information and registration materials. A registration fee may be required. Check with your counselor to see if a fee waiver is available. Students must pay special attention when choosing classes. Please be advised that Algebra Support, Financial Algebra, Transition Math, Technical Transition Math, Transition ELA, and PLATO credit-recovery classes are not accepted by the NCAA. Some virtual classes may also not be accepted. It is the student's responsibility to check the NCAA website for a complete list of approved Ravenswood High School classes to determine course eligibility for NCAA. Please consult the NAIA website for details on NAIA eligibility guidelines.

OPTION PATHWAY

Option Pathway (Option 1) is designed for high school students who have fallen behind their cohort and can not meet graduation requirements on time in the regular classroom setting. A student must score a state minimum on the TABE (Test of Adult Basic Education) in reading and mathematics to be considered for the program. A second semester Junior or a Senior may be considered if they are already enrolled in and passing a CTE pathway. Students will study for the current West Virginia approved high school equivalency exam in the Options classroom at RJTC. Students will earn their high school diploma if they pass all portions of the high school equivalency exam and successfully complete their state-approved CTE program. Acceptance to the program is made by the Options team. Students enrolled in this program attend classes at Roane-Jackson Technical Center for the full school day.

PROMISE SCHOLARSHIP

To be eligible for the Promise Scholarship, a student must have the following:

1) A 3.0 cumulative GPA on a 4.0 scale in both core courses and overall coursework
2) ACT composite score of 21 and a minimum of 19 on all 4 subtests: Reading, English, Math and Science

OR

SAT composite score of 1080 and with a minimum of 510 on the Evidenced Based Reading and Writing and a 510 in Math

For the most up to date requirements and a complete listing of core courses used to determine Promise Scholarship eligibility, visit www.collegeforwv.com and click the Financial Aid tab.

Note: Those applying for the 2027-2028 Promise, may use a superscore to achieve the minimum standardized testing scores. Superscoring allows students to take their top score from sub sections of various ACT exams dates or SAT exams dates and combine them for a higher overall score. Superscores will automatically be calculated based upon the individual test scores received by the Promise office. **Promise eligibility is subject to change based on the WVHEPC and legislative rule.**

PROMOTION

In high school, promotion is determined by credits earned. Failure in 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:

Units Needed for Promotion/Graduation

Sophomore	Junior	Senior	Graduation
6 credits	12 credits	19 credits	26 credits

SENIOR ENRICHMENT

Seniors may be granted an enrichment opportunity during the regular school day up to a four consecutive period block in either the morning or the afternoon. This time can be used to pursue work experience, college classes, trade certifications, or significant community service endeavors. One period may be devoted to study time if the student has two or more AP or dual credit classes which require extensive study time but only if the student obtains permission from a teacher willing to monitor the activity. Students are required to remain on campus unless an enrichment opportunity is off campus and approved by administration.

To be eligible for Senior Enrichment, seniors must meet the following criteria:

- 2.5 cumulative GPA
- satisfactory discipline and attendance records approved by administration
- on track for graduation per school counselor

This is an ungraded/uncredited experience.

Approved activities include:

· **Work Experience**-Students approved for work experiences must work at least 15 hours during school day hours of 7:30-3:30 per week. Pay stubs must be presented to the Senior Enrichment Supervisor two times per month. Supervisor evaluations will be required monthly by the Senior Enrichment Supervisor.

· **Non-Dual Credit Online College or In-person Apprenticeship Classes**-May be taken through several postsecondary institutions for a reduced rate. One period of Senior Enrichment may be taken per college course each semester. College course participation must be provided to the Senior Enrichment Supervisor.

· **Community Service Projects**-Must include a signed contract between supervisor and the student. Assisting a teacher at RHS can only be done through Co-op or Community Service periods.

GRADUATION HONORS CUM LAUDE SYSTEM

The Cum Laude system will be used to recognize high academic achieving students at Graduation. The Graduation Honors system is based on a weighted grade point average. The cumulative grade point average (GPA) for the Graduation Honors Cum Laude System is based on the credits earned at the end of the final semester of the student's Senior year.

Cum Laude: 3.75 - 3.99
Magna Cum Laude: 4.00 - 4.19
Summa Cum Laude: 4.20 or higher

VIRTUAL SCHOOL

The WV Department of Education offers online courses through the West Virginia Virtual School (WVVS). To succeed, a student needs to be self-motivated, attend school regularly, manage time effectively, and set aside dedicated time to complete coursework. Most virtual school classes have an increased level of rigor. Also, failure to complete the assignments within the timeline set by the virtual instructor may result in an "F" and removal from the class at the semester. Families and students need to consider these factors when registering for virtual school classes. If you are working towards NCAA/NAIA eligibility, be cautious because not all virtual school classes have been approved by the NCAA/NAIA. See your counselor for more information.

VIRTUAL COURSES: To take a virtual course at Ravenswood High, please contact the RHS librarian who is the virtual school coordinator and visit WV Virtual School for a course catalog. The school counselor and virtual school coordinator must approve the courses prior to enrollment. Please pay attention to enrollment deadlines.

FULL TIME VIRTUAL: To enroll in full-time virtual school, please visit the Jackson County Board of Education website; Jackson County Board of Education and contact Sharon Carroll at the Jackson County Board Office for further information.

WEIGHTED CLASSES

Advanced Placement and Dual Credit classes are the only courses weighted to determine class rank. AP students must successfully complete the entire course and the AP exam to receive the weighted credit. Dual Credit courses require a student to pass the class to receive the weighted grade.

WV INVESTS

WV Invests is a "last-dollar-in" financial aid program designed to cover the cost of basic tuition and fees and approved academic program fees for certificate or associate degree programs in specific high-demand fields, as determined by the WV Department of Commerce, at a participating WV public two-or four-year institution. With three-fourths of the jobs in the current economy requiring postsecondary education or training, WV Invests is designed to help more West Virginians earn the credentials needed to land a rewarding career in WV. Students receiving the grant must agree to work in WV for a specified period of time following college graduation. Visit WV Invests for more information including the online application.

DISCLAIMER

Information in the Programs of Study is as accurate as possible at the time of printing. Changes to WVDE policies, WV Code, and/or the Jackson County Board of Education policies may require revisions to the Programs of Study at any time. Questions regarding the Programs of Study can be directed to school administration and the Counseling Department.

RHS GRADUATION REQUIREMENTS - 26 CREDITS REQUIRED

Courses needed for graduation require mastery of approved content standards. The completion of coursework will prepare all students for education, employment, and/or enlistment. Students should consult with their chosen post-secondary educational/training institution and scholarship program requirements when choosing course options and electives. The required courses outlined below build strong content knowledge and extend disciplines by engaging students in work of quality and substance. In grades 9 and 10, students build foundational knowledge and skills. In grades 11 and 12, students enter into the personalized aspect of their PEP, focusing carefully on selected coursework that leads to successful completion of their personal and academic goals. Each student's coursework will be designed to lead directly to placement in entry-level, credit-bearing academic college courses, completion of an industry recognized certificate or license, a workforce training program, or job placement. Students who do not demonstrate mastery of the approved content standards shall be provided extra assistance and time through personalized learning and support.

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 course may be substituted for an equivalent ELA credit.	**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.	**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 Advanced Mathematical Modeling Calculus Statistics AP Statistics AP Calculus-AB & BC Mathematics college courses Computer Science & Mathematics Financial Algebra/Mathematics Data Science Quantitative Reasoning County-created and Approved Math Courses higher than Algebra II
Science **3 credits**	**2 Prescribed Credits** Earth and Space Science Biology **1 Additional Personalized Credit from Course Options** An AP or Dual Credit Science course may be substituted for an equivalent science credit.	**Course Options and Courses Required to be Offered** Chemistry Human Anatomy and Physiology Physics Physical Science **Additional Course Options** Environmental Science Forensics Science college courses County-created & Approved Science Courses

		CTE Courses: Natural Resources Management Therapeutic Services I, II & III (RJTC)
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 or AP Government and Politics **1 Additional Personalized Credit from Course Options** *Students who take US Studies must utilize Contemporary Studies as their Personalized Credit.	**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)	
Physical Education (PE) **1 credit**	**1 Prescribed Credit** PE or Extracurricular/Interscholastic Physical Education (non-graded)	
Health **1 credit**	**1 Prescribed Credit** Health	
The Arts **1 credit**	**1 Personalized Credit** An AP or Dual Credit Arts course may be substituted for any Arts credit.	**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) (RJTC) Floriculture (0213) Digital Photography (1515) Millwork & Cabinetmaking (2126)
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, IB, dual credit, and/or Advanced Career (AC) course with a 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.

Additional Course Considerations for Students

- Counties may allow students with disabilities to earn 4 credits in Community Readiness Training recommended through an IEP Team as a personalized, Non CTE program of study.
- When choosing electives, students should consult with their chosen post-secondary educational institution and review scholarship program requirements to make sure electives are appropriate and accurate.
- Many four-year colleges and universities recommend the completion of at least two credits of the same world language before or during post-secondary programming. Students need to consult with their postsecondary institutions concerning world language requirements.
- Students are encouraged to complete an additional CTE Program of Study, Internships, or Extended Learning Opportunities.

COURSE DESCRIPTIONS



DUAL CREDIT COURSES

WEST VIRGINIA STATE UNIVERSITY COURSES

BIOLOGY 101 PRINCIPLES OF BIOLOGY

Grade Level: 10-12 Credits: 1 in Honors Biology; 4 hours college credit

This course is intended for non-science majors who are fulfilling a requirement for a General Education elective in the Natural Sciences. In both lecture and laboratory components, the course is designed to familiarize you with fundamental themes of Biology and to recognize and use biological principles in your personal life, as well as in your life as a citizen. Class sessions include lecture-based explanations of biological concepts, as well as open discussions of current events and pertinent issues in Biology. Laboratory sessions will include both "wet lab" work and investigations using models and games. Grading is based on various styles of tests, written assignments, and "Independent Work" of your own individual choosing.

Prerequisites and Other Notes: Recommendation by former science teacher for honors level work. Weighted grade in second semester.

COMPUTER SCIENCE 101/PROGRAMMING FUNDAMENTALS

Grade Level: 10-12 Credits: 1 in CS/Programming; 3 hours college credit

This course introduces the fundamental concepts of procedural programming using the C programming language. Topics include data types, control structures, functions, arrays, files and the mechanics of compiling, running, testing, and debugging programs. It offers an introduction to the historical and social context of computing and an overview of Computer Science as a discipline.

Prerequisites and Other Notes: Algebra I, Geometry and Algebra II. It is recommended to have a Math ACT score of 21+ or a 500+ Math score on the SAT.

ENGLISH 101 ENGLISH COMPOSITION I

Grade Level: 11(*12) Credits: .5 in English 11; 3 hours college credit

This is a college-level course that emphasizes writing and reading as elements of active learning and critical thinking. It is an intensive writing course that will focus on narration, description, analysis, argument, and synthesis/research.

Prerequisites and Other Notes: Typically taken in conjunction with English 150. It is recommended to have an ACT English score of 18+ or a 450+ in Verbal/Critical Reasoning on the SAT.

*Seniors may opt to take this course if they did not do so their junior year, but they must also enroll in English 12.

ENGLISH 150 INTRODUCTION TO LITERATURE

Grade Level: 11 (*12) Credits: .5 in English 11; 3 hours college credit

This is a college-level course that emphasizes the study of poetry, fiction, and drama through selected works of world literature. The course stresses basic themes and formal elements found in literature. The course will explore a variety of literary depictions of human experience and values; present various strategies for responding to, analyzing, and interpreting literary works; consider various author's cultural contexts in relation to their literary works; and discuss student's responses to literary works in terms of relevance and values.

Prerequisites and Other Notes: English 101 completion.

*Seniors may opt to take this course if they did not do so their junior year, but they must also enroll in English 12.

ENGLISH 102 ENGLISH COMPOSITION II

Grade Level: 12 Credits: .5 in English 12; 3 hours college credit

This is a college-level course that 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.

Prerequisites and Other Notes: English 101 completion. Typically taken in conjunction with Communications 100.

COMMUNICATIONS 100 SPEECH COMMUNICATION

Grade Level: 12 Credits: .5 in English 12; 3 hours college credit

This is a college-level course that emphasizes a practical 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.

Prerequisites and Other Notes: Students will be expected to give formal and informal presentations in class as part of their grade. Students need special permission to take WVSU Communications 100 without English 102.

HISTORY 207-AMERICAN HISTORY TO 1865

Grade Level: 10-12 Credits: .5 in US Comp. History; 3 hours college credit

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): English 101 must be taken concurrently or as a prerequisite OR by special teacher approval.

HISTORY 208-AMERICAN HISTORY FROM 1865

Grade Level: 10-12 Credits: .5 in US Comp. History; 3 hours college credit

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 is 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): English 101 must be taken concurrently or as a prerequisite OR by special teacher approval.

MATH 120 COLLEGE ALGEBRA

Grade Level: 10-12 Credits: .5 in Trigonometry/Pre-Calculus; 3 hours college credit

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

Prerequisites: Algebra I, Geometry and Algebra II. It is recommended that they have a Math ACT score of 21+ or a 500+ Math score on the SAT.

MATH 121 PRE-CALCULUS

Grade Level: 10-12 Credits: .5 in Trigonometry /Pre-Calculus; 4 hours college credit

Properties and applications of algebraic and transcendental functions, angles, trigonometric ratios and identities, conic sections, polar coordinates, systems of equations, and matrices.

Prerequisite(s): A grade of C or better in MATH 120 is required.

MATH 119E COLLEGE ALGEBRAIC METHODS

Grade Level: 10-12 Credits: 1 in Quantitative Reasoning; 3 hours college credit

Quadratic equations, radical expressions, complex numbers, systems of linear equations, graphs of functions, exponentials and logarithms.

Prerequisite(s): Algebra I and teacher recommendation.

MUSIC 107 APPRECIATION OF MUSIC/HISTORY

Grade Level: 10-12 Credits: .5 in Fine Arts; 3 hours college credit

An introduction to music for the non-major through historical survey and the development of listening skills. The individuals in the class will be expected 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.

PSYCHOLOGY 151 GENERAL PSYCHOLOGY

Grade Level: 10-12 Credits: .5 in Psychology; 3 hours college credit

A general survey of principles, theories, and fields of psychology with emphasis on application. This course is designed for the student who wishes to gain a greater understanding of human behavior.

SOCIOLOGY 100 INTRODUCTION TO SOCIOLOGY (Online Course)

Grade Level: 10-12 Credits: .5 in Sociology: 3 hours college credit

A general survey of the discipline, its methods, basic concepts and area of study. The course examines human organization and institutional life, the social process of socialization, conflict and its resolution and social change.

WEST VIRGINIA UNIVERSITY-PARKERSBURG COURSES

AGRI 223 FLORICULTURE

Grade Level: 11-12 Credits: 1 in Advance Floral Design; 3 house college credit

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 Level: 11-12 Credits: 1 in Electrical Trades I; 3 hours college credit

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.

Prerequisites and Other Notes: This course is part of the Advanced Manufacturing program at WVU-Parkersburg. Students must be accepted in the program to enroll in the course.

ELEC 112 INTERMEDIATE AC/DC APPLICATIONS & ELECTRICAL SYMBOLS

Grade Level: 11-12 Credits: 1 in Electrical Trades III; 3 hours college credit

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.

Prerequisites and Other Notes: This course is part of the Advanced Manufacturing program at WVU-Parkersburg. Students must be accepted in the program to enroll in the course.

ENGL 107 TECHNICAL WRITING

Grade Level: 11-12 Credits:1 in Technical English Language Arts; 3 hours college credit

This course develops technical writing skills and strategies related to workplace processes and reports. Topics may include: types of teams, audience levels, ethics, document design, graphics, routine correspondence, description, process analysis, instructions, standard operating procedures, and reports.

Prerequisites and Other Notes: This course is part of the Advanced Manufacturing program at WVU-Parkersburg. Students must be accepted in the program to enroll in the course.

IM 126 INTRODUCTION TO MAINTENANCE MECHANICS

Grade Level: 11-12 Credits:1 in Production & Design Concepts; 3 hours college credit

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.

Prerequisites and Other Notes: This course is part of the Advanced Manufacturing program at WVU-Parkersburg. Students must be accepted in the program to enroll in the course.

MATH 103 INDUSTRIAL MATHEMATICS

Grade Level: 11-12 Credits:1 in Transitional Math for Seniors; 3 hours college credit

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; ratios and proportions; right triangle trigonometry; and histograms.

Prerequisites and Other Notes: This course is part of the Advanced Manufacturing program at WVU-Parkersburg. Students must be accepted in the program to enroll in the course.

AGRICULTURAL EDUCATION

FFA is an integral component of the program and provides curricular opportunities that enhance student achievement. Participation in FFA is highly recommended.

AGRICULTURE EXPERIENCE PROGRAM (SAE)

Grade Level: 10-12 Credit: 1

The Supervised Agricultural Experience is a hands-on, student-planned way for students to apply skills learned in the classroom to real world agricultural experiences. With help from their agricultural teacher(s), students develop an SAE project based on one or more SAE categories: Entrepreneurship, Placement, Research and Experimentation, and Exploratory.

Prerequisites and Other Notes: Students must be enrolled in an agriculture class or be in an approved course of agriculture study. Supervised Agricultural Experience, which takes place throughout the year, may earn this additional 1 credit.

INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES (Ag. I)

Grade Level: 9-12 Credit: 1

Students learn about the practical application of raising domestic animals and crops, agricultural career exploration, record keeping, safe operation of a farm tractor, and participation in FFA. In addition to classroom instruction, each student is required to have a supervised agricultural experience program at home or in an agricultural-related business. Students will also receive instruction in agricultural mechanics with particular emphasis on safety and proper usage of tools and oxyacetylene cutting and welding, tool fitting, hot metal work, and soldering.

Prerequisites and Other Notes: Instructor approval required for students in grade 12.

THE SCIENCE OF AGRICULTURE (Ag. II)

Grade Level: 10-12 Credit: 1

This course is designed to enable students to further develop skills in the FFA supervised agricultural experiences, leadership, and record keeping. Students will be able to identify and use soils correctly, determine the PH, and

evaluate them for agricultural and nonagricultural use. Also, students will be able to identify human dependence on plants, and describe plant functions, reproduction, and classification. Additionally, identification of weeds, insects, and diseases is taught. Students will be introduced to animal nutrition which includes ruminant digestion and ration balancing. A portion of the class will be spent in the agricultural mechanics shop with an emphasis on basic skills.
Prerequisites and Other Notes: Introduction to Agriculture, Food & Natural Resources

FUNDAMENTALS OF AGRICULTURE MECHANICS (Ag. Mechanics I)

Grade Level: 9-12 Credit: 1
This is a basic course to develop mechanical skills in working on a farm or in other agricultural occupations. The major topics of study will include basic drawing, figuring a bill of materials, tool and wood identification, power and hand tool woodworking, electric arc welding, oxy acetylene cutting, small gas engine repair, plumbing, masonry work, and tool fitting.
Prerequisites and Other Notes: Class may include lifting and/or physical activity.

AGRICULTURE STRUCTURES (Ag. Mechanics II)

Grade Level: 10-12 Credit: 1
The course includes gasoline and diesel engine operation and repair, basic ignition service, and hydraulics. Farm equipment operation and maintenance are also studied.
Prerequisites and Other Notes: Agriculture Mechanics Fundamentals **and** Introduction to Agriculture Food & Natural Resources (Ag. I) for two semesters **or** can be taken concurrently with Introduction to Ag I. Class may include lifting and/or physical activity.

AGRICULTURE EQUIPMENT AND REPAIR (Ag. Mechanics III)

Grade Level: 11-12 Credit: 1
This course includes maintenance of machinery and large equipment, and equipment operation. Students will apply principles of service and repair power transmission systems, hydraulic systems, electrical systems, and steering, suspension, traction and vehicle performance systems. Tools used for these procedures will allow students to demonstrate proper skills and safety. Students will also employ appropriate techniques to demonstrate application of GIS/GPS systems principles, and use computer applications to utilize spatial data.
Prerequisites and Other Notes: Agriculture Structures. Class may include lifting and/or physical activity.

COMPANION ANIMAL CARE

Grade Level: 9-12 Credit: ½
Students receive specific training in the selection and care of small animals: dogs, cats, rabbits, birds (exotics), and others. Breeds, selection, nutrition, and health care as well as fitting and grooming are included in this class which offers numerous hands-on activities.
Prerequisites and Other Notes: Non-agricultural students may take this course. Class may include lifting and/or physical activity. This course also involves working with live animals. Any student with pet allergies, please talk to the instructor before enrolling in this course.

AGRICULTURAL COOPERATIVE EDUCATION

Grade Level: 12 Credit: Maximum 3
This course is designed for seniors in agricultural education classes; students must be in their third or fourth year of agriculture classes with satisfactory grades. Students must be placed in an agricultural occupation and will receive wages, credits toward graduation, and receive school-release time of a maximum of three hours per day. Students who wish to enroll will need approval from the agriculture teacher. An attendance contract will be required. The contract will be signed by the student, parent/guardian, administrator and program coordinator. This course will give students experience in a potential agricultural career. Some placement possibilities include veterinary assistant, tractor/machinery sales and service, floriculture industries, and other agricultural-related businesses.
Prerequisites and Other Notes: Must be an Agriculture completer and have Ag teacher permission. Ag co-op students may add one period of Senior Enrichment for travel time.

FISH AND WILDLIFE MANAGEMENT (Offered every other year)

Grade Level: 10-12 or teacher approval Credit: 1
This specialization course covers topics on advanced wildlife management principles, water quality, fish biology, history of fish and wildlife, habitat management, life history and wildlife values as a natural resource. Students

utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. The teacher provides each student with real-world learning opportunities and instruction.

FLORICULTURE

Grade Level: 9-12 Credit: 1

This course introduces students to careers in the floral industry and provides basic instruction in the techniques of floral design and merchandising. Design elements such as balance, scale, harmony, unity, accent, focalization of interest, and rhythm will be studied. Floriculture includes art, science, and technology. Students will work with real flowers, artificial flowers, and plants to create and merchandise corsages, boutonnieres, dish gardens, wreaths and other floral pieces. Non-agriculture majors may take this course.

Prerequisites and Other Notes: Fine Arts credit

FRUIT AND VEGETABLE PRODUCTION

Grade Level: 10-12 Credit: 1

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.

Prerequisites and Other Notes: Greenhouse Production & Management OR Horticulture. Class may include lifting and/or physical activity.

FLORICULTURE II (Dual Credit Option)

Grade Level: 11-12 Credit: 1

In this course students will be provided with an overview of the floristry industry. Students will be instructed in the ways to create all the necessary arrangements, corsages, and accessories for florist holidays throughout the year. Students will also learn the techniques necessary for creating the flowers for a wedding. They work in the greenhouse as well as assist in floral arranging with the regular class. Identification of floral tools and plants will be emphasized. Florist shop operating procedures will be discussed, with special emphasis placed on becoming a florist.

Prerequisites and Other Notes: Introduction to Agriculture, Food & Natural Resources, Floriculture, and teacher approval required. Students may be able to receive 3 hrs. of college credit through WVU-P as Agri Science 223.

GREENHOUSE PRODUCTION & MANAGEMENT

Grade Level: 10-12 Credit: 1

Emphasis is on greenhouse operations and plant propagation, including flower and vegetable growing. Additional skills will be developed in small engine troubleshooting, landscape and floral design, and lawn and shrub care/maintenance/propagation.

Prerequisites and Other Notes: Class may include lifting and/or physical activity.

HORTICULTURE

Grade Level: 9-12 Credit: 1

This field of study explains the concepts of plant growth and how plants are used in our environment for aesthetics, ecosystems and as plant products for human consumption. Students will identify the different classifications of plants and identify the levels of plant processes and propagation. Students will receive hands-on experience working in the school greenhouse and will work to solve real world problems while learning workplace skills. Students will participate in various FFA activities.

Prerequisites and Other Notes: Class may include lifting and/or physical activity.

LEADERSHIP DEVELOPMENT

Grade Level: 11-12 Credit: ½

This course is designed to provide students with basic leadership skills. Instructional areas include leadership styles, goal setting, time management, public speaking, job skills and interpersonal relationships. Discussions of current agricultural issues, parliamentary procedure, and conflict resolution skills will be studied. This is a good class for FFA officers or anyone desiring additional training in leadership.

Prerequisites and Other Notes: Must be an Agriculture completer and have Ag teacher permission.

NATURAL RESOURCES MANAGEMENT

Grade Level: 10-12 Credit: 1

This course will provide students with skill sets in soil and water management, forestry and wildlife practices, land management at the local, state and federal levels. Emphasis will be given to environmental laws and government agency regulations.

Prerequisites and Other Notes: Introduction to Agriculture, Food & Natural Resources OR teacher approval. This class will count as a 3rd science credit for high school graduation requirements. However, this class is not accepted by NCAA and many four-year colleges for admissions because it is not considered a lab science.

AGRICULTURE SMALL ENGINE REPAIR

Grade Level: 11-12 Credit: 1

This course is an elective course in the Agriculture, Food and Natural Resources cluster. The skill sets are focused in this course to develop a students' knowledge and abilities in the theory of operation, maintenance, troubleshooting and repair of small gasoline engines. Safety instruction is integrated into relevant activities. The teacher will provide each student with real world learning opportunities and instruction related to selection, development, and maintenance of individual Supervised Agricultural Experience (SAE) programs.

WORK-BASED INTEGRATION AND TRANSITION

Grade Level: 11-12 Credit: 1

The skill sets in this course give students the opportunity to integrate theory and practice by interacting with industry professionals. Students will study various requirements for employability including ethics, communication, teamwork, and professionalism. Students will participate in hands-on, digital, or work-based experiences related to industry settings in order to practice skill sets and to transition from student to employee. A supervised project will be developed in one or more of the following categories: Entrepreneurship (ownership or operation of a business); Placement (employment or internship); Research and Experimentation (planning and/or conducting a scientific experiment); Exploration (exploration of related careers through activities such as shadowing employees in various work settings, conducting on-line research, attending professional development activities, etc.). Students will develop materials to supplement their Simulated Workplace portfolios.

ART

All Art classes count as a credit in Fine Arts.

ART I

Grade Level: 9-12 Credit: 1

The Art I program is an introductory art class open to students in grades 9-12 with a curriculum designed to build art skills through a variety of projects. The course offers students an overview of two-dimensional and three-dimensional art forms. This program is designed to increase student knowledge of art vocabulary and processes in design, printmaking, drawing, painting, pottery, and art appreciation. Some of the materials used include tempera paint, chalk, charcoal, pencil, colored pencils, ink, watercolors, acrylic, pastels, and collage materials. Students will also research famous artists each month.

ART II

Grade Level: 10-12 Credit: 1

The Art II curriculum is advanced and designed to enhance and build upon skills. The students will be given larger projects with more time to complete; also, more advanced subject matter and more difficult project assignments. Therefore, a degree of independent study is expected. The assignments given are to stretch creativity as well as encourage mental imagery of a project rather than simply duplicate or achieve a quick answer. New art media to be explored will include sculpture, photography, air brush, oil and acrylic paints, and paper casting. Projects include the more advanced techniques in watercolor, drawing, and pen and ink.

Prerequisites and Other Notes: Successful completion of Art I with above average achievement (grade B or above) is recommended. Participation in art shows (local and state level) is required.

ART III

Grade Level: 11-12 Credit: 1

The Art III curriculum is designed to emphasize the problem-solving approach to art. Students involved in this level of the art program will be given a verbal or written problem to solve in a two or three-week time frame. Different media exploration is mandatory. Project grades will reflect student interpretation, problem solving, class work, and actual project completion. Students will also be involved with career investigation in related art fields.

Prerequisites and Other Notes: The successful completion of Art I and II, with an above average achievement (Grade B or above) and participation in local, county, and state art shows. Students will work toward portfolio completion.

ART IV

Grade Level: 12 Credit: 1

The Art IV curriculum has been developed to maximize student "hands-on" time in a wide range of art media. The program encourages creative development by allowing each student to work in an area of art and then specialize or concentrate on it for one nine-week period. In addition to required project completion, students are to learn new vocabulary and techniques. A written, four-page paper is required each semester. The program is designed to be flexible by allowing the student a choice of media as well as self-expression through the art processes. It is structured so that each of the basic steps is mastered before the student attempts the next art process.

Prerequisites and Other Notes: Teacher approval. Completion of Art I, II, and III with above average achievement recommended (grade B or above), completion of a junior art show, participation in the senior art show in May, and completion of a body of work in their portfolio.

ART HISTORY, APPRECIATION & CRITICISM

Grade Level: 10-12 Credit: ½

The students identify, discuss, and compare cultural and multi-cultural influences on the arts, including social, political, economic, functional and aesthetic considerations. Students will develop a variety of critical analyses and examine different philosophies and viewpoints. Students' experiences with art media within its historical context will connect selected artworks to the artist's process. Knowledge of related careers in the fields of art history and aesthetics are covered as well as the application of technology to assist learning.

Prerequisites and Other Notes: Art I

AP ART HISTORY

Grade Level: 10 -12 Credit: 1

This is an introductory college-level art history. It cultivates an understanding of art history through analyzing works of art and placing them in historical context as they explore concepts like culture and cultural interactions, theories and interpretations of art, the impact of materials, processes, and techniques on art and art making, and understanding purpose and audience in art historical analysis. AP Art History may serve as a social studies or art elective course.

Prerequisites: A or B in World History and Art I; teacher and counselor approval required. Virtual course only.

CERAMICS/POTTERY

Grade Level: 9-12 Credit: ½

Ceramics/Pottery class will enable students to explore the three-dimensional design, while developing useful and sculptural forms. This course will allow students to comprehend the methods of hand-built clay construction and basic sculpting techniques, such as the pottery wheel and basic wheel throwing techniques.

CRAFTS

Grade Level: 9-12 Credit: ½

Students will have the opportunity to experience a variety of art mediums such as clay, yarn, macrame, paint and wood, while learning multiple studio techniques.

GRAPHIC ARTS

Grade Level: 10 -12 Credit: ½

Students will be provided instruction that integrates content standards, learning skills, and technology. Students enrolled in Digital Art electives will be provided in-depth study in selected media, techniques, and technology. In this course, students will explore this special genre of art found in everything from advertising to animation to photography and beyond. Students will gain experience using graphic art software and apps by researching, designing and creating art on a tablet or computer.

CREATIVE ARTS/SCULPTURE

Grade Level: 10-12 Credit: ½

Students will explore sculpture throughout history, examine ancient Greek sculptures and continue to study contemporary designs of today. Students gain experience in sculpture production by researching, designing and mastering production in clay, Mache, wood, plaster and latex.

Prerequisites and Other Notes: Art I

STUDIO ART I

Grade Level: 10-12 Credit: ½

This art elective provides in-depth study in selected media, techniques and processes. Expectations encompass proficiency in craftsmanship; participation in field experiences; related vocabulary literacy; understanding the properties of the media; and the safe and responsible care of equipment, tools and materials reflecting life skills. This elective may incorporate 2D and 3D media including but not limited to drawing, painting, printmaking, photography, graphic design, and crafts.

Prerequisites and Other Notes: Art 1

CAREER EDUCATION / OTHER

TEST STRATEGIES-ACT/SAT TEST PREP

Grade Level: 10-12 Credit: ½

The ACT/SAT test preparation course is an elective which helps prepare students for the ACT and SAT tests.

NOTE: This class is an elective that does not count towards core graduation requirements.

COMMUNITY SERVICE

Grade Level: 11-12 Credit: ½ or 1

This course encourages students to get involved with community volunteerism. Students shall be placed in an area where they can volunteer their services to a school, hospital, nursing home, senior citizen center, day care center, nursery school, or a governmental service organization and be provided hands-on training and work experience as a part of the course.

Prerequisites and Other Notes: Students must have: 1) teacher/counselor and principal recommendation, 2) faithful attendance, and 3) a standard of behavior that meets the Ravenswood High School guidelines as indicated in the student handbook.

PARENTING AND STRONG FAMILIES

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, work sites and communities.

SENIOR ENRICHMENT

Seniors may be granted an enrichment opportunity during the regular school day, up to a four period block, to pursue work experience, college classes, trade certifications, or significant community service endeavors. Students must have a 2.5 cumulative GPA and have satisfactory discipline and attendance records. This is an ungraded/uncredited experience, and is possible, only if the student is on track to graduate and meets the criteria.

- **Work Experience**-Students approved for work experiences must work at least 15 hours during school day hours of 7:30-3:30 per week. Pay stubs must be presented to the Senior Enrichment Supervisor two times per month. Supervisor evaluations will be required monthly by the Senior Enrichment Supervisor.
- **Non-Dual Credit Online College/Apprenticeship Classes**-May be taken through several postsecondary institutions for a reduced rate. One period of Senior Enrichment may be taken per college course each semester. College course participation must be provided to the Senior Enrichment Supervisor.
- **Community Service Projects**-Must include a signed contract between supervisor and the student. Assisting a teacher at RHS can only be done through Co-op or Community Service periods.

COMPUTER / BUSINESS EDUCATION

ACCOUNTING PRINCIPLES I

Grade Level: 9-12 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. Students will have real world learning opportunities and instructions.

Prerequisites and Other Notes: This course can be offered as an "individualized" class for any senior requesting the course. An overall "C" average is required. Business and Marketing Essentials is recommended but not required. Students may not enroll in the second semester without successfully completing the first semester. An advanced accounting class, Accounting Principles II, may be taken as an individualized course of study at the discretion of the computer/business teacher .

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. Students will be provided with real world learning opportunities and instruction.

BUSINESS COMPUTER APPLICATIONS I

Grade Level: 9-12 Credit: 1

This self-paced course uses an online program designed to become proficient in Microsoft Office Suite 2019. Students that complete this industry-recognized certification program validate skills in Microsoft Office applications. Students utilize problem-solving techniques in timed challenge labs to create professional documents and presentations throughout the course. Students will be provided with real world learning opportunities and instruction that will open doors to employment opportunities as a Microsoft Office Specialist.

BUSINESS COMPUTER APPLICATIONS II

Grade Level: 10-12 Credit: 1

This self-paced course using an online program is designed to continue improving skills in Microsoft Office based on what the student completed in Business Computer Applications I. Students will take an exam to be certified in each software program of Microsoft Office Suite. Students utilize problem-solving techniques and participate in

hands-on activities to develop an understanding of course concepts. Students will be provided with real world learning opportunities and instruction.

Prerequisites and Other Notes: An overall "C" or better in Business Computer Applications I. Students may not enroll in the second semester without successfully completing the first semester.

BUSINESS LAW & ETHICS

Grade Level: 10-12 Credit: 1

Business Law & Ethics introduces students to the legal principles and ethical standards that govern the modern business world. Students explore topics such as contracts, consumer and employment law, business ownership, intellectual property, property rights, and the role of government and courts in regulating business practices. The course also emphasizes ethical decision-making, helping students analyze real-world business dilemmas and understand how laws and ethics influence business behavior.

Prerequisites and Other Notes: Business Computer Applications I

COMPUTER SCIENCE/PROGRAMMING (Dual Credit Option Available)

Grade Level: 10-12 Credit: 1

This course introduces the fundamental concepts of procedural programming using the C programming language. Topics include data types, control structures, functions, arrays, files and the mechanics of compiling, running, testing, and debugging programs. It offers an introduction to the historic

Prerequisites and Other Notes: Algebra I, Geometry and Algebra II.

Dual Credit Notes: It is recommended that they have a Math ACT score of 21+ or a 500+ Math score on the SAT. Students may receive 3 hrs of college credit at the end of the 2nd semester through WVSU as Computer Science 101.

COOPERATIVE OFFICE EDUCATION

Grade Level: 12 Credit: 1- 4

Consists of the following courses: Career & Work Skills Training I, Career & Work Skills Training II, CWST Work Experience I, and CWST Work Experience II

Cooperative Office Education is a terminal course taken during the student's senior year. It emphasizes the individual skills, knowledge and attitudes in the administrative, information, and business management areas. The object of this course is to graduate a student who has work experience and is somewhat adjusted to the business world. The student attends school for at least 4 periods and works the remainder of the day with teacher/employer supervision. The teacher coordinates the in-school work with the out-of-school work to enable the student to become a qualified, efficient employee. Students working in the school setting will be paid 75% of minimum wage for a maximum of three (3) hours per day during school hours Monday through Friday. Students working out in the community will be paid no less than minimum wage for a maximum of three (3) hours per day during school hours Monday through Friday.

Prerequisites and Other Notes: Completion of 1.) Office Procedures and 2.) one semester of another business/computer class. The Co-Op Coordinator may opt to dismiss this second requirement. Students must have an overall grade point average of 2.5, satisfactory attendance, and have the recommendation of high school staff as well as approval of the Co-Op coordinator.

KEYBOARDING

Grade Level: 9-12 Credit: 1/2

Topics include speed and accuracy, using home keys, alpha keys, punctuation, number keys, and using online keyboarding resources. Students will also learn how to create, edit, and save word processing documents and learn posture tips.

OFFICE PROCEDURES

Grade Level: 10-12 (priority to 11th) Credit: 1

This course is designed to develop student understanding and skills in areas such as personal development and employability skills, managing records, process mail, communication duties, keeping financial records, applying computing, 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. Students will be provided with real world learning opportunities and instruction.
Prerequisites and Other Notes: An overall "C" average is required. The Business and Marketing Principles course is recommended but not required. Students may not enroll in the second semester without successfully completing the first semester.

PERSONAL FINANCE

Grade Level: 9-12 Credit: 1
This one semester course is designed to develop student understanding and skills in such areas 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) to develop an understanding of course concepts. Teachers should provide each student with real-world learning opportunities and instruction.
Note: Beginning with the 2024-2025 freshman cohort, Personal Finance is a prescribed elective course.

AP COMPUTER SCIENCE A

Grade Level: 11-12 Credit: 1
AP Computer Science A emphasizes programming methodology with an emphasis on problem solving and algorithm development and is meant to be the equivalent of a first-semester college course in computer science. It also includes the study of data structures and abstraction. Students will take the AP Computer Science A exam at the end of the school year. Students scoring at the accepted level may receive college credit.
Prerequisites and Other Notes: Grade of B or better in Algebra I. Students must take the AP exam at the conclusion of the course. See *Advanced Placement Classes* at the beginning of the Programs of Study. Also, this course may be taken in lieu of the 4th math class for graduation. Teacher and counselor approval required.

COMPUTER SCIENCE ESSENTIALS

Grade Level: 9-12 Credit: 1
Computer Science Essentials (CSE) is designed to be a full-year course implemented in the 9th grade. This course is an excellent entry point for new high school computer science (CS) learners. And students who have prior CS experiences will find ample opportunity to expand upon those experiences in this course. All students who take CSE will have many opportunities for creative expression and exploration in topics of personal interest, whether it be through app development or connecting computing with the physical world. CSE introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text-based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the *Python*® programming language.

AP COMPUTER SCIENCE PRINCIPLES

Grade Level: 10-12 Credit: 1
Computer Science Principles is an introductory college-level course for non-computer science majors. Students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges like app development and simulation. This course is endorsed by the College Board, giving students the option to take the AP Computer Science Principles exam for college credit.
Prerequisites and Other Notes: Grade of B or better in Algebra I. Students must take the AP exam at the conclusion of the course. See *Advanced Placement Classes* at the beginning of the Program of Studies. Teacher and counselor approval required.

ROBOTICS I

Grade Level: 9-12 Credit: 1
Students will walk through the design and build a mobile robot to play a sport-like game. During the 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: Students may not enroll in the second semester without successfully completing the first semester.

ROBOTICS II

Grade Level: 10-12 Credit: 1
Students will continue to walk through the design and build a model 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.
Prerequisites and Other Notes: Robotics I

ROBOTICS III

Grade Level: 11-12 Credit: 1
Students will continue to walk through the design and build a model 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.
Prerequisites and Other Notes: Robotics II

ROBOTICS IV

Grade Level: 12 Credit: 1
Students will continue to walk through the design and build a model 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.
Prerequisites and Other Notes: Robotics III

DRIVER EDUCATION

DRIVER EDUCATION

Grade Level: 9-12 Credit: ½
Classroom instruction and in-car training are offered. The course consists of classroom instruction (90 hours), behind-the-wheel driving (6 hours), and in-car observation of other young drivers (10 hours). Emphasis is placed upon the IPDE process in which students will learn to identify potential hazards, predict when and where possible points of conflict may develop, decide on the best course of action, and execute the appropriate driving maneuver in a timely fashion.

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 to be enrolled in the course. The student must not have a mental or physical limitation that would prevent him or her from qualifying for a West Virginia operator's license. If space is available, consideration will be given to students who are 15 years of age at the beginning of the semester in which the student

wishes to enroll. If a student fails this course, they are NOT given enrollment priority during later offerings of the course. Due to the demanding nature of the driving schedule, students wishing to enroll in driver education must have a history of academic responsibility.

In order for the student to receive a West Virginia Driver Education Certificate at the end of the semester, the following criteria must be met: (1) the student must achieve at least a 75% "C" in BOTH the classroom and laboratory phases of the course; (2) the student must complete the required number of hours of classroom instruction, behind-the-wheel training, and in-car observation; (3) the student must demonstrate to the instructor's satisfaction the ability to safely operate a motor vehicle on the streets and highways of West Virginia.

Parents are reminded that this course includes only six hours of behind-the-wheel instruction. To become safe and responsible drivers, students will require many additional hours of practice. Students are strongly encouraged to hold a learner's permit or driver's license while enrolled in driver education.

ENGLISH AND LANGUAGE ARTS

ENGLISH 9

Grade Level: 9 Credit: 1

This class will emphasize basic composition and grammar skills needed by college-bound students. Students will learn to write coherent paragraphs and three-to-five paragraph essays. These will include description, narration, analysis, and argument/persuasion. Emphasis will also be placed on taking directions, thinking skills, reference skills, and note-taking skills. Students will be introduced to library research, and may produce a short paper or annotated bibliography to show their proficiency in this area. Students will also become acquainted with various literary genres including, but not limited to, short stories, plays, lyric poetry, and nonfiction. Written and oral reports based on outside readings may be required.

Prerequisites and Other Notes: While not recommended, students may take two English classes concurrently (preferably 9 & 10 or 10 & 11) if the student has failed an English class or if it is necessary for on-time graduation.

ENGLISH 9 HONORS

Grade Level: 9 Credit: 1

This course places a strong emphasis on reading, thinking, and writing skills. Analyses of literary works of several genres will be a part of the course, as will creative responses to the literature. Special emphasis will be given to vocabulary, grammar, and organizational skills. Reports on outside reading may be required. Requirements also include the completion of a library research project. This course will prepare students for the Dual Credit program.

Prerequisites and Other Notes: Eighth grade English teacher and counselor approval is required, with a previous grade of "A" or "B" in the course.

ENGLISH 10

Grade Level: 10 Credit: 1

This class will introduce students to writing about literature through examination of selected works of literature. Emphasis will be on composition, note-taking skills, analytical thinking, and vocabulary. Through analysis and writing, students will become acquainted with various literary genres including, but not limited to, short stories, plays, narrative and lyric poetry, and the novella. Students will be involved in formal research and will be encouraged to write responses to literature. Additional emphasis will be placed on following directions and adherence to formal manuscript standards. Written and oral reports based on outside readings may be required.

Prerequisites and Other Notes: English 9. While not recommended, students may take two English classes concurrently (preferably 9 & 10 or 10 & 11) if the student has failed an English class or if it is necessary for on-time graduation.

ENGLISH 10 HONORS

Grade Level: 10 Credit: 1

This course will move the student toward self-discipline and independent study in the language arts. The focus will be on reading great literature of the world and responding to it in creative and analytical ways both written and oral. Emphasis will be placed on vocabulary, grammar, and thinking skills. Reports on outside reading may be required, as well as a research project. This course will prepare students for the Dual Credit program.

Prerequisites and Other Notes: English 9. Teacher and counselor approval is required, with a previous grade of

"A" or "B" in the course.

ENGLISH 11 (Dual Credit Option)

Grade Level: 11 Credit: 1

In this course, students will read and analyze fiction and nonfiction. Students will effectively evaluate and use multiple sources to complete a research project. Instruction in grammar and usage will be emphasized. Written and oral reports on outside readings may be required.

Prerequisites and Other Notes: English 10. While not recommended, students may take two English classes concurrently (preferably 9 & 10 or 10 & 11) if the student has failed an English class or if it is necessary for on-time graduation.

Dual Credit Option: Students may substitute Dual Credit English 101 and English 150 for English 11 credit. Students must have an overall GPA of 2.5 and it is recommended that they have an ACT 18+ in English or a 450+ on the SAT.

AP ENGLISH LANGUAGE AND COMPOSITION

Grade Level: 11 Credit: 1

This is a college-level examination of the writer's art, and aims to prepare students for the AP examination in May. The course emphasizes response to selected passages-primarily non-fictional-and an in-depth analysis of the methods used by writers to achieve desired effects. Students will then apply these techniques to their own writing. A documented critical/analytical paper of "research paper length" will be required as will regular oral and written reports on outside readings. College credit is available at most colleges to students who score high enough on the spring AP exam. Students will also study American literature and receive instruction in preparing college application essays.

Prerequisites and Other Notes: English 9 and 10. Teacher and counselor approval is required. See *Advanced Placement Classes* at the beginning of the Program of Studies. AP exam required. After school review for the exam may be required during the spring.

ENGLISH 12 (Dual Credit Option)

Grade Level: 12 Credit: 1

In this course, students will read and analyze fiction and nonfiction. The course will emphasize composition of analytical and critical essays. The course will examine the fundamentals of argument, logic, and evidence. Students will also review résumé/cover letter writing and interview techniques. Writing in response to literature and within a time frame will be emphasized as will vocabulary, grammar, note-taking, and the necessity of correctness of form. Each student will do a library research paper as partial fulfillment of credit for this class. Written and oral presentations based on outside reading may be required.

Prerequisites and Other Notes: English 11.

Dual Credit Option: Students substitute Dual Credit English 102 and Communications 100 for English 12 credit.

AP ENGLISH LITERATURE & COMPOSITION

Grade Level: 12 Credit: 1

This course is a college-level class designed to prepare the student for the Advanced Placement examination in May. It is based on the close analysis of the world's best literature. Students will read prose, both fiction and nonfiction, and poetry with the aim of understanding and writing analyses of the techniques the author uses to create the effect of the piece. Students will write at least two papers of length, one of which will be an annotated research paper. Students will be expected to complete several outside readings.

Prerequisites and Other Notes: English 9, 10, and 11. Teacher and counselor approval is required. See *Advanced Placement Classes* at the beginning of the Program of Studies. AP exam required. After school review for the exam may be required during the spring.

CREATIVE WRITING AND READING

Grade Level: 12 Credit: 1

Creative Writing and Reading provides an overview of literary analysis and emphasizes the creation of a body of student's original work in order to reflect growth and development in the student's writing craft over time. Students engage in rigorous examination of prose, poetry, and drama through the application of multiple critical lenses. Special attention is given to studying literary structures and elements beyond the scope of foundational English language arts courses.

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

TECHNICAL ENGLISH LANGUAGE ARTS

Grade Level: 12 Credit: 1

This course is designed to enhance students' communication skills through relevant, industry-specific contexts for reading, writing, speaking/listening, and language. Students engage in rigorous examination of technical and career related texts through real and simulated professional discourse experiences.

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

TRANSITION ENGLISH LANGUAGE ARTS FOR SENIORS

Grade Level: 12 Credit: 1

This course is designed for seniors who have not met the College & Career Readiness benchmark scores on the standardized assessment during the junior year. Its purpose is to develop mastery of the skills necessary to meet or exceed the required benchmark score.

Prerequisites and Other Notes: English 9,10, and 11. <u>This class is not accepted by the NCAA.</u>

APPALACHIAN LITERATURE & FOLKLORE

Grade Level: 9-12 Credit: ½

This course explores Appalachian literature and folklore, focusing on stories rooted in the region's unique cultural heritage. Students will examine key themes – including resilience, family, tradition, labor, the natural environment, and social change – while also investigating how stereotypes about the region have been formed and challenged in literature and media. Folklore units will highlight mountain ghost tales, folk heroes, tall tales, local legends, ballads, and folkways passed through oral tradition.

CREATIVE WRITING I

Grade Level: 9-12 Credit: ½

Creative Writing I is designed to include imaginative writing of fiction, poetry, and drama. Subjects of the students' choices 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.

Prerequisites and Other Notes: Fine Arts credit

CREATIVE WRITING II

Grade Level: 9-12 Credit: ½

The course builds on foundational skills, diving deeper into genres like drama, sci-fi, fantasy, or screenwriting, focusing on advanced revision, peer workshops, and developing unique authorial voice, often culminating in a polished portfolio or publication efforts, preparing students for college or further writing pursuits.

Prerequisites and Other Notes: Creative Writing I

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, video/film, and social media content; and that prepares individuals to be professional media journalists, editors, producers, directors and managers. This course includes instruction in the principles of news reporting; broadcast technology; 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. Students produce content for the school Facebook page and website, the "Red Devil Network".

Prerequisites and Other Notes: Video Journalism teacher approval is required. "C" average in English is also required. Students should not register for this class unless they are able to sacrifice some personal time during school hours and after school to complete assignments.

MYTHOLOGY

Grade Level: 9-12 Credit: ½

This is a course designed for students to explore ways to relate old stories to modern words, expressions, customs, traditions, superstitions, and symbols. It will encourage students to examine how man, since the beginning of time, has used his imagination to help explain the unknown. Through study of the gods of the sky, the gods of nature, and gods of the underworld, students will gain an understanding of our link with the past.

Prerequisites and Other Notes: Students need to have a C in previous English class.

PUBLIC SPEAKING

Grade Level: 10-12 Credit: ½

This course is designed to help students develop confidence, clarity, and effectiveness in spoken communication. Through a combination of practice, performance, and constructive feedback, students learn how to research, organize, write, and deliver a variety of speeches, including informative, persuasive, and impromptu presentations. The course emphasizes audience awareness, vocal delivery, body language, and the use of visual aids. Students also explore techniques for managing speech anxiety and becoming active, respectful listeners. By the end of the course, students will be prepared to speak with poise and purpose in academic, professional, and real-world settings.

SCHOOL NEWSPAPER I-IV

Grade Level 9 -12 Credit: 1

This class is designed for those students interested in various types of newspaper writing. Along with learning about aspects of journalism from the textbook, Newspaper is a laboratory class where students hold minor staff positions. Grades are partially determined by how well the responsibilities of positions are met; however, students will also be graded on preparation of short papers, tests, and/or notebooks each grading period. Students produce the school newspaper, "The School Spirit".

Prerequisites and Other Notes: Newspaper teacher approval required. "B" average in English required. Students should not register for this class unless they are able to sacrifice some personal time during school hours and after school to complete assignments.

SPEECH/ORAL COMMUNICATION (Dual Credit Option)

Grade Level 12 Credit: .5 in English 12; 3 hours college credit

This is a college-level course that emphasizes a practical 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.

Prerequisites and Other Notes: English 9, 10, and 11. Dual Credit Communications 100 to be paired with English 102 for English 12 credit. Students will be expected to give formal and informal presentations in class as part of their grade.

THEATER I

Grade Level: 9-12 Credit: 1

Upon successful completion of Theater, students will be able to analyze play texts, identify contemporary styles of theater/drama and depict characters in them. Students will identify basic properties of technical theater and demonstrate technical knowledge and skills. They will explore multiple interpretations for production ideas and research how the various art forms enhance a theater production. Other areas studied include a variety of cultures and historical periods related to theater. Assignments may involve dramatic monologue, short skits, poetry readings, and memorization of individual passages from plays.

Prerequisites and Other Notes: Fine Arts credit

THEATER II

Grade Level: 10-12 Credit: 1

This class is designed to provide experience in performance and play production. Students will experience performing, directing, technical design, blocking, writing plans, and various forms of theater technique. Assignments may involve dramatic monologue, short skits, poetry readings, and memorization of individual passages from plays.

Prerequisites and Other Notes: Theater I

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. Assignments may involve dramatic monologue, short skits, poetry readings, and memorization of individual passages from plays.

Prerequisites and Other Notes: Theater II

THEATER IV

Grade Level: 12 Credit: 1

Students will write scripts using multiple media with subtext, character motivation, dramatic problems, complications, crisis, climax, and resolution. Students will develop contrasting and consistent characters from classical, contemporary, realistic, and nonrealistic 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. Assignments may involve dramatic monologue, short skits, poetry readings, and memorization of individual passages from plays.

Prerequisites and Other Notes: Theater III

YEARBOOK (Levels I-IV)

Grade Level: 9-12 Credit: 1

This course is designed for those who have an interest in 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 students.

Prerequisites and Other Notes: Yearbook teacher approval required. "B" average in English. Students should not register for this class unless they are able to sacrifice some personal time during school hours and after school to complete assignments. Word processing skills are highly recommended.

YOUNG ADULT LITERATURE

Grade Level: 9-12 Credit: ½

This course explores stories geared toward adolescents, focusing on themes such as identity, resilience, and growth through novels, short stories, and other media. Students will develop critical thinking and analysis skills by engaging with diverse texts, connecting themes to their own lives and the wider world, and discussing social issues like race, class, and friendship. The course emphasizes diverse perspectives, current trends in YA, and allows for creative projects and discussion to enhance literary appreciation, strengthen essential ELA skills, and become more confdent, reflective, and empathetic readers.

FOREIGN LANGUAGE

The WVDE recommends two years of the same foreign language as good preparation for a four-year college or university. However, some colleges do not require foreign language for admission. Students should check the admission requirements for any college they are considering.

All foreign language courses are virtual courses offered through West Virginia Virtual School at no cost to students.

AMERICAN SIGN LANGUAGE I

Grade: 9-12 Credit: 1

The predominant sign language of Deaf communities in the United States, American Sign Language, is complex and robust. In this course you will be introduced to vocabulary and simple sentences and progress to grammatical structures through expanding your vocabulary with acquiring hundreds of new signs. You will explore Deaf culture – social beliefs, traditions, history, values and communities influenced by deafness. Additionally, you will explore interesting topics like Deaf education and Deaf arts and culture, and learn about careers where you can use your ASL skills.

AMERICAN SIGN LANGUAGE II

Grade: 9-12 Credit: 1

In ASL II you will explore how expressions can enhance signs and lend dimension to conversations, while learning vocabulary for descriptions, directions, shopping, making purchases, and dealing with emergencies. Also, students will learn about sequencing, transitions, role-shifts, and future tenses. Students will discover how to tell a story and ask questions, benefiting with greater exposure to deaf culture. Speed, conversations, signing skills, and cultural awareness are characteristics of this course.

Prerequisites and Other Notes: "C" average or better in ASL I is recommended.

AMERICAN SIGN LANGUAGE III

Grade: 10-12 Credit: 1

As you dive into more advanced ASL signing, including unique grammar features and advanced classifiers and locatives, you'll learn, compose, and present your new-found vocabulary and narratives by immersing yourself in Deaf culture and community. Students will advance from opinions, slang, and idioms, to using technology and media that offers authentic Deaf perspectives. You will develop verb tenses, grammar, and syntax.

Prerequisites and Other Notes: "C" average or better in ASL II is recommended.

FRENCH I

Grade Level: 9-12 Credit: 1

The initial course in a four-year sequence, French I, enables students to attain basic proficiency in the four fundamental skills in foreign language acquisition: listening, speaking, reading and writing. It is presented within the context of the contemporary French-speaking world and its culture.

Prerequisites and Other Notes: "C" average or better in English is recommended.

FRENCH II

Grade Level: 9-12 Credit: 1

A continuation of French I; emphasis remains on the four skills of language acquisition. Students further develop knowledge and understanding of the French-speaking world and its culture.

Prerequisites and Other Notes: "C" average or better in French I is recommended.

FRENCH 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 as well as advanced reading and writing skills. Cultural awareness and language proficiency will be strengthened.

Prerequisites and Other Notes: "C" average or better in French II is recommended.

FRENCH IV

Grade Level: 11-12 Credit: 1

Students will demonstrate further enhancement of acquired language skills through more proficient conversation, advanced literature, refined composition, and heightened cultural awareness.

Prerequisites and Other Notes: "C" average or better in French III is recommended.

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. It is presented

within the context of the contemporary Hispanic world and its culture.
Prerequisites and Other Notes: "C" average or better in English is recommended.

SPANISH II

Grade Level: 9-12 Credit: 1
A continuation of Spanish I 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" average or better in Spanish I is recommended.

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" average or better in Spanish II is 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" average or better in Spanish III is required.

AP SPANISH

Grade Level: 11-12 Credit: 1
The AP Spanish Language course is intended to cover a first-year college course in advanced Spanish composition and conversation. Emphasizing the use of Spanish for active communication; it encompasses aural/oral skills, reading comprehension, grammar and composition.
Prerequisites and Other Notes: Spanish teacher and counselor approval required. See *Advanced Placement Classes* at the beginning of the Program of Studies. Students must take the AP exam at the conclusion of the course.

HEALTH AND PHYSICAL EDUCATION

Note: All incoming freshmen will take their required full credit in Physical Education. Those same students, during their sophomore year, will take the required full credit in Health.

DANCE I - IV

Grade Level: 9-12 Credit: 1
Dance classes will focus on aerobic fitness choreographed to music using dance games, exercise techniques, and different types of dances. As courses advance, dance as a means of developing and maintaining a healthy lifestyle will be continued.
Prerequisites and Other Notes: Fine Arts credit. Class may include lifting and/or physical activity.

HIGH SCHOOL HEALTH

Grade Level: 10-12 Credit: 1
The major goal is to develop an awareness of one's responsibility for one's health and enable individuals to make wise decisions regarding those things, which influence personal health. This course includes units in physical fitness and testing, and in depth study of the systems of the human body, sex education (including AIDS awareness), specialized units on pertinent subjects such as alcohol, stress, anxiety and mental health, nutrition, tobacco prevention, drug abuse, infectious/noninfectious diseases, CPR, and career awareness in Health/Science.

TOPICS IN HEALTH (ADVANCED HEALTH)

Grade Level: 11-12 Credit: ½
This course further develops the knowledge and skills necessary for achieving optimal health over the course of a lifetime and enhances the knowledge of students who are seeking a post-secondary degree in the health-science field. Topics include: advanced nutrition (vitamins, supplements, meal planning), the reproductive system and pregnancy prevention, the immune system and communicable diseases, sports and recreational injuries, specialized

units on personal health assessment, health care, health law, imaging the body (ultrasounds, MRI, CT scan), lifetime fitness, and career development.
Prerequisites and Other Notes: Health I

FITNESS & CONDITIONING I

Grade Level: 10-12 Credit: ½ or 1
This course is a basic fitness program with weight training and cardiovascular conditioning. It is designed to increase strength, speed, endurance, flexibility, agility and power, to condition the total body.

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 Level: 10-12 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 Level: 11-12 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 Level: 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.

LIFETIME FITNESS

Grade Level: 9-12 Credit: ½
This course is designed to promote physical fitness as an integral part of maintaining a healthy lifestyle. Students will explore the five components of fitness (cardiovascular fitness, muscular strength, muscular endurance, body composition and flexibility). Students will also state the fitness value of various physical activities and design a personal fitness program.

PHYSICAL EDUCATION

Grade Level: 9 Credit: 1
Two semesters of Physical Education are required for all secondary students. This class offers special attention to refinement of diverse skills, knowledge, and strategies. Emphasis is placed on participation in and enjoyment of individual, dual, team, and lifetime activities.

Note: JCBOE passed a Extracurricular/Interscholastic Physical Education Policy in the Spring of 2023, which approves the following:

- Two seasons of an approved activity would allow students to earn 1 PE credit to be placed on their transcript. Students would not receive a grade for the class.
- At the conclusion of each season, the band director/Athletic Director will submit a roster of students who have successfully completed the season consisting of at least 60 contact hours to the high school counseling department. Students who have completed two seasons of an activity can be awarded their PE credit.
- Approved activities: Marching Band, Archery, Baseball, Cross Country, Cheerleading, Football, Golf, Show Choir, Softball, Soccer, Tennis, Track, and Wrestling

INDIVIDUAL DUAL SPORTS

Grade Level: 10-12 Credit: ½
Students will acquire knowledge related to the kinesiology and anatomical development of sports' specific activities.

Students will analyze their own athletic deficiencies and develop a program to enhance that area. Students will develop an understanding of the value and impact of daily exercise in order to apply that to their fitness for life.
Prerequisites and Other Notes: Successful completion of 2 semesters of Physical Education is required.

RECREATION SPORTS

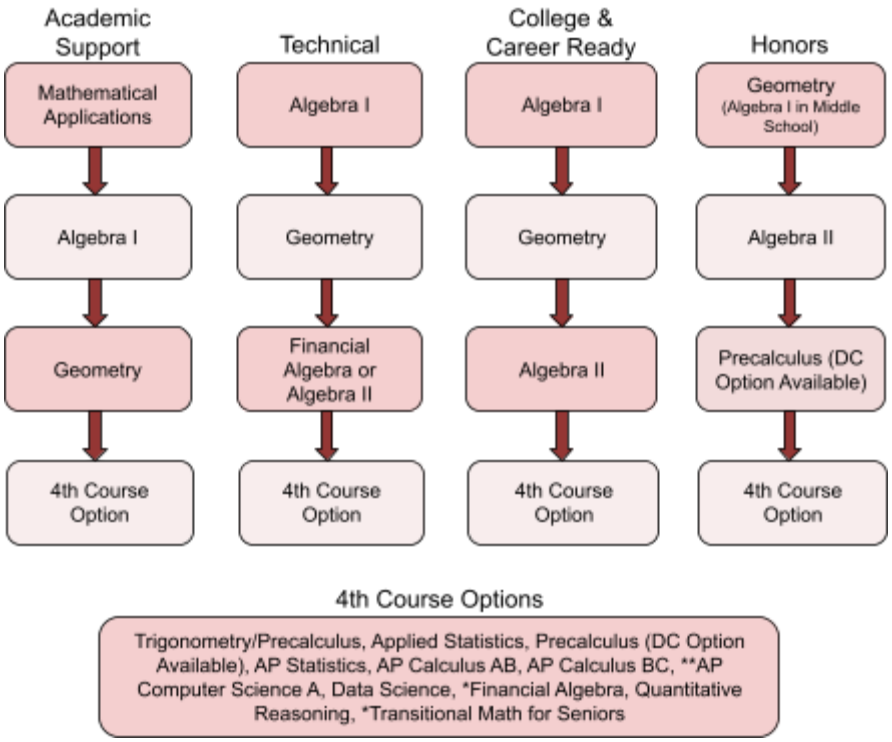
Grade Level: 9-12 Credit: ½

Recreation Sports provides experience and develops skills in more than one recreational sport or activity (such as tennis, badminton, croquet, Frisbee, bocce ball, fishing, hiking, and cycling).

MATHEMATICS

Ravenswood High School Mathematics Course Sequence

Note: A math class is required to be taken all 4 years of high school, per county policy
Math courses are taught with CCR standards.



***Financial Algebra & Transitional Math are not accepted by NCAA and some four-year colleges for admissions.**
Approved students may double up on math courses to further advance through the progression.

INTRODUCTION TO MATHEMATICAL APPLICATIONS

Grade Level: 9 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.

CCR ALGEBRA I

Grade Level: 9-12 Credit: 1

This is a first year algebra course in which you will learn to reason symbolically. The key content involves writing, solving and graphing linear and quadratic equations, including systems of two linear equations in two unknowns. Quadratic equations are solved by factoring, completing the square, graphically, or by application of the quadratic formula. The course also includes study of monomial and polynomial expressions, inequalities, exponents, functions, rational expressions, ratio, and proportion. Algebraic skills are applied in a wide variety of problems.

CCR GEOMETRY

Grade Level: 9-12 Credit: 1

This course is designed to help students gain an 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, and trapezoids), right triangles, and circles. Honors level will require more advanced problem-solving activities and enrichment.

Prerequisites and Other Notes: This course may be taken concurrently with Algebra I or Algebra II with teacher recommendation.

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 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: Algebra 1 and Geometry. This course is an approved course for the Promise scholarship. This course may not be accepted by the NCAA.

CCR ALGEBRA II

Grade Level: 9-12 Credit: 1

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. An honors level course will require more advanced problem-solving activities and enrichment.

Prerequisites and Other Notes: Completion of Algebra I and Geometry. This course may be taken concurrently with Geometry with teacher recommendation.

TRANSITION MATHEMATICS FOR SENIORS

Grade Level: 12 Credit: 1

This course is designed for those seniors that did not achieve College & Career Readiness benchmark scores on the standardized assessment during the junior year. This course covers objectives from three prior math courses: Algebra I, Geometry and Algebra II. Students taking this class will be introduced to the objectives that await them in college mathematics.

Prerequisites and Other Notes: This class is not accepted by NCAA and many four-year colleges for admissions.

DATA SCIENCE

Grade Level: 11-12 Credit: 1

Introduces students to the collection, organization, analysis, and modeling of real-world data using tools such as Google Sheets and basic programming. Students apply mathematical reasoning, statistics, and data visualization techniques to interpret information and communicate insights clearly. The course emphasizes practical applications, analytical thinking, and ethical use of data.

Prerequisites and Other Notes: Algebra II

CCR TRIGONOMETRY/PRE-CALCULUS (Dual Credit Option)

Grade Level: 10-12 Credit: 1

Offering to provide students a comprehensive study of mathematics in preparation for advanced college-level courses. Topics include coordinate geometry, polynomials, inequalities, functions, exponents and logarithms, trigonometry, vectors and determinants, sequence and series, and statistics and probability.

Prerequisites and Other Notes: Algebra II

Dual Credit Option: A dual credit option is available to students with a cumulative GPA of 2.5 or higher through WV State University. Students must also have a Math ACT score of 21+ or a 500+ Math score on the SAT. First semester college credit would be earned for Math 120 (3 credit hours) and Math 121 (4 credit hours) for second semester.

APPLIED STATISTICS

Grades: 11-12 Credit: 1

The course is designed with a two-fold purpose–to provide engaging everyday experiences in statistical reasoning and to support students in preparation for the SAT. The Applied Statistics course provides experiences in statistics designed to strengthen students' understanding of the statistical method of inquiry and statistical simulations. Students formulate statistical questions to be answered using data, design and implement a plan to collect the appropriate data, select appropriate graphical and numerical methods for data analysis, and interpret their results to make connections with the initial question. Students use multiple representations, technology, applications and modeling in problem-solving contexts. Applied Statistics is on the approved Promise Scholarship but not the NCAA course listing.

Prerequisites and Other Notes: Algebra I and Geometry

QUANTITATIVE REASONING (DUAL CREDIT OPTION)

Grade Level: 10-12 Credit: 1

Quantitative Reasoning prepares students to reason, model, and draw conclusions or make decisions with mathematical, statistical, and quantitative information. Students will compare, analyze, and synthesize multiple forms or sources of quantitative information.

Prerequisites and Other Notes: Algebra I. Students earn 3 hours of college credit for Math 119E.

AP CALCULUS AB

Grade Level: 11-12 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 one-year 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 Pre-calculus with a minimum grade of "B" is recommended. Teacher and counselor approval required. See *Advanced Placement Classes* at the beginning of the Program of Studies. Students will take the AB exam at the end of the year.

AP CALCULUS BC

Grade Level: 11-12 Credit: 1

This is considerably more extensive than Calculus AB; however, all topics in AB are included. Additional topics include infinite series and differential equations. In order to adequately prepare for the Calculus BC exam, the entire year must be devoted to an intense study of calculus. Both calculus courses require a commitment to a year of intensive college-level study.

Prerequisites and Other Notes: Calculus AB; completion of the Calculus AB exam with a minimum score of "3" is recommended. Teacher and counselor approval required. See *Advanced Placement Classes* at the beginning of the Program of Studies. Students will take the BC exam at the end of the year.

MATH LAB

Grade Level: 10-12 Credit: 1

Provides focused reinforcement and support for advanced courses such as AP Calculus, AP Computer Science A, AP Statistics, Precalculus, and College Algebra. It incorporates increased one-on-one interaction and targeted reinforcement of course curriculum to strengthen understanding and confidence in key concepts.

Prerequisites and Other Notes: Must be taken in conjunction with an advanced math course and receive teacher approval.

MUSIC

All Music classes count as a credit in Fine Arts.

AP MUSIC THEORY

Grade Level: 10-12 Credit: 1

This course is designed to challenge the most advanced music students. Emphasis is on the study of scales, key signatures, chords and chord structure, composition, and improvisation. Students will learn to use composition as a tool for composing, transposing, and transcribing music.

Prerequisites: Strong knowledge of music is required. Music teacher and counselor approval required. See *Advanced Placement Classes* at the beginning of the Program of Studies.

BAND I-IV

Grade Level: 9-12 Credit: 1

Students enrolled in band will participate in Marching Band at the beginning of the school year, which begins with summer practices in July and August and includes numerous performances in parades, football games, and band competitions. Following the conclusion of marching season, usually the beginning of November, the band shifts to Concert Band. The Concert Band performs a Christmas concert, ratings festival, and a spring concert. 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. Also, students are required to enroll for the entire year.

CHORUS I

Grade Level: 9 Credit: 1

Designed to teach the basic skills of vocal production and how the voice functions as well as vocal abuse and how to avoid it. Emphasis is placed on the development of the qualities of leadership, responsibility, service, strong character, and self-respect as well as respect for others. Students are required to perform a minimum of six concerts per year.

Note: Class may include lifting and/or physical activity.

CHORUS II

Grade Level: 10-12 Credit: 1

Offers instruction in the basic skills of vocal production as well as how the voice functions and basic music theory. Several styles of choral literature will be studied and performed. Emphasis will also be placed on the development of the qualities of leadership, responsibility, service, confidence, and self-respect. Student participation in a minimum of six major performances per year is required.

Note: Class may include lifting and/or physical activity.

CHORUS III

Grade Level: 11-12 Credit: 1

Offers instruction in the basic skills of vocal production as well as how the voice functions and basic music theory. Several styles of choral literature will be studied and performed. Emphasis will also be placed on the development of the qualities of leadership, responsibility, service, confidence, and self-respect. Student participation in a minimum of six major performances per year is required.

Note: Class may include lifting and/or physical activity.

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.

SHOW CHOIR I-IV (Rave Revue)

Grade Level: 9-12 Credit: 1

This class will be a performing group singing "show choir" music, but all styles of music literature will be studied and performed. 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. The Show Choir is expected to present approximately twenty performances per year; many after-school rehearsals are required.

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

CONTEMPORARY ENSEMBLE (Pop Rock Ensemble)

Grade Level: 9-12 Credit: ½

This is a course that provides opportunities to perform in non-traditional ensembles. It allows exploration and instruction in specific instruments or the creation of ensembles which can be characteristic of cultures, genres, and styles. The course is designed for both the advanced student musician as well as the beginner. Examples of X-Ensembles include, but are not limited to: rock band, bluegrass band, technology based ensembles, and world music and ethnic music ensembles.

Prerequisites and Other Notes: With instructor approval, students should have some ability to play guitar, bass, drums, or piano.

GUITAR / ADVANCED GUITAR

Grade Level: 9-12 Credit: ½

Emphasis will be placed on student acquisition of basic understanding and skills required in playing the guitar. Instruction will include treble clef notes and their corresponding strings, fifteen major chords, and various styles of fingerpicking. Students will also study the history of the guitar.

Prerequisites and Other Notes: With instructor approval, students may enroll for a second semester of advanced study.

INDIVIDUAL TECHNIQUE MUSIC (Introduction to Percussion)

Grade Level: 9-12 Credit: ½

This course is designed to provide a basic understanding of and the basic skills required in playing percussion. These skills include basic theory, rhythms, note values, note reading, and dynamics. Students will be taught to read music and play percussion instruments with proper musical techniques. Students with no musical knowledge or experience are encouraged to enroll in this course.

JAZZ ENSEMBLE (Instrumental Ensemble)

Grade Level: 9-12 Credit: ½

This is a course for advanced instrumentalists with an emphasis on Sax, Trumpet, Low Brass/Winds, Guitar, Bass Guitar, Piano or Percussion. Students enrolled in the course will do at least two major performances but may do many more. Students will need to be fluent readers or advanced aurally. You may only be admitted into the course after an audition. Jazz band may also have one additional rehearsal after school.

Prerequisites and Other Notes: Students must be able to play an instrument from the above list or one closely related and must have director approval after an audition.

MUSIC APPRECIATION/HISTORY (Dual Credit Option)

Grade Level: 9-12 Credit: 1

This course will discuss elements of music (rhythm, instrumentation, harmonies, melodies, composers, etc.) and the aspects of these elements throughout history from the medieval era to modern music. Fundamentals of music theory will also be explored.

Dual Credit Option: A dual credit college option may be available to students with a cumulative GPA of 2.5 or higher. First semester college credit would be earned for Music 107 Appreciation of Music.

MUSIC - INDEPENDENT STUDY

Grade Level: 9-12 Credit: ½

This course is designed for both the advanced student musician as well as the beginner. The advanced student can look forward to learning their particular instrument through the study of expanded scales, etudes, and appropriate musical literature. The advanced student will also have the opportunity to prepare auditions for Honor Bands, WV All-State Band, and Solo and Ensemble.

Prerequisites and Other Notes: Teacher and counselor approval required.

MUSIC TECHNOLOGY

Grade Level: 9-12 Credit: ½

This course will introduce the students to the world of electronic music and recording. Students will gain an understanding of recording live performances, digitally editing and the production of compact discs. Real-world applications of music technology are discussed, and topics covered include: sound systems and recording, podcast, film scoring, radio commercials and jingles. Software packages utilized include GarageBand, iMovie, Band-in-a Box, Finale, ProTools, Audacity and Academic Reason.

Prerequisites and Other Notes: This course is an alternative to a performing class and requires no previous musical knowledge or ability.

PIANO / ADVANCED PIANO

Grade Level: 9-12 Credit: ½

This course is designed to provide a basic understanding of and the basic skills required in playing the piano. These skills include basic theory, rhythms, note values, note reading, and dynamics. Many styles of music literature will be explored as well as the history of the piano and other keyboards. Synthesizers will be examined and used during the semester.

Prerequisites and Other Notes: With instructor approval, students may enroll for a second semester of advanced study.

SHOW BAND

Grade Level: 9-12 Credit: 1

The primary function of this ensemble is to provide instrumental accompaniment for the choral department. Admission to the class is by audition only. Students are required to perform a minimum of 10 concerts per year.

VOCAL TECHNIQUES (Vocal Ensemble Levels I-IV)

Grade Level: 9-12 Credit: 1

This class is designed to improve each student's singing voice and develop the ability to sing successfully. During their course of study, they will be taught the fundamentals of healthy vocal production which includes the following: 1) proper posture and breathing to sing, 2) tone production, 3) diction, 4) expression, and 5) gaining confidence. Individual vocal problems will be assessed and exercises will be given to help strengthen and improve the voice. Students will be singing together and also individually for class. This class may open doors to college scholarship opportunities.

SCIENCE

EARTH AND SPACE SCIENCE 9

Grade Level: 9-12 Credit: 1

The ninth grade Earth and Space Science (ESS) course builds upon science concepts from middle school by revealing the complexity of Earth's interacting systems, evaluating and using current data to explain Earth's place in the universe, and enabling students to relate Earth Science to many aspects of human society. Disciplinary core ideas, science and engineering practices, and crosscutting concepts are intertwined as students focus on five ESS content topics: Space Systems, History of Earth, Earth's Systems, Weather and Climate, and Human Sustainability.

EARTH AND SPACE SCIENCE 9 HONORS

Grade Level: 9-12 Credit: 1

Follows the same approach as Earth and Space Science but will delve more deeply into all areas of study with emphasis on analysis of information and utilize more hands-on activities and lab experience.

Prerequisites and Other Notes: Teacher and counselor approval required.

BIOLOGY

Grade Level: 10-12 Credit: 1

(9th with instructor approval)

A survey course consisting of basic genetics, botany of vascular plants, vertebrate zoology, microbiology, and cell functions. Lab work in all areas and dissection of vertebrate animals is included.

Prerequisites and Other Notes: Earth and Space Science 9

BIOLOGY HONORS (Dual Credit Option)

Grade Level: 10-12 Credit: 1

A survey course consisting of basic genetics, botany of vascular plants, vertebrate zoology, microbiology, and cell functions. Lab work in all areas and dissection of vertebrate animals included.

Prerequisites and Other Notes: Earth and Space Science 9 with teacher and counselor approval required.

Dual Credit Option: Students can obtain 4 hrs of college credit through WVSU as Biology 101 at the end of the 2nd semester.

AP BIOLOGY

Grade Level: 10-12 Credit: 1

This lecture/lab class follows the curriculum required by the Advanced Placement Committee. Students take the national Advanced Placement test upon completion of the class. A passing grade enables students to acquire college credit. Areas of study include molecules and cells, energy transformation, genetics and evolution, organisms and populations, plants, animals, and ecology.

Prerequisites and Other Notes: "C" or higher in previous Science coursework. Science teacher and counselor approval required. See *Advanced Placement Classes* at the beginning of the Programs of Study. Students must take the AP exam at the conclusion of the course.

BOTANY

Grade Level: 11-12 Credit: ½

Botany is a one semester class with extensive laboratory and fieldwork; students will study both taxonomy and anatomy/physiology.

Prerequisites and Other Notes: "C" or higher in previous Science coursework..

CHEMISTRY

Grade Level: 10-12 Credit: 1

A higher level science designed to prepare for college chemistry or general use. The emphasis is on general concepts and theoretical basis of chemistry, including quantitative concepts involving problem-solving skills. Students will be involved in laboratory procedures and observations.

Prerequisites and Other Notes: "C" or higher in Algebra I.

AP CHEMISTRY

Grade Level: 11-12 Credit: 1

The main objective of this class is to prepare students for the AP test in Chemistry. Similar to a rigorous freshman chemistry class in college, with less emphasis on lab time, some quality lab time will be offered with emphasis on problem-solving skills and interpretation of results. The majority of the time will be devoted to lectures alternating with problem-solving seminars and small group discussions.

Prerequisites and Other Notes: Chemistry, Algebra II and teacher and counselor approval required. AP exam required. See *Advanced Placement Classes* at the beginning of the Program of Studies. Students must take the AP Chemistry exam at the conclusion of the course. Lab experience will be gained after the AP Exam, with labs being performed every day through the end of school.

ENVIRONMENTAL SCIENCE

Grade Level: 10-12 Credit: 1

Environmental Science is an advanced, high school science course which builds on foundational knowledge of the chemical, physical, biological, geological processes and focuses on the natural world. Through an inquiry-based program of study, all students will demonstrate environmental literacy as they explore the economic, social, political, and ecological interdependence in urban and rural areas and on local and global scales.

AP ENVIRONMENTAL SCIENCE

Grade Level: 11-12 Credit: 1

Exposure to major topics concerning today's environmental implications. Discussion topics include basic ecology, population dynamics, pollution and waste management, and environmental quality. Field trips, guest speakers, independent projects, and lab work are included.

Prerequisites and Other Notes: "C" or higher in science. Science teacher and counselor approval required. See *Advanced Placement Classes* at the beginning of the Program of Studies. Students must take the AP exam at the conclusion of the course.

FORENSIC SCIENCE

Grade Level: 11-12 Credit: 1

Forensic Science emphasizes the scientific principles used in criminal investigation. Topics covered include human anatomy, genetics, microbiology, biochemistry and physics.

Prerequisites and Other Notes: Chemistry is recommended.

GENETICS

Grade Level: 11-12 Credit: ½

Genetics is a one semester class covering such topics as Mendelian genetics, molecular genetics, cell division, population genetics, speciation, genetic engineering, and evolution. Extensive lab work involved.

Prerequisites and Other Notes: "C" or higher in science and Algebra I.

HUMAN ANATOMY AND PHYSIOLOGY

Grade Level: 11-12 Credit: 1

Human Anatomy & Physiology is a science elective for juniors and seniors who have successfully completed Biology. Class work involves study of human body systems, their structure and function. Lab work includes some microscopic study of tissues and dissections of sheep brain and spinal cord, pig heart, and fetal pig.

Prerequisites and Other Notes: "C" or higher in science and teacher and counselor approval required.

HUMAN ANATOMY AND PHYSIOLOGY HONORS

Grade Level: 11-12 Credit: 1

Human Anatomy & Physiology is a science elective for juniors and seniors who have successfully completed Biology. Class work involves study of human body systems, their structure and function. Lab work includes some microscopic study of tissues and dissections of sheep brain and spinal cord, pig heart, and fetal pig. The Honors level course is developed for advanced students who will be pushed at an accelerated pace.

Prerequisites and Other Notes: "C" or higher in science and teacher and counselor approval required.

MICROBIOLOGY

Grade Level: 10-12 Credit: ½

Microbiology is a one semester class which surveys the various types of microorganisms and topics related to each. The curriculum includes viruses, transmission of various diseases, bacteria culture and related health problems. Extensive lab work required.

Prerequisites and Other Notes: "C" or higher in science

NATURAL RESOURCES MANAGEMENT

Grade Level: 10-12 Credit: 1

This course will provide students with skill sets in soil and water management, forestry and wildlife practices, land management at the local, state and federal levels. Emphasis will be given to environmental laws and government agency regulations.

Prerequisites and Other Notes: Introduction to Agriculture, Food & Natural Resources I OR teacher approval. This class will count as a 3rd science credit for high school graduation requirements. However, this class is not accepted by NCAA.

PHYSICAL SCIENCE

Grade Level: 10-12 Credit: 1

The Advanced Physical Science course develops an understanding of the core concepts from chemistry and physics: Structure and Properties of Matter; Chemical Reactions; Forces and Interactions; Energy; and Waves and Electromagnetic Radiation. The objectives in Advanced Physical Science allow high school students to explain more in-depth phenomena central not only to the physical sciences, but to life and earth and space sciences, as well.

PHYSICS

Grade Level: 10-12 Credit: 1

Survey of selected basic divisions of physics which includes conceptual and quantitative aspects of motion, energy and work, kinetic theory of matter, electricity, basic electronics, heat wave theory, light magnetism, atomic structure and nuclear reactions, and particle physics. Prospective students should be able to think and work independently, have good reading and comprehension skills in conceptualization and quantification.

Prerequisites and Other Notes: Trigonometry or science teacher approval

AP PHYSICS

Grade Level: 11-12 Credit: 1

The main objective of the AP Physics class is to prepare students for the Advanced Placement Test in Physics. Similar to a rigorous freshman physics class in college, with less emphasis on lab time, the quality lab time will be offered with emphasis on problem-solving skills and interpretation of results. Most of the time will be devoted to lectures, alternating with problem-solving seminars and small group discussions.

Prerequisites and Other Notes: Physics, Algebra II, & Trigonometry/Precalculus. Science teacher and counselor approval required. See *Advanced Placement Classes* at the beginning of the Program of Studies. Students must take the AP exam at the conclusion of the course.

ZOOLOGY

Grade Level: 11-12 Credit: 1

Zoology focuses on the animal kingdom. Topics covered include animal classification, comparative anatomy/physiology, animal ecology and relevance to agriculture, medicine, etc. Lab work includes working with both living and preserved specimens. Dissection labs are required throughout the course.

Prerequisites and Other Notes: "C" or higher in science.

SOCIAL STUDIES

WORLD STUDIES

Grade Level: 9-12 Credit: 1

This study of the world emphasizes the historical, 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.

Geography/map skills and critical thinking skills are emphasized.

WORLD STUDIES HONORS

Grade Level: 9 Credit: 1

Included in this class is the regular World Studies curriculum with increased emphasis on research and analysis, writing and critical thinking skills. It is designed to motivate high achievers to improve their level of understanding course content. Students are encouraged to determine the validity, credibility, and reliability of information based on comprehension, bias, accuracy, and frame of reference.

Prerequisites: Eighth grade teacher and counselor approval required.

AP WORLD

Grade Level: 9-12 Credit: 1

This course is intended to be the equivalent of a freshman college course, so the work will be challenging. The course covers the history of the world from 1200 C.E. to the present with an introduction unit on the period before covering around 1000-1200 C.E. The course emphasizes "patterns of change" and the connections between the various world cultures throughout the time. Strong reading and writing skills, as well as a strong work ethic and devotion to the material is needed. Since this course can earn students college credit, college level work is expected. Instructional methods used in this class will consist of facilitation of extensive reading and analysis, class lectures, group discussions, and oral and written presentations. Class attendance is a must because this course moves at a rapid pace, so students do not want to fall behind.

Prerequisites and Other Notes: Students earn their World Studies credit. Students must have earned at least a "B" in a previous honors social studies class or an "A" in a previous regular social studies class. Teacher and counselor approval required**.** See *Advanced Placement Classe*s at the beginning of the Programs of Study. Students must take the AP exam.

US STUDIES

Grade Level: 10-12 Credit: 1

This program of study follows the evolution of the Constitution as a living document and the role of participatory democracy in the development of a rapidly changing technological society. This study of the United States is an examination of the formative years from the colonial period to its transformation as a dominant political and economic influence in the world. Special emphasis is placed on how the challenges of settling expansive and widely-differing environments were met by a diverse population.

US STUDIES HONORS

Grade Level: 10 Credit: 1

This course includes a regular curriculum with an emphasis on in-depth examination of primary sources, research and response writing on content, and communication skills.

Prerequisites and Other Notes: Teacher and counselor approval required.

US STUDIES COMPREHENSIVE (DUAL CREDIT OPTION)

Grade Levels: 10-12 Credit: 1

Comprehensive United States History provides a comprehensive overview of the history of the United States, surveying the major events and turning points of U.S. history as it moves from prehistory and early America's cultural roots through modern times. As students examine each era of history, they will analyze primary sources and carefully research events to gain a clearer understanding of the factors that have shaped U.S. history. In early units, students will assess the foundations of U.S. democracy while examining crucial documents. In later units, students will examine the effects of territorial expansion, the Civil War, and the rise of industrialization. They will also assess the outcomes of economic trends and the connections between culture and government. As the course draws to a close, students will focus on the causes of cultural and political change in the modern age. Throughout the course, students will learn the importance of cultural diversity while examining history from different perspectives.

This course includes a broad series of lessons and activities that offer a variety of modalities for ultimate student engagement and content retention. Each unit contains a series of lessons that include introduction of content, demonstration of that content, and repeated opportunity to practice that content, along with a quiz per lesson, exam per unit, and final exams at the end of each semester. This course is not to be taken with AP US History or US Studies and Contemporary Studies because of similar content.

Dual Credit Option: Dual college credit is available for both semesters through WVSU with History 207 (1st semester) and History 208 (2nd semester).

CONTEMPORARY STUDIES

Grade Level: 11-12 Credit: 1

The focus of this course is an identification and study of the interaction of geographic, political, economic, and historical factors. Such factors provide students a framework to examine and appreciate the changing nature of societies and the increasing interdependence 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.

AP EUROPEAN HISTORY

Grade Level: 10-12 Credit: 1

This AP course is designed to provide students with an in-depth understanding of European History from 1300 to the present. It would include study of the major events in European history and notes on how they influenced American history. Students will be exposed to numerous primary source documents as well as learn to analyze and synthesize historical content information. This course moves at a rapid pace and students are expected to do outside classroom work; it requires advanced-level reading, writing, and analytical skills to be successful.

Prerequisites and Other Notes: Summer assignment is not required. Students must have at least a "B" in honors social studies or an "A" in regular social studies from the previous year; World History required prior to enrollment in AP European History and may not be taken concurrently. Teacher and counselor approval required.

AP US HISTORY

Grade Level: 11-12 Credit: 1

This course is designed to provide analytic skills and factual knowledge necessary to deal critically with problems and materials in American history. Students learn to assess historical materials, their relevance to a given interpretive problem, their reliability and importance, and to weigh the evidence and interpretations presented in historical scholarship. This course develops the skills necessary to arrive at conclusions on the basis of informed judgment and to present ideas clearly and persuasively. This AP course is taught in college format, including lectures, research and analysis, seminars, reports, and presentations, and objective as well as essay examinations.

Prerequisites and Other Notes: Students must have earned at least a "B" in an honors social studies class. Students should exhibit a high level of interest in United States history. All enrolled students must take the AP Exam. Teacher and counselor approval required.

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 Civics for the Next Generation. 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.

AP US GOVERNMENT AND POLITICS

Grade Level: 11-12 Credit: 1

Analytical course covering the following major content areas: Constitutional underpinnings of democracy; political beliefs and behaviors of individuals; political parties and interest groups; mechanisms that facilitate the communications 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: Students earn their Civics credit. Students must have earned at least a "B" in a previous honors social studies class or an "A" in a previous regular social studies class. Teacher and counselor approval required. Students should exhibit a high level of interest in government and have prior knowledge of the United States history and creation of the Constitution. This course may earn college credit and college level work is expected. Because high-level thinking and writing skills will be utilized, students must have strong reading and

writing skills to be successful. The course moves at a rapid pace and students are expected to do outside classroom work. See *Advanced Placement Classes* at the beginning of the Program of Studies

AP COMPARATIVE GOVERNMENT AND POLITICS

Grade Level: 11-12 Credit: 1

An introductory college-level course in comparative government and politics. The course uses a comparative approach to examine the political structures; policies; and political, economic, and social challenges of six selected countries: China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students cultivate their understanding of comparative government and politics through analysis of data and text-based sources as they explore topics like power and authority, legitimacy and stability, democratization, internal and external forces, and methods of political analysis. AP Comparative Government & Politics may serve as a social studies elective but may not substitute for US History or AP United States Government or Civics.

Prerequisites: A or B in previous social studies course; teacher and counselor approval required.

AP MACROECONOMICS

Grade Level: 10 -12 Credit: 1

This is an introductory college-level macroeconomics course. Students cultivate their understanding of the principles that apply to an economic system as a whole by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like economic measurements, markets, macroeconomic models, and macroeconomic policies. AP Macroeconomics may serve as a social studies elective but may not substitute for World History, US History, or AP US Government or Civics.

Prerequisites: A or B in previous social studies course; teacher and counselor approval required.

AP MICROECONOMICS

Grade Level: 10 -12 Credit: 1

An introductory college-level microeconomics course. Students cultivate their understanding of the principles that apply to the functions of individual economic decision-makers by using principles and models to describe economic situations and predict and explain outcomes with graphs, charts, and data as they explore concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency and public policy. AP Microeconomics may serve as a social studies elective but may not substitute for World History, US History, or AP US Government or Civics.

Prerequisites: A or B in previous social studies course; teacher and counselor approval required.

AMERICAN HISTORY THROUGH FILM

Grade Level: 9-12 Credit: ½

This elective history class provides students the opportunity to study early and modern American history through the medium of film. Students will explore both historical and contemporary topics related to the political, social, economic and racial history of the United States. Students will explore historical films' themes, strengths, weaknesses, and historical accuracy.

CONSPIRACIES IN US AND WORLD HISTORY

Grade Level: 10-12 Credit: ½

This course focuses on the ways people have constructed and used conspiracy theories to explain events in U.S. and World political, cultural, social, and scientific arenas. In this course we will explore conspiratorial thinking from various perspectives, examine when and how it has waxed and waned in History, and see if we can figure out why such thinking might thrive more at some times rather than others. We will construct a typology of conspiracies, examine the types of evidence used to support these "theories," engage in thinking, reading, and writing critically about them, and perhaps better understand their place in U.S. history and culture. 75% of the grades for this course will involve writing.

CURRENT EVENTS

Grade Level: 9-12 Credit: ½

This elective course will focus on current events, issues and trends in today's world. By reading articles and

viewing video clips on current news, students will be responsible for discussing, analyzing, and writing on these issues. Students are expected to be active participants in class by forming and expressing individual opinions, discussing and debating selected topics. The class will also focus on improving writing ability and improving vocabulary skills by responding to news articles and journal writing. Grading will be based upon participation, writing and debating.

ECONOMICS

Grade Level: 10 -12 Credit: ½

Understanding economics is essential so students will know that most decisions have economic consequences. As resources become scarce, as the economic environment changes, and as the economic impact of decisions becomes more immediate, students must know how to use economic analysis to solve the complex problems they face now and in the future. This elective course will emphasize the need to make sense of the array of economic facts, events, observations and issues in everyday life and the ability to make effective decisions about economic issues.

GEOGRAPHY

Grade Level: 9-12 Credit: ½

Geography education is essential for students to understand the values and roles of groups and individuals in a "global village" where economics, cultures, and environmental concerns are inextricably connected. This elective course will enable students to view the world from their perspective as United States citizens. The study of geography will contribute to the development of workplace skills and career choices.

MEDIEVAL AND EARLY MODERN EUROPE

Grade Level: 10-12 Credit: ½

This elective course is designed to provide students with a deeper understanding of the medieval and early modern world than what they receive in the World History survey course. The course will begin with the fall of the Roman Empire and progress through the Scientific Revolution and Enlightenment. Because of the nature of the course, students will be exposed to a variety of cultural and religious beliefs from the medieval world and should be prepared to learn and discuss them objectively. Students will read and analyze numerous primary sources on a variety of topics, which will require strong reading and writing skills. Some outside work will be required for successful completion of this course.

Prerequisites and Other Notes: Students must have successfully completed World History before enrolling in this course, which may not be taken concurrently with World History but may be taken concurrently with US History, Contemporary Studies, Civics, or AP European History.

PSYCHOLOGY (Dual Credit)

Grade Level: 10-12 Credit: ½

Psychology is the study of the mind and human behavior. Designed to provide a basic background in psychology, this class examines the development of behavior, heredity and environment, and interactive and collective behavior of human beings.

Dual Credit Option: Students earn college credit for PSYCH 151.

AP PSYCHOLOGY

Grade Level: 10-12 Credit: 1

The AP program offers a course and exam in psychology for students who wish to complete studies in high school equivalent to an introductory course in psychology. This AP Psychology course is designed to introduce students to the scientific study of the behavior and mental processes of human beings. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods of psychology.

Prerequisites and Other Notes: Students must have a recommendation from their previous social studies teacher. At least a "B" in honors social studies and an "A" in regular social studies is required. Teacher and counselor approval required**.** The course is potentially worth 3 college credits for Psych 101. The course moves at a rapid pace and students are expected to do outside classroom work. See *Advanced Placement Classes* at the beginning of the Program of Studies.

SOCIOLOGY (Dual Credit)

Grade Level: 10-12 Credit: ½

Sociology is the study of society, social institutions, and social relationships. Designed to offer a basic background in sociology, students will examine the development, structure, interaction, and behavior of collective groups.
Dual Credit Option: Students earn college credit for SOC 101.

US & THE WORLD 1945-PRESENT

Grade Level: 10-12 Credit: ½
Students will examine how domestic, political, social, and economic events are related to international affairs. Studies begin with the end of World War II and the commencement of the Cold War between the U.S. and the Soviet bloc nations plus the development of the U.S. foreign policy of Containment and Confrontation through the War on Terror. Emphasis will be placed on both domestic and world events in the given time span. Some of the focus of this elective course will be on: the Cold War, the Baby Boom Era, the impact of cultures from the 50s to present, the Civil Rights Movement, the Vietnam War and its impact/aftermath, the Korean War, the Gulf War, the War on Terror, and the Iraq War, etc. The course will allow students to demonstrate an understanding of the interdependency of the U.S. within world affairs. Studies conclude with students evaluating current world issues and suggesting alternative solutions.

WORLD HISTORY THROUGH FILM

Grade Level: 9-12 Credit: ½
This elective course will focus on world history from prehistory to present by viewing films related to historical themes. Students will view films in class. Activities and grades will be based on writing film reviews, answering questions on content, researching the events/epochs on which the film was based, and participating in class discussions.

WORLD RELIGIONS

Grade Level: 10-12 Credit: ½
Students will examine the world's five major religions, as well as other religions, to gain insight on how beliefs of a particular religion influence the behaviors of its adherents, culture, government and society at large. Because of the insight gained in this course students will become better informed global citizens and be prepared to enter the world of work, interact appropriately with people of various religions and develop a respect for individual religious beliefs. Students will participate in a variety of activities, including writing, speaking and research. This class meets the requirements of an elective course.
Prerequisites and Other Notes: World History to 1900 or AP World

WORLD WAR II THROUGH FILM

Grade Level: 9-12 Credit: ½
This elective history course covers the major historical problems of WWII through the medium of film. These include the events that led to the origin of the conflict, the rise of dictators, the principal military operations, the Holocaust, the development and use of atomic weapons and the origins of the Cold War. Students will explore the WW2 and Holocaust films' themes, strengths, weaknesses, and historical accuracy.

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 Individualized Education Program (IEP), which outlines annual goals, short-term learning objectives, and related services, is developed by the IEP Committee. This committee is composed of teachers, parents, the student (if appropriate), and administrators.
Programs Currently Available:
Exceptional Gifted, Learning Disabilities, Behavior Disorders, Mentally Impaired, 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: 9-12 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.

TECHNOLOGY EDUCATION

ELECTRICAL TRADES I

Grade Level: 11-12

This course introduces the student to the knowledge base and technical skills of the Electrical Trades industry. Electrical Trades 1 begins with instruction 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. Students will then begin developing skill sets related to the fundamentals of electricity such as Orientation to the Electrical Trade, and Electrical Safety.

Prerequisites and Other Notes: This course is part of the Advanced Manufacturing program at WVU-Parkersburg. Students must be enrolled in the program to enroll in the course.

Dual Credit: 3 hours college credit in ELEC 110 Introduction to Electrical Technology

ELECTRICAL TRADES III

Grade Level: 12

Electrical Trades III will continue to build student skill sets in areas of Alternating Current; Motors: Theory and Application; Electric Lighting; and Conduit Bending. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts

Prerequisites and Other Notes: This course is part of the Advanced Manufacturing program at WVU-Parkersburg. Students must be enrolled in the program to enroll in the course.

Dual Credit: 3 hours college credit in ELEC 112 Intermediate AC/DC Applications & Electrical Symbols

PRODUCTION & DESIGN CONCEPTS

Grade Level: 11-12

Production & Design Concepts immerses students in the core principles of production and design. Focused on cultivating employability skills, fostering a 6S culture, and nurturing teamwork, this course is a dynamic blend of problem-solving and critical thinking. From mastering basic production line controls to understanding conveyor design, quality assurance, and safety protocols, students gain a holistic view of the industrial landscape.

Prerequisites and Other Notes: This course is part of the Advanced Manufacturing program at WVU-Parkersburg. Students must be enrolled in the program to enroll in the course.

Dual Credit: 3 hours college credit in IM 126 Introduction to Maintenance Mechanics

HOME/AUTO 360

Grade Level: 9-12 Credit: ½

Want to learn how to fix a drippy sink? How about how to jump a dead car battery? As a future homeowner, knowing how to make costly repairs and improvements oneself may save you big bucks. Painting, plumbing, carpentry, and electrical work will be covered in this course. Also, students will learn the basics about automobile engines and the maintenance and repairs of vehicles.

FUNDAMENTALS OF DRAFTING I

Grade Level: 9-12 Credit: ½

An introduction to mechanical drawing as it relates to engineering. Students develop an understanding of terminology, common abbreviations, and lettering. They develop basic skills in the following areas: geometrical constructions, multi-views, dimensioning, pictorial views, sectioning, and working drawings. Students learn to draw problems from all or some of the topics mentioned above.

FUNDAMENTALS OF DRAFTING II

Grade Level: 9-12 Credit: ½

Students have an opportunity to improve the skills acquired in Fundamentals of Drafting. They will improve their understanding of the basic skills in the areas of thread representation, developments and intersections, topography and working and technical illustrated drawings. Students will learn to draw problems from all or parts of the topics mentioned above.

Prerequisites and Other Notes: Successful completion of Fundamentals of Drafting

FOUNDATIONS IN ENGINEERING

Grade Level: 9-12 Credit: 1

This course will introduce students to the basic principles of materials, mechanisms, structures, electricity, electronic control, and graphic communication and how they can be integrated and used to solve a variety of complex technical challenges. Students work in engineering teams to develop work process skills, such as researching, writing, organizing, modeling, calculating, and communicating with others.

Prerequisites and Other Notes:

MECHANICAL SERVICES SYSTEMS

Grade Level: 9-12 Credit: ½

This course will introduce students to the basic principles of mechanisms, electricity/electronics and hydraulics involved in the support, maintenance, design and installation of all types of mechanical and electrical devices. Students will explore a variety of techniques used in the mechanical services industry, and apply this knowledge in a variety of hands-on activities. Activities will include drafting/blueprint reading, hydraulics, electronics, wiring, metal fabrication, arc welding, gas welding, mig welding, plasma cutting and machine rebuilding.

ADVANCED MECHANICAL SERVICES SYSTEMS

Grade Level: 9-12 Credit: ½

Advanced Mechanical Services Systems is open to all students who have completed Mechanical Services Systems. This course will build upon basic concepts learned in Level I by taking an in-depth look at principles used when servicing and maintaining industrial equipment. Activities will include advanced drafting and print reading, electrical wiring, metal fabrication, welding, and machine maintenance and rebuilding.

Prerequisites and Other Notes: Successful completion of Mechanical Services Systems.

MILLWORK & CABINETMAKING I

Grade Level: 9-12 Credit: 1

This project-based course introduces the student to the knowledge and technical skills of the Millwork & Cabinet Making industry. The student will complete modules in basic safety, construction math, hand & power tools, construction drawings, basic rigging, basic communication skills, basic employability and materials handling. The student may achieve NCCER National Safety Certification with the successful completion of Millwork and Cabinet Making classes.

Prerequisites and Other Notes: Fine Arts credit

MILLWORK & CABINETMAKING II

Grade Level: 10-12 Credit: 1

This project-based course continues to build upon student skill sets used with shop tools in the areas of cabinetmaking, joints, cabinet assembly, sanding and finishing. Students will utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. The student may achieve NCCER National Safety Certification with the successful completion of Millwork and Cabinet Making classes.

Prerequisites and Other Notes: Millwork & Cabinetmaking I

MILLWORK & CABINETMAKING III

Grade Level: 11-12 Credit: 1

This course continues to build skill sets in hands-on project-based activities such as applying plastic laminate to a countertop, wood-turning and cabinet door and drawer construction. The student may achieve NCCER National Safety Certification with the successful completion of Millwork and Cabinet Making classes.

Prerequisites and Other Notes: Millwork & Cabinetmaking II

MILLWORK & CABINETMAKING IV

Grade Level: 12 Credit: 1

This course continues basic skill sets in areas of cabinet door, shelf and drawer hardware. Mass production cabinetmaking is also explored. The student may achieve NCCER National Safety Certification with the successful completion of Millwork & Cabinet Making classes.

Prerequisites and Other Notes: Millwork & Cabinetmaking III

ARCHIVED COURSES

ART

CRAFTS-JEWELRY

Grade Level: 9-12 Credit: ½

Jewelry is a three-dimensional design that helps develop an understanding for the art elements. Students will have the opportunity to create jewelry pieces using unusual everyday items (i.e., magazines) as well as regular materials often used in jewelry making like clay and beads. Students will gain knowledge through the experiences of jewelry making areas.

CAREER EDUCATION / OTHER

COLLEGE 101

Grade Level: 11-12 Credit: ½

This course is designed to provide students with an orientation to college services and activities. Objectives cover learning and test-taking skills, using traditional and electronic resources, problem solving, people skills, self-management skills, and career/life planning strategies.

FRESHMAN ACADEMY

Grade Level: 9 Credit: 1

Freshman Academy is designed to aid 9th graders in their transition from middle school to high school.
The class will focus on the following skills: planning, organization, goal-setting, and study/test-taking skills. There will be an emphasis on appropriate behavior with regard to the increasing use of technology in today's world. Students will collaborate and explore the proper ways to integrate technology into their education and life beyond high school.

HEAVY EQUIPMENT MACHINE OPERATIONS-PRE APPRENTICESHIP PATHWAY

Grade Level: 11-12 Credit: 4

Jackson County Schools works in conjunction with Stride K-12 and the International Union of Operating Engineers (IUOE) Local 132. This pathway prepares students for a career in equipment operations for industries like construction and machining. Students will explore the many facets of the construction world to find their interest, develop the mathematical skills necessary for the construction field, learn about construction equipment and its various functions, and learn what it takes to maintain heavy machinery for construction. These courses are on the Jackson County Schools Virtual School Program. Simulations are scheduled at Roane/Jackson Technical Center and hands-on activities are held at the IUOE Local 132 in Medina.

LEADERSHIP

Grade Level: 9-12 Credit: ½

This course provides opportunities to study, practice and develop group and individual leadership and organizational skills. These skills include decision-making, problem-solving techniques, communication skills, leadership roles, human relation skills and understanding the need for civic responsibility. Students enrolled in the course will apply these skills in dealing with peers, school administration and the community. The course involves a hands-on, active learning approach to leadership. This course is available to all high school students and can be customized to meet the needs of a student council, but is also adaptable to a broader student population. The major topics include: Developing Knowledge of Self and Others, The Structure of Leadership, Organization Managerial Skills, Developing Leadership Skills and Practices, Practicing Leadership through Service, Goal Setting, Group Processes

and Communication.

COMPUTER/BUSINESS EDUCATION

DESKTOP PUBLISHING

Grade Level: 9-12 Credit: 1

This course is designed to develop student understanding and skills in such areas as 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. Students 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 will be provided with real world learning opportunities and instruction.

Prerequisites and other Notes: Students may not enroll in the second semester without successfully completing the first semester.

DIGITAL IMAGING/MULTIMEDIA I

Grade Level: 9-12 Credit: 1

This course is designed to develop student knowledge and skills in such areas as 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. Students will be using multiple resources to complete this course. Students will be provided with real world learning opportunities and instruction.

Prerequisites and other Notes: Students may not enroll in the second semester without successfully completing the first semester.

DIGITAL IMAGING/MULTIMEDIA II

Grade Level: 10-12 Credit: 1

This course is designed to develop student understanding and skills in areas such 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. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students will be provided with real world learning opportunities and instruction.

Prerequisites and Other Notes: Students must have a "C" or better in Digital Imaging/Multimedia I in order to enroll in this course. Students may not enroll in the second semester without successfully completing the first semester.

MARKETING APPLICATIONS

Grade Level: 10-12 Credit: 1

This course is designed to develop student understanding and skills in such areas as the various marketing functions. Students coordinate channel management with other marketing activities, discuss the nature of marketing plans, generate product ideas, coordinate activities in the promotional mix and demonstrate specialized sales processes and techniques. Economic and financial concepts are also stressed throughout the course. Current technology will be used to acquire information and to complete the projects. Formal reflection is an on-going component of the course along with four projects. 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.

Prerequisites and Other Notes: Marketing Principles

MARKETING PRINCIPLES

Grade Level: 9-12 Credit: 1

This course is designed to develop student understanding and skills in such areas as channel management, marketing-information management, market planning, pricing, product/service management, promotion and selling. Through the use of projects, students acquire an understanding and appreciation of marketing activities. Current technology will be used to acquire information and to complete the projects. Formal reflection is an on-going component of the 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.

PLTW COMPUTER SCIENCE ESSENTIALS

Grade Level: 9-12 Credit: 1

PLTW Computer Science Essentials (CSE) is designed to be a full-year course implemented in the 9th grade. This course is an excellent entry point for new high school computer science (CS) learners. And students who have prior CS experiences will find ample opportunity to expand upon those experiences in this course. All students who take PLTW CSE will have many opportunities for creative expression and exploration in topics of personal interest, whether it be through app development or connecting computing with the physical world. PLTW CSE introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text-based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the *Python*® programming language.

PLTW AP COMPUTER SCIENCE PRINCIPLES

Grade Level: 10-12 Credit: 1

PLTW Computer Science Principles is an introductory college-level course for non-computer science majors. Students explore and become inspired by career paths that utilize computing, discover tools that foster creativity and collaboration, and use what they've learned to tackle challenges like app development and simulation. This course is endorsed by the College Board, giving students the option to take the AP Computer Science Principles exam for college credit.

Prerequisites and Other Notes: Grade of B or better in Algebra I. Students must take the AP exam at the conclusion of the course. See *Advanced Placement Classes* at the beginning of the Program of Studies. Teacher and counselor approval required.

WEB PAGE PUBLISHING I

Grade Level: 9-12 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 will also be working on the school website. Students will utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

Prerequisites and other Notes: Students who successfully complete Algebra I with a B or better may take this class their ninth grade year. Students are encouraged to become active members of the FBLA student organization.

ENGLISH

LITERATURE AND FILM

Grade Level: 9-12 Credit: ½

This course explores the complex interplay between film and literature. Selected novels, short stories and plays are analyzed in relation to film versions of the same works in order to gain an understanding of the possibilities and problems involved in the transposition to film. Films that are not inspired by a work of literature will also be examined for their inherent literary elements.

Prerequisites and Other Notes: Some films require parent permission for viewing. Due to the nature of the course, attendance is very important. If a student misses a screening, it will be his/her responsibility to obtain a copy of the film and view it independently.

MATH

AP STATISTICS (Available through WV Virtual School)

Grade Level: 11-12 Credit: 1

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students will take the AP Statistics exam in May.

Prerequisites and Other Notes: This course can be taken concurrently with Pre-Calculus or AP Calculus. Teacher and counselor approval required. See *Advanced Placement Classes* at the beginning of the Program of Studies.

SCIENCE

ASTRONOMY AND COSMOLOGY

Grade Level: 10-12 Credit: 1

Astronomy and Cosmology is designed as a survey course covering the current body of knowledge concerning our solar system, galaxy and the universe. Students enrolled in this course will be required to attend 7-10 evening lab sessions during which astronomical observations will be made. Field trips to local observatories and/or Green Bank may also be required. Students taking this course may use it for a lab science requirement for graduation or to prepare for earth/space science classes at the college level. Students should expect calculations involving algebraic and trigonometric functions.

Prerequisites and Other Notes: Must have completed or be taken concurrently with Geometry.

PLTW PRINCIPLES OF ENGINEERING (Science Elective)

Grade Level: 10-12 Credit: 1

Students explore a broad range of engineering topics including mechanisms, strength of structure and materials, and automation, and then they apply what they know to take on challenges like designing a self-powered car.

Prerequisites: Algebra I

TECHNOLOGY EDUCATION

TRANSPORTATION SYSTEMS

Grade Level: 9-12 Credit: ½

Transportation systems will introduce the student to efficient use of tools and resources to relocate people and goods. Topics include: small engine theory and repair, model bridges, NASA projects, model rocketry, model airplane design, model dragster research and development, and other related topics.

ADVANCED TRANSPORTATION SYSTEMS

Grade Level: 9-12 Credit: ½

Advanced Transportation Systems is open to all students who have completed Transportation Systems. Students will build upon concepts learned in Transportation Systems in the design and construction of higher level projects. Topics will include air, land, space and marine transportation with students designing and producing working models in each area.

Prerequisites and Other Notes: Successful completion of Transportation Systems

MANUFACTURING SYSTEMS

Grade Level: 9-12 Credit: ½

Manufacturing systems will provide the student with many opportunities to study the basic elements of

manufacturing. Students will explore a variety of materials and processing techniques common to manufacturing and apply this knowledge to the development and operation of a student manufacturing enterprise. Students will design and produce various wood and metal products.

ADVANCED MANUFACTURING SYSTEMS

Grade Level: 9-12 Credit: ½

Advanced Manufacturing Systems is open to all students who have completed Manufacturing Systems. This course will build upon basic concepts learned in Manufacturing Systems by taking an in-depth look at processing techniques used in manufacturing. Students will improve their skills by designing and producing more complex wood and metal products.

Prerequisites and Other Notes: Successful completion of Manufacturing Systems

DRAFTING ARCHITECTURE I

Grade Level: 9-12 Credit: ½

Students are given the opportunity to learn the skills necessary to develop an understanding of the different styles of architecture. They learn the terminology and symbols and study details relating to floor plans, elevations, foundations, perspectives, plot plans, electrical plans, and plumbing plans. Students learn to draw a set of house plans that will consist of all or part of the details mentioned above.

DRAFTING ARCHITECTURE II

Grade Level: 9-12 Credit: ½

Students are given the opportunity to improve skills acquired in Drafting Architecture. They will be able to develop a set of residential house plans. They will learn more about design and model building.

Prerequisites and Other Notes: Successful completion of Drafting Architecture

COMMUNICATION SYSTEMS

Grade Level: 9-12 Credit: ½

Communication Systems introduces the student to the variety of ways people use tools and resources to communicate. This course is based on the modular technology system, where students rotate to a new module area every ten days. Our current modules are as follows: audio production, video production, laser robotics, computer animation, drafting, electronics, electronic systems, auto cad, desktop publishing, and internet web page design.

ADVANCED COMMUNICATION SYSTEMS

Grade Level: 9-12 Credit: ½

Advanced Communication Systems is open to all students who have completed Communications Systems. Students will build upon concepts learned to experience additional 10-day communication modules. This course will take a more in-depth look into the ways people use tools and resources to communicate.

Prerequisites and Other Notes: Successful completion of Communication Systems

CONSTRUCTION SYSTEMS

Grade Level: 9-12 Credit: ½

Construction Systems will introduce the students to the principles of the construction industry. Topics will include designing a set of house plans and follow up with a scale model of the design. Also, there will be a study of basic carpentry skills, block-laying, wall framing, basic engineering principles, and testing of student's solutions to problems encountered when designing models.

ADVANCED CONSTRUCTION SYSTEMS

Grade Level: 9-12 Credit: ½

Advanced Construction Systems is open to all students who have completed Construction Systems. Students will build upon basic concepts learned in Level I by studying advanced construction techniques. These techniques will be utilized in the design and construction of larger more detailed projects. Emphasis will be in residential and heavy construction projects.

Prerequisites and Other Notes: Successful completion of Construction Systems

TRANSPORTATION SYSTEMS

Grade Level: 9-12 Credit: ½

Transportation systems will introduce the student to efficient use of tools and resources to relocate people and goods. Topics include: small engine theory and repair, model bridges, NASA projects, model rocketry, model airplane design, model dragster research and development, and other related topics.

ADVANCED TRANSPORTATION SYSTEMS

Grade Level: 9-12 Credit: ½

Advanced Transportation Systems is open to all students who have completed Transportation Systems. Students will build upon concepts learned in Transportation Systems in the design and construction of higher level projects. Topics will include air, land, space and marine transportation with students designing and producing working models in each area.

Prerequisites and Other Notes: Successful completion of Transportation Systems

West Virginia Department of Education
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.

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

Students should consult with their chosen post-secondary educational/training institutions when choosing course options and electives.

CLUSTERS	CONCENTRATIONS
Agriculture, Food and Natural Resources	Agribusiness Systems Natural Resources Management Plant Systems Power, Structural and Technical Systems
Architecture and Construction	Carpentry Electrical Technician HVAC Technician
*Arts, A.V. Technology and Communication	Performing Arts LOCAL Visual Arts LOCAL
Business Management and Administration	Business Enterprise Career & Work Skills Training
Education and Training	Grow Your Own Early Childhood Assistant Teacher Education LOCAL
Finance	4-Year College Prep only
Government and Public Administration	4-Year College Prep only
Health Science	Pre-Nursing-Therapeutic Services
Hospitality and Tourism	ProStart Restaurant Management
Human Services	Pre-Cosmetology
Information Technology	Computer Systems Repair Technology Coding, AI and Game Design
Law, Public Safety, Correction and Security	Law & Public Safety
Manufacturing	Millwork & Cabinetmaking Welding
Marketing	4-Year College Prep only
Science, Technology, Engineering and Mathematics	4-Year College Prep only
Transportation, Distribution and Logistics	Automotive Technology Collision Repair Technology

*Indicates clusters that contain only non-CTE concentrations, if any.

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 to take two years of the same foreign language and a fourth lab science to meet possible college admission requirements.

Agriculture, Food and Natural Resources Cluster

Concentrations			
Agribusiness Systems AG0120	Natural Resources Management AG0170	Plant Systems AG0210	Power, Structural and Technical Systems AG0110
0101 Intro to Ag I 0102 Science of Ag 0134 SAE **Select One Below:** 0112 Fund of Ag Mech 0212 Horticulture 0200 Nat Res Mgmt	0101 Intro to Ag I 0200 Nat Res Mgmt 0134 SAE 0190 Fish/Wildlife	0101 Intro to Ag I 0212 Horticulture 0134 SAE **Select One Below:** 0214 Greenhouse 0213 Floriculture 0220 Fruit & Veg Production	0101 Intro to Ag I 0112 Fund of Ag Mech 0134 SAE **Select One Below:** 0113 Ag Structures 0114 Ag Equipment & Repair 2002 Ag Small Engine Repair
4-Year College Prep			
(2) Foreign Languages 4th Science Concentration Elective			

Architecture & Construction Cluster

Concentrations			
Carpentry AR1820	Electrical Technician AR 1760	HVAC Technician AR1600	4-Year College Prep
RJTC: 1842 Carpentry I 1843 Carpentry II 1844 Carpentry III 1845 Carpentry IV	**RJTC:** 1756 Electrical Trades I 1757 Electrical Trades II 1758 Electrical Trades III 1759 Electrical Trades IV	**RJTC:** 1752 HVAC I 1753 HVAC II 1754 HVAC III 1755 HVAC IV	(2) Foreign Languages 4th Science Concentration Elective

Arts, A/V Technology & Communications Cluster

Concentrations		
*Performing Arts Local	*Visual Arts Local	4-Year College Prep
Choir I, II, III or Instrumental Music I, II, III or Theater I, II, III Additional Fine Arts' Elective	Art I Art II Art III Additional Fine Arts' Elective	(2) Foreign Languages 4th Science Concentration Elective

Business Management & Administration Cluster

Concentrations		
Business Enterprise BM1935	Career & Work Skills BM0510	4-Year College Prep
1411 Business Computer Applications I 1417 Business Law & Ethics 1439 Business and Marketing Essentials 1449 Office Procedures	RHS & **RJTC**: 0511 Career and Work Skills Training I 0512 Career and Work Skills Training II 0513 CWST Work Experience I 0514 CWST Work Experience II	(2) Foreign Languages 4th Science Concentration Elective

Education & Training Cluster

Concentrations			
Grow Your Own	Early Childhood Assistant Teacher Ed 1320	Education Local	4-Year College Prep
RJTC: 1306 Introduction to Education and the Classroom 1308 Introduction to Educational Psychology 1307 Introduction to Child Development 1309 Introduction to Social Emotional and Behavioral Wellness Dual College Credit available through Glenville State University	**RJTC:** 1321 Early Learning Child Development 1322 Early Learning Special Needs Inclusion 1323 Early Learning Language & Literacy 1324 Early Learning Numeracy	Required: Business Computer Applications I Select Three Below: Community Service Office Management Psychology/Sociology	(2) Foreign Languages 4th Science Concentration Elective

Finance Cluster

Concentration
4-Year College Prep
(2) Foreign Languages 4th Science Concentration Elective

Government & Public Administration Cluster

Concentration
4-Year College Prep
(2) Foreign Languages 4th Science Concentration Elective

Health Science Cluster

Concentrations	
Pre-Nursing Therapeutic Services HE0723	4-Year College Prep
RJTC: 0711 Foundations of Health Science 0715 Advanced Principles of Health Science 0789 Clinical Specialty I 0790 Clinical Specialty II	(2) Foreign Languages 4th Science Concentration Elective

Hospitality & Tourism Cluster

Concentrations	
ProStart Restaurant Management HO1010	4-Year College Prep
RJTC: 1013 Restaurant and Culinary Foundations 1014 Restaurant Management Essentials 1019 Advanced Principles in Food Production 1020 The Restaurant Professional	(2) Foreign Languages 4th Science Concentration Elective

Human Services Cluster

Concentrations	
Pre-Cosmetology (Hair Stylist) HU 2311	4-Year College Prep
RJTC: 1734 Cosmetology Professional I 1735 Cosmetology Professional II 1737 Barbering & Cosmetology Foundations 1736 Cosmetology Professional Advanced	(2) Foreign Languages 4th Science Concentration Elective

Information Technology Cluster

Concentrations		
Computer Systems Repair Tech IT1680	Coding, AI and Game Design IT1470	4-Year College Prep
RJTC: 1664 A+ Essentials 1665 A+ Practical Applications 1696 Security 1694 Networking Essentials	**RJTC:** 1431 Digital Imaging/Multimedia 1432 Digital Imaging/Multimedia II 1456 Coding, App & Game Design I 1457 Coding, App and Game Design II	(2) Foreign Languages 4th Science Concentration Elective

Law, Public Safety, Corrections & Security Cluster

Concentrations	
Law & Public Safety LA1020	4-Year College Prep
RJTC: 1225 Foundations of Public Safety Leadership 1226 Ethical Issues of Public Safety 1039 Practical Applications of Public Safety Leadership 1035 Seminar in Law Enforcement	(2) Foreign Languages 4th Science Concentration Elective

Manufacturing Cluster

Concentrations		
*Millwork & Cabinet Making MA2120	Welding MA1980	4-Year College Prep
2126 Millwork & Cabinetmaking I 2127 Millwork & Cabinetmaking II 2128 Millwork & Cabinetmaking III 2129 Millwork & Cabinetmaking IV	**RJTC:** 1862 Welding I 1863 Welding II 1864 Welding III 1865 Welding IV	(2) Foreign Languages 4th Science Concentration Elective

Marketing Cluster

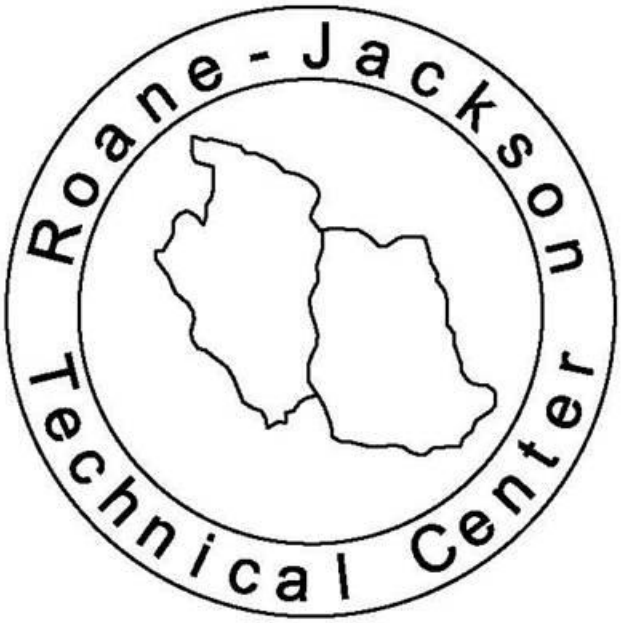
Concentration
4-Year College Prep
(2) Foreign Languages 4th Science Concentration Elective

Science, Technology, Engineering & Mathematics Cluster

Concentration
4-Year College Prep
(2) Foreign Languages 4th Science Concentration Elective

Transportation, Distribution & Logistics Cluster

Concentrations		
Automotive Technology TR 1620	Collision Repair Technology TR1670	4-Year College Prep
RJTC: 1631 Automotive Technology MLR-1 1623 Automotive Technology MLR-2 1625 Automotive Technology MLR-3 1637 Automotive Technology MLR-4	**RJTC:** 1671 Fundamentals of Collision Repair Technology 1675 Non-Structural Analysis and Damage Repair 1677 Structural Analysis and Damage Repair 1679 Surface Preparation and Refinishing	(2) Foreign Languages 4th Science Concentration Elective



Roane-Jackson Technical Center

Programs of Study

2026-2027

Mr. Ben Cummings, Director

bpcummin@k12.wv.us

Mr. Todd Layhew, Assistant Director

tlayhew@k12.wv.us

rjtcwv.com

Phone: 304-372-7335

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Roane-Jackson Technical Center

Mission Statement

Roane-Jackson Technical Center is dedicated to improving students' academic and workplace skills while preparing them for postsecondary education and employment in the global community.

Discrimination Policy

Roane-Jackson Technical Center does not discriminate on the basis of age, gender, race, color, religion, creed, disability, veteran's status, sexual orientation, and national origin in the employment of personnel or in the administration of any of its education programs and activities.

COURSE OFFERINGS 2026-2027

ROANE-JACKSON TECHNICAL CENTER

PROGRAM & PROGRAM NUMBER

Automotive Technology TR1620

Career and Work Skills Training (CO-OP) BM0510

Carpentry AR1820

Coding, AI and Game Design IT1470

Collision Repair Technology TR1670

Computer Systems Repair Technology IT1680

Early Childhood Classroom Assistant Teacher (ECCAT) ED1320

Electrical Technician AR1760

Grow Your Own

HVAC Technician AR1600

Law and Public Safety LA1020

Pre-Cosmetology HU2311

Pre-Nursing (Therapeutic Services) HE0723

ProStart Restaurant Management HO1010

Welding MA1980

FULL-TIME ADULT PROGRAMS

Cosmetology

Practical Nursing

Commercial Driving

EMBEDDED CREDITS

Transitional Mathematics for Seniors – Embedded Credit will be in the following programs for the 2026-2027 school year.

AR1820 Carpentry – all first year students

MA1980 Welding – all first year students

AR1760 Electrical Technician – must complete the four core classes over a two-year period to receive the embedded credit Transitional Math for Seniors

AR 1600 HVAC Technician - must complete the four core classes over a two-year period to receive the embedded credit Transitional Math for Seniors

Transitional English for Seniors- Embedded credit will be in the following programs for the 2026-2027 school year.

HE0723 Pre-Nursing (Therapeutic Services) – all enrolled students

AUTOMOTIVE TECHNOLOGY **CONCENTRATION CODE: TR1620**

Grade Level: 10-12

Credits: 8

Length: 2 Years

Teacher Name: Todd Wilkinson

Instructional Hours: 1080

First Year Student AM

Fall

1623 Automotive Technology MLR-2-**CORE**

1631 Automotive Technology MLR-1-**CORE**

Spring

1625 Automotive Technology MLR-3**-CORE**

1637 Automotive Technology MLR-4**-CORE**

Second Year Student PM

Fall

1629 Automotive Technology – AST-1

1633 Automotive Technology –AST -2

Spring

1635 Automotive Technology-AST-3

1627 Automotive Technology-AST-4

Industry Credential: Governor's Workforce Readiness Certificate, First Aid/CPR, Snap-On Scanner Certification, Todays Class, ASE.

Concentration Description:

The Automotive Technology Program of Study focuses on careers that will build a knowledge base and technical skills in all aspects of the automotive industry. Skill set standards for Career Preparation Skills, Safety, Leadership Development and Customer and Personal Service have been integrated throughout the Program of Study. Student skills sets will be acquired for Automotive Maintenance and Light Repair in the areas of Automotive Service Consultant, Tire Repair and Replacement, Maintenance Services, Electrical System Diagnosis and Repair, Engine and Engine Performance Diagnosis and Repair, Heating and Air Conditioning Diagnosis and Repair, Brake System Diagnosis and Repair, Suspension and Steering Diagnosis and Repair, and Driveline Diagnosis and Repair. Students will have the opportunity to acquire hours towards industry certification and be exposed to skills to develop positive work ethics.

Core Course Descriptions:

1631 Automotive Technology MLR-1 - This course introduces the student to the knowledge base and technical skills as they relate to the field of Automotive Technology. In the Automotive Technology MLR-1 class, areas of study include Automotive Service Consultant, Career Opportunities and Practices, Shop and Personal Safety, Tools and Equipment, Preparing Vehicle for Service, Electrical-General Electrical System Diagnosis, Electrical-Diagnosis and Service of Batteries, and Engines-Lubrication and Cooling Systems Diagnosis and Repair.

1623 Automotive Technology MLR-2 - Students continue their exposure to skills sets in areas such as Steering and Suspension-Diagnosis and Repair of Wheels and Tires, Brakes-Diagnosis and Repair of Hydraulic Systems, Brakes-Diagnosis and Repair of Drum Brake Systems, Brakes-Diagnosis and Repair of Disc Brake Systems, Brakes-Diagnosis and Repair of Power Assist

Units, Brakes-Diagnosis and Repair of Miscellaneous Automotive Items, Brakes-Diagnosis and Repair of Anti-lock Brake Systems and Steering and Suspension-Diagnosis of Steering & Suspension Systems.

1625 Automotive Technology MLR-3 - This course builds student skill sets in the areas of Electrical-Demonstrate Starting System Diagnosis and Repair, Electrical-Demonstrate Charging System Diagnosis and Repair; Electrical-Demonstrate Lighting System Diagnosis and Repair, Electrical-Demonstrate Accessories System Diagnosis and Repair, Engines, General Engines, Engines-Diagnosis and Repair of Cylinder Head and Valve Train, and Engine Performance-General Engine Diagnosis.

1637 Automotive Technology MLR-4 - This course completes the Program of Study with skills sets in the areas of Engine Performance-Computerized Engine Controls; Engine Performance-Fuel, Air Induction, and Exhaust Systems Diagnosis and Repair; Engine Performance-Emissions Control Systems Diagnosis and Repair; Automatic Transmission and Transaxle-Diagnosis Maintenance, and Adjustment; Manual Drivetrain and Axles-Diagnosis, Maintenance, and Adjustment; and Heating and Air Conditioning-Diagnosis, Maintenance, and Adjustment.

CAREER AND WORK SKILLS TRAINING **CONCENTRATION CODE: BM0510**

Also known as CWST or Co-Op (AM & PM) **Grade Level:** 12

PLEASE NOTE: *This program is for SENIORS who wish to be employed in a paid or unpaid work experience as part of the educational day during their last year in high school. Students may be employed at a location only after the CWST Coordinator has submitted employer names to the Director and the Administrative Council has given approval. Students must have successfully completed a one-year program offered by the Center or be enrolled in the second year of a two-year program.*

Credits: 4 **Length:** 1 Year

Teacher Name: Melissa Wilkinson **Instructional Hours:** 540

Fall

0511 Career and Work Skills Training I - **CORE**

0513 CWST Work Experience I - **CORE**

Spring

0512 Career and Work Skills Training II - **CORE**

0514 CWST Work Experience II - **CORE**

Industry Credential: Governor's Workforce Readiness Certificate

Concentration Description:

The Career and Work Skills Training (CWST) concentration focuses on preparing students who need training in an occupational area for which there is no specific program available OR who have received instruction in an occupational field and want to enhance that experience through Cooperative Education. The curriculum focuses on the generic job-seeking and job-keeping skills necessary for success in any career, including the skills identified in the report from the Secretary's

Commission on Achieving Necessary Skills (SCANS). Specific job skills are rarely taught in the classroom, rather, they are taught at the work site, using the Cooperative Education method. A typical program would enroll students with a wide range of occupational interests and place them at a variety of work sites.

Core Course Descriptions:

0511 Career and Work Skills Training I - This course is designed as the first course to develop student understanding and skills essential for job success. CWST or Co-Op students will be released from school to go to work and receive credit through employment in related occupations. Students must work a minimum of 12 hours per week to obtain school credit. Times of employment will vary according to job assignment. Students will be responsible for maintaining documents required by the class throughout the term. Grading will be based upon a combination of employer responses, coordinator's observations, and accurate maintenance of CWST forms. Students will be enrolled in and required to attend a CWST seminar class during the term. Students must be approved by the appropriate instructor and must have completed the RJTC class related to employment and be employed prior to the beginning of the term enrolled.

0512 Career and Work Skills Training II - This course is designed as the second course to develop student understanding and skills that are essential for job success.

0513 CWST Work Experience I - 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 the school and employers, is a combination of study in school with employment in the appropriate field.

0514 CWST Work Experience II - 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 the school and employers, is a combination of study in school with employment in the appropriate field.

CARPENTRY **CONCENTRATION CODE: AR1820**

Grade Level: 10-12

Credits: 8

Length: 2 Years

Teacher Name: Jason Jett

Instructional Hours: 1080

First Year Student AM Only

Fall

1842 Carpentry I - **CORE**

1843 Carpentry II - **CORE**

Spring

1844 Carpentry III - **CORE**

1845 Carpentry IV - **CORE**

Second Year Student PM Only

Fall

1820 Applications in Commercial Construction

1821 Concrete Finishing

Spring

1829 Masonry and Plumbing

1803 Basic Plumbing and Electrical

Industry Credential: Governor's Workforce Readiness Certificate, OSHA 10, First Aid/CPR

Concentration Description:

The Carpentry concentration focuses on careers that will build a knowledge base and technical skills in all aspects of the carpentry industry. Learners will be exposed to a broad range of construction careers and foundation knowledge including basic safety; plan reading, use of tools and equipment, basic rigging, and how to employ positive work ethics in their careers. Students will be involved in various projects that include housing construction, cabinetry, floor covering, roofing, plumbing, and electrical work. Instruction will also include masonry, foundations and footing, jointing, form construction, and brick and block laying. Individuals successfully completing this program will have learned the basic skills required for entry into the building trades.

Core Course Descriptions:

1842 Carpentry I - This course introduces the student to the knowledge base and technical skills of the carpentry 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. Students will then begin developing skill sets related to the fundamentals of Carpentry such as: Orientation to the Trade, Building Materials, Fasteners and Adhesives, and Hand and Power Tools.

1843 Carpentry II - Students will continue to build skill sets in areas such as Reading Plans and Elevations; Floor Systems, Wall and Ceiling Framing; Roof Framing; Introduction to Concrete, Reinforcing Materials, and Forms; Windows and Exterior Doors; Basic Stair Layout.

1844 Carpentry III - This course will continue to build student skill sets in the areas of Commercial Drawings; Roofing Applications; Thermal and Moisture Protection; and Exterior Finishing.

1845 Carpentry IV - This course will continue to build student skill sets in the areas of Cold-Formed Steel Framing; Drywall Installation; Drywall Finishing; Doors and Door Hardware; Suspended Ceilings; Window, Door, Floor, and Ceiling Trim; Cabinet Installation; and Cabinet Fabrication.

CODING, AI AND GAME DESIGN **CONCENTRATION CODE: IT1470**

(PM ONLY) **Grade Level:** 10-12

Credits: 4 **Length:** 1 Year

Teacher Name: Alan Chapman **Instructional Hours:** 540

Fall

1431 Digital Imaging/Multimedia I - **CORE**

2816 Basic Programming - **CORE**

Spring

1456 Coding, App and Game Design I - **CORE**

1457 Coding, App and Game Design II - **CORE**

Industry Credential: Governor's Workforce Readiness Certificate, Unity, First Aid/CPR

Concentration Description:

The Coding, AI and Game Design Concentration provides knowledge and skills necessary for a career in coding, game and app design, web page publishing, computer programming, software development, and AI (artificial intelligence) industries. Students receive training in both the graphic design and technical programming elements of the industry.

Core Course Descriptions:

1431 Digital Imaging/Multimedia I - This course is designed to develop student knowledge and skills in such areas as producing images, operating a digital camera, using imaging software, using drawing software, creating simple animations and manipulating video images.

2816 Basic Programming – This course serves as an introduction to the fundamental concepts and principles of programming for beginners. Students will learn the basics of algorithmic thinking, problem-solving techniques, and programming fundamentals using a high-level programming language. Through hands-on exercises and coding projects, participants will develop essential programming skills and gain confidence in writing and understanding code. By the end of the course, students will be equipped with a solid foundation in programming that will prepare them for further study in computer science or related fields.

1456 Coding, App and Game Design I - This course is designed to develop student knowledge and skills in programming and designing game and app ideas, paper prototyping, and other planning techniques. Using various design platforms, programming languages, and drawing and animation techniques, students create an interactive demonstration of the games and apps.

1457 Coding, App and Game Design II - This course is designed to develop student knowledge and skills in developing apps and games using more advanced coding and graphic design, including both 2-D and 3-D elements.

COLLISION REPAIR TECHNOLOGY **CONCENTRATION CODE: TR1670**

Grade Level: 10-12

Credits: 8

Length: 2 Years

Teacher Name: Dana Hager

Instructional Hours: 1080

First Year Student AM

Fall

1671 Fundamentals of Collision Repair Technology - **CORE**

1675 Non-Structural Analysis and Damage Repair - **CORE**

Spring

1677 Structural Analysis and Damage Repair - **CORE**

1679 Surface Preparation and Refinishing - **CORE**

Second Year Student PM

Fall

1672 Detailing and Interior Parts - Elective

1674 Refinishing Techniques - Elective

Spring

1676 Custom Finishing Processes - Elective

1673 Mechanical and Electrical Components - Elective

Industry Credential: Governor's Workforce Readiness Certificate, First Aid/ CPR, Chief Laser Lock

Concentration Description:

A "hands-on" shop setting exposes the student to many different types of auto and truck repairs to include shop safety, damage estimating, frame repair, auto body repair and refinishing instruction. Students work on the job with hand power tools, spray equipment, and other related equipment. Students will have an opportunity to repair an auto from beginning to brightly refinished end.

Core Course Descriptions:

1671 Fundamentals of Collision Repair - This course introduces the student to the knowledge base and technical skills as they relate to the field of Collision Repair Technology. In the Fundamentals of Collision Repair Technology, class areas of study include career opportunities and practices, integrated academics, knowledge of tools and equipment, panel straightening techniques, and introduction to vehicle preparation.

1675 Non-Structural Analysis and Damage Repair - Non-Structural Analysis and Damage Repair will continue to build student skill sets in non-structural analysis and repair of metal and composite parts. Students will utilize integrated academics, problem-solving techniques, and manipulative skills while completing lab activities to develop an understanding of course concepts.

1677 Structural Analysis and Damage Repair - Structural Analysis and Damage Repair will continue to build student skill sets in frame and unibody type vehicles using welding techniques, measuring equipment, and frame machines.

1679 Surface Preparation and Refinishing - Surface Preparation and Refinishing will continue to build student skill sets in preparing a surface for refinishing. Areas of study include inspecting, cleaning, and operating spraying equipment; detailing a vehicle; and diagnosing finish defects.

COMPUTER SYSTEMS REPAIR TECHNOLOGY **CONCENTRATION CODE: IT1680**

(AM ONLY) **Grade Level:** 10-12

Credits: 4 **Length:** 1 Year

Teacher WVEIS Name: Alan Chapman

Fall

1664 CompTIA+ Core 1 - **CORE**

1665 CompTIA+ Core 2 - **CORE**

Spring

1696 Security+ - **CORE**

1694 Networking+- **CORE**

Industry Credential: CompTIA, Governor's Workforce Readiness Certificate, First Aid/CPR

Concentration Description:

The Computer Systems Repair Technology concentration validates foundation-level knowledge and skills necessary for a career in PC support. The CompTIA+ and Network+ certifications are both international and vendor-neutral and prove competence in areas such as installation, preventative maintenance, networking, security and troubleshooting. This one-year IT course is a computer-based curriculum built around stringent educational and industry endorsed objectives. Students successfully completing this program of study develop valuable technical experience, are better prepared for the workforce, and experience success by passing industry endorsed certification exams. Courses are aligned with CompTIA standards. Emphasis will be placed on personal and professional ethics and students will explore a variety of career opportunities.

Core Course Descriptions:

1664 CompTIA+ Core 1 (220-901 Certification) - This course covers PC hardware and peripherals, mobile device hardware, networking and troubleshooting hardware and network connectivity issues.

1665 CompTIA+ Core 2 (220-902 Certification) - This course covers installing and configuring operating systems including Windows, iOS, Android, Apple OS X and Linux. It also addresses security, the fundamentals of cloud computing and operational procedures.

1696 Security+ - This course introduces the students to the knowledge base and technical skills related to working with network security. Areas of study include network security, compliance and operation security, threats, and vulnerabilities, application, data and host security, access control and identity management, and cryptography.

1694 Networking+ - This course introduces the student to the knowledge base and technical skills related to networking. Areas of study include media and topologies, protocols and standards, network implementation and network support.

EARLY CHILDHOOD CLASSROOM ASSISTANT TEACHER (ECCAT) CONCENTRATION CODE: ED1320

(PM ONLY)

Grade Level: 10-12

Credits: 4

Length: 1 Year

Teacher Name: Melissa Layhew

Instructional Hours: 540

Fall

1321 Early Learning Child Development

1322 Early Learning Special Needs Inclusion

Spring

1323 Early Learning Language & Literacy

1324 Early Learning Numeracy

Industry Credential: First Aid/CPR, Governor's Workforce Readiness Certificate, Eligible to take the statewide test to become eligible for employment as a school aide.

Concentration Description:

The Early Childhood Classroom Assistant Teacher (ECCAT) concentration is designed for those students who are interested in working in pre-school or elementary school environments as a school aide. Students will learn how to use foundational knowledge of subject matter to prepare effective instruction. Time will also be spent learning to identify the needed resources to carry-out an instructional plan. Clinical experiences will be spent working with young children in a school environment.

Core Course Descriptions:

Not presently available from WVDE.

ELECTRICAL TECHNICIAN **CONCENTRATION CODE: AR1760**

Grade Level: 10-12

Credits: 8

Length: 2 Years

Teacher Name: TBD

Instructional Hours: 1080

First Year Student AM

Fall

1756 Electrical Trades I - **CORE**

1769 RESIDENTIAL WIRING

Spring

1757 Electrical Trades II – **CORE**

1766 Integrated Electrical Lab

Second Year Student PM

Fall

1758 Electrical Trades III - **CORE**

1767 National Electric Code

Spring

1759 Electrical Trades IV - **CORE**

1771 Rotating Devices and Control Circuitry

Industry Credential: OSHA 10, Students may take the licensing exam available through the WV State Fire Marshal's Office.

Concentration Description:

Electricians are tradespeople specializing in electrical wiring of buildings, stationary machines, and related equipment. Electricians may be employed in the installation of new electrical components or the maintenance and repair of existing electrical infrastructure. They may also specialize in wiring ships, airplanes, and other mobile platforms, as well as data and cable.

Students will have the opportunity to gain knowledge and develop technical skills in all aspects of the electrical industry. Students may earn the WV Journeyman Electrician License.

Course Descriptions:

1756 Electrical Trades I

This course introduces the student to the knowledge base and technical skills of the Electrical Trades industry. Electrical Trades I begin with the NCCER Core curriculum which is a prerequisite to all Level I completions. 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. Students will then begin developing skill sets related to the fundamentals of Electricity such as Orientation to the Electrical Trade; and Electrical Safety. 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, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1757 Electrical Trades II

Electrical Trades II will continue to build student skill sets in areas such as Introduction to Electrical Circuits; Electrical Theory; Introduction to the National Electrical Code ®; Device Boxes; Hand Bending; Raceways and Fittings; Conductors and Cables; Basic Electrical Construction Drawings; Residential Electrical Services; and Electrical Test Equipment. 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, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1758 Electrical Trades III

Electrical Trades III will continue to build student skill sets in areas of Alternating Current; Motors: Theory and Application; Electric Lighting; and Conduit Bending. 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, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1759 Electrical Trades IV

Electrical Trades IV will continue to build student skill sets in areas of Pull and Junction Boxes; Conductor Installations; Cable Tray; Conductor Terminations and Splices; Grounding and Bonding; Circuit Breakers and Fuses; and Control Systems and Fundamental Concepts. 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, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1769 Residential Wiring

This course introduces the student to the knowledge base and technical skills for Residential Wiring. Areas of study include wiring data, service entrance equipment, luminary and receptacle outlets, protective devices, appliance and special circuits and low-voltage systems. Emphasis will be placed on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities. Students will utilize problem-solving techniques and participate in laboratory activities to develop an understanding of course concepts.

1767 National Electric Code

This course introduces the student to the knowledge base and technical skills for the NEC. Areas of study include demonstrating skills in the use of the NEC, applying calculations to assure NEC standards are met. Emphasis will be placed on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities. Students will utilize problem-solving techniques and participate in laboratory activities to develop an understanding of course concepts.

1766 Integrated Electrical Lab

This course introduces the student to the knowledge base and technical skills for concepts in the Integrated Electrical Lab. Areas of study include electrical installation project, rough-in procedure, test and check circuits and termination and trim-out. Emphasis will be placed on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities. 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 course concepts.

1771 Rotating Devices and Control Circuitry

This course introduces the student to the knowledge base and technical skills for concepts in the Rotating Devices and Control Circuitry. Areas of study include control circuitry and motor controls. Emphasis will be placed on career exploration, job seeking skills, and personal and professional ethics. Safety instruction is integrated into all activities. 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 course concepts.

Grow Your Own

(AM ONLY) **Grade Level:** 10-12

Credits: 4

Teacher Name: Melissa Layhew

Grow Your Own does not count as a WVDE approved CTE Concentration

Fall

1306/EDUC 203 – Foundations of Education (RJTC dual enrollment with GSU) 3 credits

1310/EDSP 220 – Introduction to Educating Exceptional and Culturally Diverse Students (RJTC dual enrollment with GSU) 3 credits

Spring

1308/EDUC 205 Educational Psychology (RJTC dual enrollment with GSU) 3 credits

1311/CSCI 267 Computer Skills for Education(RJTC dual enrollment with GSU) 3 credits

Other Eligible Dual Enrollment Courses

*****EACH COUNTY PARTICIPATING MUST DETERMINE THE APPROPRIATE DUAL CREDIT TO BE AWARDED BY THE RESPECTIVE HOME HIGH SCHOOL.*****

ENGL 101 – Critical Reading and Writing I (3 Credits)

ENGL 102 – Critical Reading and Writing II (3 Credits)

Math 115 – College Algebra (3 Credits)

At least one of the following courses:

History 207 – US History to 1877 (3 Credits)

History 208 – US History since 1877 (3 Credits)

SCNC 103 – Contemporary Biology (4 Credits)

The remaining credits should be selected from the following courses:

Math 108 – Intro to College Math 93 Credits); prerequisite for Math 115 for students who do not have Math scores at or above 21 [ACT] or 530 [SAT].

ENGL 203 – Survey of English Lit I (3 Credits)

ENGL 204 – Survey of English Lit II (3 Credits)

ENGL 205 – Survey of American Lit I (3 Credits)

ENGL 206 - Survey of American Lit (3 Credits)

CART 101 – Intro to Public Speaking (3 Credits)

POSC 203 – American National Government (3 Credits)

Important Information!

The Grow Your Own Pathway is designed to address West Virginia's critical teacher shortage. The Grow Your Own Pathway to Teaching provides promising high school students a career path to pursue a career in education.

How it Works

Students who wish to participate in the Grow Your Own will begin taking courses while in high school toward a career in education. Courses may be face-to-face or online dual credit courses. The GYO program is comprised of 24-30 credit hours, giving students who wish to become teachers the

opportunity to earn one year of college credit prior to graduating high school at no cost to them. Tuition and books are totally free to enrolled students.

In collaboration with the West Virginia Higher Education Policy Commission and Glenville State University, students participating in GYO pathway will receive all required textbooks at no cost to them.

As participants in the GYO pathway students will receive the following benefits:

- Free Tuition
- Free Text books
- Free membership to Study.com
- Free membership to Educators Rising
- Free Praxis Vouchers

HVAC TECHNICIAN **CONCENTRATION CODE: AR1600**

Grade Level: 10-12

Credits: 8

Length: 2 Years

Teacher Name: TBD

Instructional Hours: 1080

First Year Student AM

Fall

1752 HVAC I - **CORE**

1602 Air Conditioning Applications

Spring

1753 HVAC II – **CORE**

1607 Heating Systems

Second Year Student PM

Fall

1754 HVAC III - **CORE**

1608 Commercial Air Conditioning

Spring

1755 HVAC IV - **CORE**

1603 Domestic Refrigeration

Industry Credential: Students will have the opportunity to gain knowledge and develop technical skills in all aspects of the HVAC industry. Students may earn the OSHA 10 Construction, EPA Refrigerant, NATE Certificate.

Concentration Description:

HVAC Technicians are skilled tradesmen

in charge of installing, inspecting and repairing various air quality systems. Their main duties include locating and diagnosing maintenance problems on equipment, conducting warranty services, and quickly performing emergency repairs.

Course Descriptions:

1752 HVAC I

This course introduces the student to the knowledge base and technical skills of the HVAC industry. HVAC 1 begins with instruction 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. Students will then begin developing skill sets related to the fundamentals of HVAC such as Introduction to HVAC, and Trade Mathematics. Teachers should provide each student with real world learning, opportunities, and instruction. Students are encouraged to become active members of the student organization, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1753 HVAC II

This course will continue to build student skill sets in areas such as Copper and Plastic Piping Practices; Soldering and Brazing; Ferrous Metal Piping Practices; Basic Electricity; Introduction to Cooling; Introduction to Heating; and Air Distribution Systems. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1754 HVAC III

This course will continue to build student skill sets in areas of Commercial Airside Systems; Chimneys, Vents, and Flues; Introduction to the Hydronic Systems; Air Quality Equipment; Leak Detection, Evacuation, Recovery, and Charging; Alternating Current; Basic Electronics; and Introduction to Control Circuit Troubleshooting. S Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1755 HVAC IV

This course will continue to build student skill sets in the areas of troubleshooting Gas Heating; troubleshooting Cooling; Heat Pumps; Basic Installation and Maintenance Practices; Sheet Metal Duct Systems; and Fiberglass and Flexible Duct Systems. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, WV SkillsUSA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

1602 Air Conditioning Applications

This course introduces the student to the knowledge base and technical skills for concepts in Air Conditioning Applications. Areas of study include mathematical concepts, technical writing skills, technical reading comprehension, career opportunities, personal and equipment safety, fabrication operations and basic compression refrigeration. Emphasis will be placed on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities.

1603 Domestic Refrigeration

This course introduces the student to the knowledge base and technical skills for concepts in Domestic Refrigeration. Areas of study include mathematical concepts, technical writing skills, technical reading comprehension, career opportunities and personal and equipment safety. Emphasis will be placed on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities.

1607 Heating Systems

This course introduces the student to the knowledge base and technical skills for concepts in Heating Systems. Areas of study include mathematical concepts, technical writing skills, technical reading comprehension, career opportunities and personal and equipment safety. Emphasis will be placed on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities.

1608 Commercial Air Conditioning

This course introduces the student to the knowledge base and technical skills for all courses in the Commercial Air Conditioning Program of Study. Areas of study include mathematical concepts, technical writing skills, technical reading comprehension, career opportunities, personal and

equipment safety, fabrication operations and compression refrigeration. Emphasis will be placed on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities.

LAW AND PUBLIC SAFETY **CONCENTRATION CODE: LA1020**

(AM & PM) **Grade Level:** 10-12

Credits: 4 **Length:** 1 Year

Teacher Name: Julia Bowen **Instructional Hours:** 540

Fall

1225 Foundations of Public Safety Leadership – **CORE** (RJTC dual enrollment with WVU-P)

1226 Ethical Practices of Public Safety – **CORE** (RJTC dual enrollment with WVU-P)

Spring

1039 Practical Applications of Public Safety Leadership – **CORE** (RJTC dual enrollment with WVU-P)

1035 Seminar in Law Enforcement – **CORE** (RJTC dual enrollment with WVU-P)

Industry Credential: Governor's Workforce Readiness Certificate, First Aid/ CPR

Concentration Description:

The Law and Public Safety concentration focuses on methods used by public safety leaders to protect a democratic society. The history and organization of the Criminal Justice System and issues relating to the administration and practice of Law and Public Safety in a culturally diverse society are explored. This program's specialization is the law enforcement component of the Public Safety Curriculum. Field placement requires instructor approval and may take into consideration academic performance, attendance, and classroom behavior.

Core Course Descriptions:

1225 Fundamentals of Public Safety Leadership - This course is designed to present foundational principles of Public Safety Leadership including: how public safety leaders protect a democratic society; public policy issues such as crime and justice; history, organization and

functions of components of public safety including the criminal justice system; and the issues and challenges relating to the administration of justice in a culturally diverse society.

1226 Ethical Practices of Public Safety Leadership - This course is designed to examine the philosophical issues and applications of the objectives and processes of Public Safety Leadership including: Constitutional limitations; accountability; civil liability; criminal investigation; criminal procedure; and forensics. By examining societal and psychological stressors that contribute to behavior, students will examine a variety of 10 serious offenses and apply concepts of profiling, behavioral analysis and threat assessment within an ethical paradigm. Students will analyze and critique the system of dealing with convicted persons and the long term implications of corrections policy. The principles and procedures used in criminal investigation will be introduced. Procedures for implementing criminal law such as the Incorporation Doctrine, search and seizure, warrant requirements, arrest, the right to counsel, interrogation, identification procedures, entrapment, cruel and unusual punishment, etc. will be discussed.

1039 Practical Applications of Public Safety - This course is designed to give students the opportunity to connect theory and practice by interacting with Public Safety professionals. Students will study various requirements for employability in the Public Safety field including ethics, teamwork, and professionalism. Students may participate in activities associated with Public Safety agencies (such as county and local law enforcement, county judicial offices, correctional facilities, training academies, social services, etc.) for hands-on or work-based experiences. Preparation includes construction of a portfolio that can be utilized in obtaining employment upon completion of the student's program.

1035 Seminar in Law Enforcement - This course is designed to provide students with fundamental principles of the law enforcement field such as the history of policing in the US, the characteristics of law enforcement agencies and types of police activities including criminal investigation. Current issues and trends in law enforcement will be investigated. Aspects of criminal investigation such as evidence collection, fingerprinting, latent dusting, interviewing and report writing will be presented.

PRE-COSMETOLOGY **CONCENTRATION CODE: HU2310**

Grade Level: 10-12

Credits: 8

Length: 2 Years

Teacher Name: Christy Shouldis

Instructional Hours: 1080

First Year Student: AM Only (Enroll only Juniors)

Fall

1734 Cosmetology Professional I - **CORE**

1735 Cosmetology Professional II - **CORE**

Spring

1737 Barbers and Cosmetology Foundations - **CORE**

1736 Cosmetology Professional Advanced - **CORE**

Second Year Student: PM Only

Fall

1738 Cosmetology Science I

1740 Cosmetology Science II

Spring

1730 Cosmetology Chemical I

1750 Cosmetology Chemical II

Industry Credential: CPR/First Aid. **High school students CANNOT complete the required 1,800 hours to become a licensed Cosmetologist during their Junior and Senior years due to the 180-day school calendar. If high school students want to complete the Cosmetology program in order to obtain their licensure, they must return to RJTC as an adult student. To obtain licensure, students must pass the licensing exam administered by the West Virginia Board of Barbers and Cosmetologists after completing the 1800-hour program as an adult student.**

Concentration Description:

The Pre-Cosmetology Program of Study focuses on the knowledge, skills and principles of the shampooing, cutting, coloring and styling of men and women's hair; discussion of scalp and hair issues; and the cutting and styling of wigs. Teachers will provide each student with real- world learning opportunities and instruction.

Core Course Descriptions:

1734 Cosmetology Professional I - This course provides knowledge and skills for working with hair and scalp, scalp treatment, shampoo and rinse, facial shapes, and hair styles as delineated by the WV Board of Barbers and Cosmetologists. Students also gain the professional or skilled knowledge and skills necessary in beginning a career in a hairstyling profession.

1735 Cosmetology Professional II - This course will provide knowledge and skills for working with wigs, hair additions, braiding and extensions as delineated by the WV Board of Barbers and Cosmetologists.

1736 Cosmetology Professional Advanced - This course will provide the knowledge and skills for haircutting as delineated by the WV Board of Barbers and Cosmetologists. The program area provides individuals with the principles, practices, and concepts involved in haircutting.

1737 Barbers and Cosmetology Foundations - This course develops knowledge and understanding of fundamental theory and practices of the Cosmetology profession as delineated by the WV Board of Barbers and Cosmetologists such as: effective communication, human relations, government organizations, professional organizations and development, first aid and general infection control.

PRE-NURSING (THERAPEUTIC SERVICES) CONCENTRATION CODE: HE0723

AM - Jackson County Students 20 slots

PM- Roane County 20 slots **Grade Level:** 10-12

Credits: 4 **Length:** 1 Year

Teacher Name: Judy Williams **Instructional Hours:** 540

Fall

0711 Foundations of Health Science (RJTC dual enrollment with WVU-P)

0715 Advanced Principles of Health Science (RJTC dual enrollment with WVU-P)

Spring

0789 Clinical Specialty I

0790 Clinical Specialty II

Industry Credential: CNA, Governor's Workforce Readiness Certificate, First Aid/CPR, WV CNA

Concentration Description:

The Therapeutic Services Concentration allows the student to explore careers focused primarily on changing the health status of the patient over time. Health professionals in this concentration work directly with patients; they may provide care, treatment, counseling and health education information. The program is a one-year diversified program that prepares students to work in various health care settings, including but not limited to hospitals, nursing homes, therapeutics, laboratories, radiology, dental and vision offices, information and mortuary services.

There are four courses offered in sequential order in this diversified program. Students need to maintain an 80% to progress to the second semester. Students should be prepared to take the exam for their West Virginia Certified Nursing Assistant (CNA) license at the conclusion of the program. Roane-Jackson Technical Center has made arrangements to pay for all student CNA licensure exams.

A major emphasis of the class is placed on core information unique to all health care careers, regardless of setting. Among these items are: medical terminology, safety, prevention and control of infection, anatomy and physiology, law and ethics, communication and technology. First Aid/ CPR Certification are available through the class. Students will need to provide immunization records and may need additional vaccinations to complete clinical experiences. All students will be subject to a background check and drug testing. Students must be willing to adhere to health care facilities dress codes. Second-year job placement through the Cooperative Education Program (Co-Op) is possible. Students may be eligible to test for the Certified Nursing Assistant certification at the end of the year. Test preparation for the Pharmaceutical Technician exam is available if the student meets specific requirements such as proficiency in mathematics and reference information.

Core Course Descriptions:

0711 Foundations of Health Science - This course is designed to allow instructional content to focus on basic medical terminology, growth and development, nutrition, health maintenance practices and healthcare delivery systems. It is designed to provide the student with knowledge and technical skills required for infection control, disease transmission prevention, CPR and First Aid. Students will be provided with the opportunity to acquire certification in these areas.

0715 Advanced Principles of Health Science - Instructional content will focus on healthcare safety, environmental safety processes and procedures, ethical and legal responsibilities and mathematical computations. Medical terminology and the reinforcement, expansion and enhancement of biology content specific to diseases and disorders are an integral part of the course. Instruction will incorporate project and problem-based healthcare practices and procedures to demonstrate the importance of these skills. Students will develop basic technical skills required for all health career specialties including patient privacy, communication, teamwork and occupational safety and be provided with opportunities to obtain certifications in HIPAA/Data Privacy and health care safety.

0789 Clinical Specialty I

This course is designed to allow the student to choose a career work-based experience from the following specializations:

Select 1: Home Health Aide **(A)** Certified Nursing Assistant **(B)** Certified Patient Care Technician **(C)** ECG Certified Technician **(D)** Certified Health Unit Coordinator **(E)** Certified Phlebotomy Technician **(F)** Patient Care Technician (**(G)** Pre-Pharmacy Technician **(H)** Veterinary Science **(I)**

Physical Therapy Aide **(J)** Sports Trainer **(K)** Advanced Health Seminar **(L)** Certified Health Unit Coordinator **(M)** Family Caregiver **(N)**

Upon successful completion of the prerequisite courses in the Health Science Education concentration, students will be provided the opportunity in Clinical Specialty I to participate in a work-based clinical experience. Students choose a health career specialty for in-depth study and must complete a minimum of 55-100 hours in an applicable clinical rotation. Instruction is guided by career-specific content standards and objectives that must be mastered before students are eligible to attain established credentials and/or industry validation. Within this course, students focus upon employability skills and career development, and apply healthcare information technology and technical skills. Instruction will incorporate project and problem-based healthcare practices and procedures to demonstrate the criticality of these skills. Due to healthcare industry standards, exemplary attendance is mandatory. 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.

0790 Clinical Specialty II

This course is designed to allow the student to choose a career work-based experience from the following specializations:

Select 1: Home Health Aide **(A)** Certified Nursing Assistant **(B)** Certified Patient Care Technician **(C)** ECG Certified Technician **(D)** Certified Health Unit Coordinator **(E)** Certified Phlebotomy Technician **(F)** Patient Care Technician (**(G)** Pre-Pharmacy Technician **(H)** Veterinary Science **(I)** Physical Therapy Aide **(J)** Sports Trainer **(K)** Advanced Health Seminar **(L)** Certified Health Unit Coordinator **(M)** Family Caregiver **(N)**

Upon successful completion of the prerequisite cou**r**ses in the Health Science Education concentration, students will be provided the opportunity in Clinical Specialty II to participate in a work-based clinical experience. Students choose a health career specialty for in-depth study and must complete a minimum of 55-100 hours in an applicable clinical rotation. Instruction is guided by career-specific content standards and objectives that must be mastered before students are eligible to attain established credentials and/or industry validation. Within this course, students focus upon employability skills and career development, and apply healthcare information technology and technical skills. Instruction will incorporate project and problem-14 based healthcare practices and procedures to demonstrate the criticality of these skills. Due to healthcare industry standards, exemplary attendance is mandatory.

Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

PROSTART RESTAURANT MANAGEMENT **CONCENTRATION CODE: HO1010**

(AM & PM) **Grade Level:** 10-12

Credits: 8 **Length:** 2 Years

Teacher Name: Patrick Westmoreland **Instructional Hours:** 1080

Fall 2024

1013 Restaurant and Culinary Foundations (ProStart 1A) - **CORE**

1015 Hospitality Products & Services

Spring 2025

1014 Restaurant Management Essentials (ProStart 1B) - **CORE**

1017 Culinary Nutrition and the Menu

Fall 2025

1019 Advanced Principles in Food Production (ProStart 2A) - **CORE**

1016 Food Service Management Practices

Spring 2026

1018 Baking and Pastry Applications

1020 The Restaurant Professional (ProStart 2B) - **CORE**

Industry Credential: ServSafe, Governor's Workforce Readiness Certificate, First Aid/ CPR, Food Handlers

Concentration Description: The ProStart Restaurant Management concentration focuses on the skills needed for successful employment in a restaurant environment. ProStart is a restaurant

industry-driven curriculum developed by the National Restaurant Association Educational Foundation with input from thousands of restaurant professionals. The curriculum integrates performance-based learning with academics, entrepreneurship, and technology skills to prepare students for successful employment in the 21st Century. Under certain circumstances second year students may be placed in paid and unpaid internships.

Core Course Descriptions:

1013 Restaurant and Culinary Foundations - This course focuses on the basic preparation and service of safe food, basic introduction to industry safety standards, basic introduction to restaurant equipment, kitchen essentials in knife skills, stocks and sauces, and communication concepts in the restaurant industry.

1014 Restaurant Management Essentials - This course is designed to focus on management essentials in the restaurant industry, guest service, food production, and career exploration and pursuit.

1019 Advanced Principles in Food Production - This course is designed to examine advanced food production, nutrition, and cost control.

1020 Restaurant Professional - This course is designed to provide content related to global cuisine, sustainability, desserts and baked goods, and marketing.

WELDING **CONCENTRATION CODE: MA1980**

Credits: 8 **Grade Level:** 10-12

Length: 2 Years **Instructional Hours:** 1080

Teacher Name: Brent Fields- All second year PM and one section of first year AM.

Teacher Name: Robert Greene- Two first year sections, with one in the AM and one in the PM.

First Year Student **AM - Maximum of 24, PM - Maximum of 12**

Fall

1862 Welding 1 – **CORE** (RJTC dual enrollment with WVU-P)

1863 Welding 2 – **CORE** (RJTC dual enrollment with WVU-P)

Spring

1864 Welding 3 – **CORE** (RJTC dual enrollment with WVU-P)

1865 Welding 4 – **CORE** (RJTC dual enrollment with WVU-P)

Second Year Student PM (Maximum 22)

Fall

1989 Gas Tungsten Arc Welding

1983 Blueprint Reading and Metallurgy

Spring

1987 Gas Metal Arc Welding

Industry Credential: WV Welding Certification, AWS Welding Certification, Governor's Workforce Readiness Certificate, OSHA 10, First Aid/CPR

Concentration Description:

The Welding concentration focuses on careers that will build a knowledge base and technical skills in all aspects of the Welding Industry. Students will have the opportunity to earn the WV Welding Certification. The WV Welder Certification Exam is given on-site and free of charge to high school students. The Welding Technology Program at RJTC is designed to teach students welding skills needed to be successful in a welding career. This class is very hands-on and will feature the latest technologies available in the industry.

Core Course Descriptions:

1862 Welding 1 - This course is designed to introduce the student to the knowledge base and technical skills of the welding 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. Students will then begin developing skill sets in the fundamentals of Welding such as Welding Safety; Oxy-fuel Cutting; and Plasma Arc Cutting.

1863 Welding 2 - This course will continue to build student skill sets in areas of Air Carbon Arc Cutting and Gouging; Base Metal Preparation; Weld Quality; SMAW-Equipment and Setup; Shielded Metal Arc Electrodes; SMAW-Beads and Fillet Welds; Joint Fit Up and Alignment; SMAW-Groove Welds with Backing; and SMAW-Open V-Groove Welds.

1864 Welding 3 - Students will continue to build upon their skill sets in areas of Welding Symbols; Reading Welding Detail Drawings; Physical Characteristics and Mechanical Properties of Metals; Preheating and Post-heating of Metals; GMAW and FCAW-Equipment and Filler Metals; and GMAW and FCAW-Plate.

1865 Welding 4 - Welding 4 continues to build student skill sets in areas of GTAW-Equipment and Filler Metals; and GTAW-Plate. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

ACADEMIC COURSES

Traditional Academic Courses Offered

4009 English 9 (AM & PM)

Teacher Name: Tonya Martin **Length:** 1 Year

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.

4010 English 10 (AM & PM)

Teacher Name: Tonya Martin **Length:** 1 Year

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.

4011 ENGLISH 11 (AM & PM)

Teacher Name: Tonya Martin **Length:** 1 Year

Grade Level: 11 **Credit:** 1

English 11 is intended to prepare students for post-secondary education or for the workplace. The course includes standardized test preparation, study and note-taking skills, reading, listening and speaking skills, vocabulary development, grammar and composition review, and a general survey of

American literature. In addition, an awareness of workplace ethics and procedures is emphasized and application for computer technology is encouraged.

4012 ENGLISH 12 (AM & PM)

Teacher Name: Tonya Martin **Length:** 1 Year

Grade Level: 12 **Credit:** 1

English 12 is a continuation of English 11 with additional emphasis on college, technical school, and work-place skills. Moreover, the course is based on an overview of British literature and various genres of writing. Student writing is also stressed in terms of usage and mechanics, structure and word choice, and purpose and audience.

3027 FINANCIAL ALGEBRA (AM & PM)

Teacher Name: Melissa Kuhl-Hupp **Length:** 1 Year

Grade Level: 11 or 12 **Credit:** 1

Students will learn to interpret and analyze various functions, graphs, and data in order to make responsible and wise financial decisions in the context of their personal lives. Financial topics will include banking services, automobile purchases, and maintenance decisions, credit cards, and other short or long-term loans involving interest, income tax and employee benefits, investments and business decisions. Students in Financial Algebra will learn to communicate effectively while using accurate mathematical language in a financial context.

Prerequisite: A minimum of two Math credits.

3052 TRANSITION MATHEMATICS FOR SENIORS (AM & PM)

Teacher Name: Melissa Kuhl-Hupp **Length:** 1 Year

Grade Level: 12 **Credit:** 1

Transition Math prepares seniors for their entry-level college math course, their career, and life after high school. It solidifies their quantitative literacy by enhancing numeracy and

problem-solving skills as they review and investigate fundamental concepts from algebra, geometry, and statistics. Prerequisite: A minimum of three Math credits.

1451 Personal Finance (AM & PM)

Teacher Name: Melissa Kuhl-Hupp

Length: 1 Year

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.

Options Pathway

Teacher Name: Angie Burdette

Option Pathway (Option 1)

Option Pathway (Option 1) combines a state-approved career technical education (CTE) program of study, or the Option Pathway Career Integrated Experiential Learning (CIEL) CTE pathway with the WVDE approved high school equivalency (HSE) test to allow at-risk students the opportunity to earn a high school diploma. Since students do not earn credits in their core subject areas until ALL program requirements have been successfully met, parent/guardian permission is required (except for students enrolled in a West Virginia School of Diversion and Transition [WVSDT] facility) before the student is permitted to enroll in Option Pathway. Because this is a voluntary program, the student signature on the Option Pathway contract is also required.

To be eligible for Option Pathway (Option 1) students must:

- Be at least 16 years of age
- Be enrolled in and attending a West Virginia K-12 public high school approved to provide Option Pathway; a West Virginia Schools of Diversion and Transition program (WVDE institutional education program for juveniles); or the Mountaineer Challenge Academy (MCA)
- Take and achieve the minimum required scale scores of 538 in Reading and 518 in Math on the Tests of Adult Basic Education (TABE)
- Be determined to be “at-risk” of not graduating by meeting **one** of the following criteria:

    - at least two years behind kindergarten cohort, or
    - credit deficiencies of at least one year behind 9th grade cohort, or
    - are at risk of not graduating with 9th grade cohort, or
    - unable to graduate with 9th grade cohort due to not meeting GPA requirements
- Must be referred to the program by a school administrator, counselor, or teacher
- Must attend Option Pathway classes taught by certified Option Pathway teachers for a minimum of 15 hours per week
- May not be enrolled in alternative education
- Must be enrolled in a CTE program of study or the CIEL pathway
- Must complete all other state assessments or courses required by the WVDE and/or by state code
- Will receive a high school diploma if they pass the entire HSE test AND successfully complete their state-approved CTE program of study or the CIEL pathway

HSE Credit Recovery (Option 2)

HSE Credit Recovery (Option 2) is a supplemental program of the Option Pathway which may be offered by schools with an active Option Pathway (Option 1) program that has been approved by the WVDE. This supplemental program allows high school seniors the opportunity to recover credits in **one** major core subject area (by passing the corresponding HSE test) to graduate with their cohort. Per Policy 2444.4, HSE Credit Recovery is credit recovery of courses attempted and failed, NOT credit replacement for core courses in which the student has not earned a failing grade. **Only schools that have an active Option Pathway (Option 1) program and listed on the county application are permitted to use HSE Credit Recovery, per WVBE Policy 2444.4. Currently, the following counties do not have Option Pathway: Clay, Fayette, Hampshire, and Morgan.**

Option 2 students may **only** recover credits in the core courses as outlined in *Appendix 20, Approved Core Courses That May Be Recovered Through HSE Credit Recovery, Option Pathway Organizational Manual*.

Note: *A "senior" is defined as a student who has earned enough credits to be considered a senior according to the county's retention/promotion policy. Students who are in the second semester of their graduation cohort year may use HSE Credit Recovery (Option 2) if, by passing the one core content areas high school equivalency test, they would be able to graduate in the current school year, even if their WVEIS grade level does not yet reflect they have enough credits to meet "senior" status.*

To be eligible for HSE Credit Recovery (Option 2), students:

- Must meet the definition of being a high school senior as outlined above (as well as in the Option Pathway Organizational Manual)
- Must have a completed Referral Form for HSE Credit Recovery (Option 2) and HSE Opportunity (Option 3) Students, Appendix 18, Option Pathway Organizational Manual, signed by the school counselor, verifying the student's eligibility to participate in Option 2. This form must be provided to the Option Pathway teacher before the student is permitted to take the GED Ready® practice test or GED® test.

- Are permitted to recover credits in core courses ONLY in the courses outlined in Appendix 20, Approved Core Courses That May Be Recovered Through HSE Credit Recovery, Option Pathway Organizational Manual as stated above
- Will receive a high school diploma once they have met all state (WVBE Policy 2510) and county graduation requirements

HSE Opportunity (Option 3)

HSE Opportunity (Option 3) is a supplemental program of the Option Pathway that may be offered by schools with an active Option Pathway (Option 1) program. This supplemental program allows students who are intent on dropping out of school the opportunity to take the HSE test and earn the State of West Virginia High School Equivalency Diploma while still enrolled in school.

Only schools that have an active Option Pathway (Option 1) program and listed on the county application are permitted to use HSE Opportunity, per WVBE Policy 2444.4. Currently, the following counties do not have Option Pathway: Clay, Fayette, Hampshire, and Morgan.

To be eligible for HSE Opportunity (Option 3), students:

- Must be at least 17 years old (18 years old in counties that require students to attend school until age 18) and is eligible to officially drop out of school. Note: No 16-year-old student is permitted to take the GED test as an HSE Opportunity (Option 3) student since this is only permitted for students who are eligible to officially drop out of school
- Must be referred to the program by a school administrator, counselor, or teacher (have a completed *Student Referral Form for HSEA Credit Recovery and HSEA Opportunity*, *Appendix 18* of the *Option Pathway Organizational Manual*, signed by the school counselor)
- Must be coded as Option 3 in WVEIS and take the entire HSE test before dropping out of school
- Do not receive a high school diploma but do receive the State of West Virginia High School Equivalency Diploma upon passing the entire HSE test
- Do not receive any grades or credits on their high school transcript
- May go to an adult learning center to complete the HSE test if they do not pass the entire test prior to dropping out of school (only after they have dropped out of school).

  Note: *Adult education programs are not permitted to serve students who are enrolled in school per federal guidelines.*