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John Marshall High School Mission Statement

The faculty, staff, and administration will provide a safe, caring, and productive environment for our students so that they will obtain necessary knowledge and skills to be dynamic citizens of our ever-changing society.

Dear John Marshall High School Students and Parents,

The JMHS administration and counseling staff are pleased to present the new John Marshall High School Course Description Booklet. The purpose of this booklet is to guide students in planning their academic programs. This plan will assist in students selecting courses that fulfill the graduation requirements for the state of West Virginia and Marshall County Schools. Planning course work is an important aspect of each student's high school career, and a successful plan will prepare students for their post-graduation pursuits.

Students should carefully read and discuss their course options before making final decisions. Students may contact their counselor with any questions at 304-843-4444.

Sincerely,

Katie Dantrassy
kcarney@k12.wv.us
304843-4444 Ext. 230
Assistant Principal/Curriculum

COUNSELING DEPARTMENT

The student's assigned counselor will handle all academic and scheduling issues.

JMHS Counseling Staff	Counselor by Cohort	Email Address	Phone
Mia Angalich		Mia.angalich@k12.wv.us	304-843-4444
Angie Curran		Amgessler@k12.wv.us	304-843-4444
Chelsea Eikleberry		Chelsea.linsky@k12.wv.us	304-843-4444
Chad Tredway		Chad.tredway@k12.wv.us	304-843-4444
Support Staff			
Melanie Knutsen	Career Counselor	mknutsen@k12.wv.us	304-843-4444 Ext. 142
Sarah Petry	Counseling Secretary	Sarah.petry@k12.wv.us	304-843-4444 Ext. 222

Students will have the same counselor for their four years at John Marshall. Counselors will travel grade levels with their designated classes each year. Please stop in the Counseling Office if you have any questions.

Michelle Shia, a Y.W.C.A. counselor, educates students about the potential dangers of being in a physically or mentally abusive relationship. Her office is located in the second floor counseling office.

COLLEGE EARLY ENTRANCE AT JOHN MARSHALL

Dual credit is offered from West Virginia Northern Community College, West Liberty University, and West Virginia University to JMHS students through the "early entrance" programs of the respective schools. These courses are listed in the course description section with course requirements. Tuition fees are required and students must meet the prerequisite criteria set forth by each college. Dual credit courses carry an additional 1.0 value in GPA. The early entrance program is governed by the West Virginia Higher Education Policy Commission and as such, may change during the year. Decisions at the state level can affect and overrule local decisions regarding the offering of dual credit, so be sure to talk with a counselor to see which classes will be offered each semester.

MAKING COURSE SELECTIONS

Read this course description guide carefully. Each year of high school must be carefully planned to assure the

student has fulfilled all requirements to enter post-secondary education or to begin a career with job-related skills upon graduation. As courses are selected, students and parents must determine if the selections are focused toward future educational or career plans. Students can use the checklist below to help determine their course selections:

- ✓ Determine the career focus that you are preparing to pursue.
- ✓ Review your four-year plan in the program of study to identify which courses are most appropriate for your career path.
- ✓ Determine the specific graduation requirements necessary at each grade level.
- ✓ Read each course description. Be familiar with the courses that are appropriate for each grade and career path. If you are unsure, consult with your counselor.
- ✓ Make sure that there is a clear understanding of course prerequisites. Some courses require certain grade averages, test scores, attendance requirements, or teacher recommendations.

PARTICIPATION IN GRADUATION EXERCISES

To participate in graduation exercises at any Marshall County public high school, a student must have completed, without exception, all requirements for graduation as defined in Graduation Requirements or Board Policy for graduation. Students who fall short of requirements in any area shall not participate in such exercises. **Source: Marshall County Board of Education Policy and/or minutes.**

ADVANCED PLACEMENT

Advanced Placement (AP) courses provide rich course material, classroom discussions, and demanding assignments. The assignments typical of AP courses will help students develop the content mastery and critical thinking skills expected of college students, and feel confident in their abilities. Successful completion of national AP tests can lead to earning college credit and help a student stand out in the college admission process. AP courses require above-average Smarter Balanced Test scores, teacher recommendation, and at least a 3.0 GPA. AP classes require additional time commitments for coursework both in class and outside of school in the form of summer readings, independent research, homework assignments, and study time. The amount of time will be higher than the amount of time designated for Honors classes. Students carrying a high number of AP classes need to take this into consideration especially if participating in after school curricular activities or working a part-time job. AP courses carry an additional 1.0 value.

HONORS COURSES

John Marshall High School offers honor courses to academically advanced students. These courses offer in-depth scholarly exploration into the subject area. Honors classes will carry an additional workload in the area of after school homework, reading assignments, study time and summer reading. Honors classes carry an additional .5 value.

CAREER and TECHNICAL EDUCATION

Career and Technical Education at John Marshall encompasses a great variety of programs designed to equip students with work and life skills. Students explore career options and develop skills they will need to be successful in the modern workplace as well as prepare them for many technical college courses. Some courses can be a springboard to immediate employment for many graduates. Other students rely on technical education courses to prepare them for college and other post-secondary learning opportunities. More information can be found at <http://careertech.k12.wv.us>.

PROJECT LEAD THE WAY COURSES

PLTW empowers students to develop and apply in-demand, transportable skills by exploring real-world challenges. Through our pathways in computer science, engineering, and biomedical science, students not only learn technical skills, but also learn to solve problems, think critically and creatively, communicate, and collaborate. By creating an engaging learning environment, PLTW programs empower students to develop in-demand skills to pursue rewarding careers, solve important challenges, and contribute to global progress. John Marshall offers PLTW courses in biomedical, engineering, and computer sciences. These courses must begin with each program's intro course as a pre-requisite. Specific courses in this pathway are recognized as high school lab science credits. Students can earn Career Technical Completer certificates for taking all 4 courses in a given pathway. PLTW classes carry an additional .5 value.

EDGE ARTICULATION AGREEMENT

Earn a Degree, Graduate Early (EDGE) was created to address certain areas of curriculum duplication and at the same time provide incentives for more students to continue their education beyond high school. Students who participate in the EDGE initiative can earn community and technical college credit, free of charge, for the duplicated secondary and postsecondary courses identified during the curriculum alignment process.

To be eligible to receive credit in the EDGE initiative, a high school student must:

1. Enroll in an eligible EDGE high school course.
2. Pass the high school course and take one additional course at WVNCC to generate a transcript.

All John Marshall students will be provided the opportunity to enroll in EDGE courses. EDGE courses are identified throughout the Course Description Booklet where the credit is listed for each class. More information can be found at <http://careertech.k12.wv.us>.

PROMISE SCHOLARSHIP INFORMATION

Must complete high school graduation requirements at a West Virginia public or private high school.

Must complete at least one half of credits required for high school graduation through attendance at a public or private high school in the state of West Virginia.

- Limited exceptions are available for students from West Virginia who commute daily to an out-of-state public or private high school and who qualify as a military dependent under Section 6 of the PROMISE Scholarship Program Rule.

Must achieve a cumulative grade point average of at least a 3.0 on a 4.0 scale or whatever is considered a "B" average, based on county board grading policies, in both core courses AND overall coursework required for graduation by the West Virginia Department of Education.

- The Core grade point average is determined based on the grades in all core courses a student completes on the core class listing, not just those required for graduation.
- Initial eligibility will be determined by grades at the end of the seventh high school semester, but applicants may qualify as late as after the eighth semester.
- Students using the last semester of high school to determine their eligibility are responsible for having their school send an official transcript identifying both the core and overall grade point averages.
- Applicants who qualify with seventh semester grades must maintain the grade point average requirement through the eighth semester or the scholarship will be revoked.
- If a student does not have a qualifying seventh semester grade point average, they must apply and have a completed FAFSA submitted by the March 1 deadline to be considered.
- Grade point average determination must be determined by a high school counselor or school official.
- Weighted grades may be used based on county board grading policy.

Dual Credit and other College Coursework

- Students can take an unlimited number of credit hours prior to college enrollment and still be eligible for PROMISE Scholarship.
- College coursework taken in high school will count toward initial eligibility but not toward PROMISE renewal requirements.

Students must complete the minimum core requirements listed here.

- English - 4 credits
- Mathematics - 4 credits
- Social Sciences - 4 credits
- Natural Sciences - 3 credits

Minimum Test Score Requirements

Must meet standardized test score criteria on ACT or SAT national test by the June testing dates of the application year.

- ACT Score requirement: 22 composite score with a minimum of 20 in English, Mathematics, Science, and Reading.
- SAT Score requirement: 1100 combined score with minimum of 520 in Mathematics and 530 in Critical Reading.

***Consult www.cfwv.com for the latest information about the PROMISE Scholarship.**

PROMOTION CREDIT REQUIREMENTS

Students need to earn a minimum number of credits each year to be considered for upper class standing. Those requirements are:

To be considered a sophomore (10th grade) a student must earn a minimum of five (5) cumulative credits in his freshman year (9th grade).

To be considered a junior (11th grade) a student must earn a minimum of ten (10) cumulative credits from his freshman and sophomore (10th grade) years.

To be considered a senior (12th grade) and a candidate for graduation, a student must earn a minimum of eighteen (18) credits from his freshman (9th grade), sophomore (10th grade) and junior (11th grade) years.

One half credit (.5) is awarded for each semester of successfully completed work. Two semesters of successfully completed work equals one full credit. An earned letter grade of "D" or better is considered a passing mark.

VIRTUAL SCHOOL

Advanced students who are looking to enhance their education with electives not offered by John Marshall may be able to take virtual classes through an online environment. These classes require work outside of the normal day and a great deal of focus and discipline on the individual student to be successful. Students who do well learning independently and have at least a 3.0 GPA with a teacher's recommendation may be eligible to try virtual classes. Classes such as Cisco Networking, Interactive Game Design, Latin, German, Mandarin Chinese, Japanese, and others are available through the West Virginia Virtual School. More information can be found at <http://virtualschool.k12.wv.us>.

CREDIT RECOVERY

For students who need to recover credits from a core curricular class they previously failed, JM offers a credit recovery program. The credit recovery program uses the Plato Learning Environment to deliver subject material via an online program. Students should see their counselor to learn more information and start the program. Completing credit recovery can influence a student's ability to play college athletics.

West Virginia State Graduation Requirements

Core Requirements (18 credits)	
English Language Arts*	<p>4 credits English 9 English 10 English 11 English 12 or English 12 CR or Transition English Language Arts for Seniors* An AP® English course may be substituted for any of the above courses.</p>
Mathematics*	<p>4 credits** Algebra I Geometry Algebra II Pre-Calculus or Transition Mathematics for Seniors* or any other fourth course option such as Advanced Mathematical Modeling An AP® Mathematics course may be substituted for an equivalent course or any fourth course option.</p>
Science*	<p>3 credits Earth and Space Science (Grade 9) Biology (Grade 10) One additional lab science course or AP® science course</p>
Social Studies*	<p>4 credits World Studies (Grade 9) or an AP® Social Studies course United States Studies (Grade 10) or an AP® Social Studies course Contemporary Studies or an AP® Social Studies course Civics for the Next Generation or AP® Government and Politics.</p>
Physical Education*	<p>1 credit Physical Education 9-12 (WV Education Information System [hereinafter WVEIS course 6609]). At least 50 percent of class time for physical education should be spent in moderate to vigorous-intensity physical activity. Physical Education credit can also be earned through participation in SSAC sanctioned sports.</p>

Health*	1 credit Health 9-12 (WVEIS course 6909)
The Arts*	1 credit
Graduation Requirements (6 personalized)	
Personalized Education Plan	4 credits Each student's PEP will identify course work for the four (4) credits that will lead directly to placement in entry-level, credit-bearing academic college courses, an industry-recognized certificate or license, or workforce training programs. Best practices encourage students to take at least 1 AP® and/or AC course with corresponding examination, a fourth Science credit, and 2 credits in one World Language, and/or four credits cumulating in acquisition of industry and recognized Career and Technical Education (hereinafter CTE) credential focused on career aspirations.
Career and Technical Education (CTE)*	The four credits taken in a career and technical concentration must be consistent with those identified for WVDE approved career and technical programs of study. (Refer to W. Va. 126CSR44M, Policy 2520.13: Common Core Content Standards for Career and Technical Education in West Virginia Schools.) Each career and technical concentration in a school shall provide students the opportunity to obtain an industry recognized credential as part of the instructional program when applicable. School systems wishing to offer a concentration outside of the state approved CTE concentrations, must have four related courses approved by the local board of educations. Approved WV Career Clusters Agriculture, Food and Natural Resources Architecture and Construction Arts, A/V Technology and Communication Business Management and Administration Education and Training Government and Public Administration Health Sciences Hospitality and Tourism Human Services Information Technology Law, Public Safety, Correction and Security Manufacturing Marketing Science, Technology, Engineering and Mathematics Transportation, Distribution and Logistics Students with disabilities may earn 4 credits in Community Readiness Training recommended through an IEP Team as a personalized concentration.
World Languages	Communicating in a global society requires students to apply appropriate language strategies through embedded opportunities to explore and gain an understanding of the world around them. Undergraduate admission to West Virginia four-year colleges and universities include the completion of two units of the same world language.
Electives	2 Credits The remaining graduation requirements are to be electives. When choosing electives, students should consult with their chosen postsecondary educational program to make sure the electives are acceptable.
Developmentally Appropriate Practices for Student Success and Career Readiness	
Career Development	All students in grades 9-12 will be provided structured, on-going experiences for career exploration, decision making, and career preparation. Career development shall be an integrated approach, engaging all staff in assisting students during the school day to explore the 16 career clusters. Career exploration will include opportunities for

	<p>students to discover their interests in emerging careers including STEM careers in science, oil & gas, technology, engineering, and math. The school will engage student advisors in utilizing each student's career awareness activities to develop the PEP. Advisors will assist students and their parents to utilize their various interests, learning styles, career and academic assessments to guide educational planning and career choices. Career exploration activities will be documented in each student's personalized career portfolios.</p>
<p>Comprehensive School Counseling Program</p>	<p>A standards-focused, integrated, comprehensive and developmental school counseling program will assist students with the acquisition of school success and career readiness skills to prepare for high school and postsecondary success. School counselors will work collaboratively with other school staff to assist students with academic and postsecondary planning that leads to seamless transitions to the identified postsecondary options. Refer to WVBE Policy 2315 to ensure alignment with policy requirements.</p>
<p>Student Advocate/Advisor/Mentor</p>	<p>High schools will implement an advisory system that provides students with meaningful supportive relationships and maximizes each student's personalized learning experience. An adult advocate, advisor, or mentor will take an interest in each student's successful learning, goal setting, career planning and personal growth. The advisory system shall be evidence based and systemically integrate school success and career readiness skills (e.g., work, ethic, communication skills, team work, collaborative skills, personal responsibility, social skills, organization, financial literacy, and study skills).</p>
<p>Physical Activity</p>	<p>High schools should recognize that healthy lifestyles and academic success are tightly interwoven. Therefore, schools should promote wellness activities that extend beyond the course requirements for physical education and health. This may be accomplished through programs that focus on skill development, sportsmanship and teamwork. Opportunities should be provided for 30 minutes of moderate to vigorous integrated physical activity daily to keep high school students physically active throughout the school year. Wellness education should target the widespread behaviors that undermine the health and resulting capacity for personal success during adolescence.</p>
<p>Technology</p>	<p>Students in grades 9-12 will be provided regular opportunities within the context of normal course work to master the standards set forth in WVBE Policy 2520.14. The infrastructure of classrooms should infuse technology and pedagogy to transform instruction, thus leading to improved student engagement. It is recommended that all students complete an online learning experience during grades 9-12. Students must be provided opportunities for advanced technology applications.</p>

IMPORTANT SCHEDULING NOTE

The John Marshall High School Master Schedule is based on WVDE high school curriculum requirements and driven by student numbers and student interest. Courses and total course sections offered are determined by the number of students expressing interest in the course. While elective courses are offered in this booklet, courses may not be taught in a given school year if student numbers or personnel are not sufficient to offer the class.

**JMHS
Alma Mater**

**The glory of John Marshall High
Will live for years to come.
The faculty and students are
United into one**

**When we leave we'll ne'er forget
The times we spent in learning,
The knowledge and the friendships true
Which came for all our yearning.**

**All hail dear John Marshall
This love song lives for you
With all our hearts
We wish to say,
“We love you, yes we do!”**

**-written and composed
by senior student Reva Litman
(now Reva Icard) in 1968**



How To Read a Course Description

COURSE TITLE: **English Language Arts 10 American Literature Honors**

Course Name

Course
Number:

40101H

40102H

Course Number used in scheduling

Grade Level:

10

Grade level of students who can enroll in the course

Graduation

Credit:

1 Language

Arts

Graduation requirement met by the course and the number of credits earned

The content is the same as American Literature with more depth and at a quicker pace for the advanced student. Since this is a feeder course into AP Literature 11, students are required to enrich their literary background through assigned summer reading and supplemental reading throughout the school year. The approximate out of class preparation time for this course is 1 to 2 hours per evening.

Duration: 2 semesters

Prerequisite: See criteria for Honors Placement. Must pass both semesters of English Language Arts 9 in order to take Honors. For students not in honors class last year or a transfer student, standardized test scores and grades will be used.



CORE COURSES

ENGLISH

COURSE TITLE:	English Language Arts 9
Course Number: 400910 400920	English Language Arts 9 focuses on the Next Generation CSOs in reading, writing, grammar, speaking and technology that the state requires be taught with an emphasis placed on writing.
Grade Level: 9	Duration: 2 semesters
Graduation Credit: 1 Language Arts	
COURSE TITLE:	English Language Arts 9 Honors
Course Number: 40091H 40092H	English Language Arts 9 Honors has the same concepts as English Language Arts 9. More formal writing will be introduced. Literary structures will be analyzed and elements of writing will be surveyed.
Grade Level: 9	Duration: 2 semesters
Graduation Credit: 1 Language Arts	Prerequisite: Students must pass both semesters of English Language Arts 8 and receive a teacher recommendation. Standardized test scores and grades will be considered to determine proficiency for entry.
COURSE TITLE:	English Language Arts 10
Course Number: 401010 401020	The Next Generation CSOs surveys various genres of fiction and non-fiction literature. Emphasis is placed on major literature samples, writers, and historical literary background. A research paper/project using MLA format is required. All content standards including grammar and mechanical skills are covered. Out-of-class assignments including reading and writing are required in this course.
Grade Level: 10	Duration: 2 semesters
Graduation Credit: 1 Language Arts	
COURSE TITLE:	English Language Arts 10 Honors
Course Number: 40101H 40102H	The Next Generation CSOs surveys various genres of fiction and non-fiction literature. Emphasis is placed on major literature samples, writers, and historical literary background. A research paper/project using MLA format is required. All content standards – including grammar and mechanical skills – are covered. Out-of-class assignments – including reading and writing – are required in this course. Since this is a feeder course into English Language Arts 11 Advanced Placement, students are required to enrich their literary background through assigned summer reading.
Grade Level: 10	Duration: 2 semesters
Graduation Credit: 1 Language Arts	Prerequisite: Students must pass both semesters of English Language Arts 9. Standardized test scores and grades will be considered to determine proficiency for entry.
COURSE TITLE:	English Language Arts 11
Course Number: 401110 401120	This Next Generation CSOs surveys English literature from the Anglo-Saxon era to the present. Emphasis is placed on major literary samples, writers, and historical literary background of Great Britain. A research project/paper is required. Grammar and mechanical skills are reviewed.
Grade Level: 11	Duration: 2 semesters
Graduation Credit: 1 Language Arts	

COURSE TITLE:	English Literature and Composition AP
Course Number: 40421A 40422A	Students are required to enrich their literary backgrounds through assigned summer reading and supplemental reading throughout the school year. The major intent of this course is to guide students to take the Advanced Placement Exam in literature and composition in May of their junior year. Successful passage of the exam provides students with the opportunity to earn three hours of college credit. Extensive out-of-class reading and preparation is required. Students should expect to spend 1 to 2 hours of time per night in preparation for this class.
Grade Level: 11	
Graduation Credit: 1 Language Arts	
	Duration: 2 semesters
	Prerequisite: Student must have a "B" average or better in English Language Arts 10; Standardized test scores and grades will be considered to determine proficiency for entry.
COURSE TITLE:	English Language Arts 12
Course Number: 401210 401220	This course focuses on reading and writing non-fiction prose, principally narrative, persuasive, and expository essays, to allow for successful transition to post-secondary schools. Students closely analyze written and visual sources, synthesize material from these texts to create their own compositions, create and present multimedia projects and utilize MLA and APA conventions. All content standards and objectives are covered. Out-of-class reading and writing is required in this course.
Grade Level: 12	
Graduation Credit: 1 Language Arts	
	Duration: 2 semesters
COURSE TITLE:	English Language and Composition AP
Course Numbers: 40411A 40412A	The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Students read and analyze the rhetorical elements and their effects in non-fiction written and visual texts from many disciplines and historical periods. Extensive out of class reading and writing is required in this course, including summer assignments.
Grade Level: 12	
Graduation Credit: 1 Language Arts	
	Successful passage of the exam provides student with the opportunity to earn up to six hours of college credit or honors recognition at the college level.
	Duration: 2 semesters
	Prerequisite: Must have a B or better average in English Language Arts 11; Standardized test scores and grades will be considered to determine proficiency for entry. It is recommended students consider taking AP Civics and Government concurrently.



ENGLISH ELECTIVES

COURSE TITLE:	Film to Print I & II
Course Numbers: 382010 382020	This elective will use high interest novels as a foundation for analyzing the corresponding films. Skills assessed will include close reading of the texts and visuals as well as writing skills, introduction to film vocabulary will be included. A final collaborative project will include a production and screen play of a 5 minutes short film. Possible texts include: The Hunger Games by Suzanne Collins; Divergent by Veronica Roth; Ender's Game by Orson Scott Card; Fahrenheit 451 by Ray Bradbury; the Lion King and Shakespeare's Hamlet, and many more. Reading and writing will be an integral part of this class. Duration: 1 semester
Grade Level: 11-12	
Graduation Credit: ½ Elective	
COURSE TITLE:	Creative Writing I (Prose) & II (Poetry)
Course Numbers: 402200 402300	The course provides an opportunity for the student to develop personal writing skills. It is designed to develop interest and talents and provide opportunities for creative self-expression in exposition, short story, poetry, and other prose writing. Duration: 1 semester
Grade Level: 9-12	
Graduation Credit: ½ Elective	
COURSE TITLE:	Novel Study
Course Numbers: 415000	The Novel Study Course will trace various themes collections of poetry, drama, media, non-fiction, and novels. Students develop strategies to enhance reading, writing, collaborative, and speaking skills. Students write essays for varied purposes and audiences. Students identify voice in literature and express their own voice through written and oral communication. Independent reading is assessed on a regular basis. Duration: 1 semester
Grade Level: 9-12	
Graduation Credit: ½ Elective	
COURSE TITLE:	Mythology
Course Numbers: 412500	This course offers students the opportunity to study Greek, Norse, and Arthurian legends and myths. Emphasis is placed on the influence myths and legends have on the thought, culture, literature, and language of Western civilization. Students who are credit deficient in English will not be accepted in this class. Duration: 1 semester
Grade Level: 11-12	
Graduation Credit: ½ Elective	
COURSE TITLE:	Speech/Oral Communication
Course Numbers: 407600	Content touches on verbal and non-verbal communications, listening, group communications, interviewing, speech writing and delivery, demonstrations as well as research skills. An introduction to forensics is included. Students should be enrolled in or have completed American Literature or 9th grade English Honors. Duration: 1 semester
Grade Level: 10-12	
Graduation Credit: ½ Elective	
COURSE TITLE:	Speech 2 Dual Credit
Course Numbers: 41651X 41652X	Content consists of learning to prepare and deliver speeches in the following areas: Dramatic Duo, After Dinner Speaking, Original Oratory, Parliamentary Procedure, Impromptu, and Extemporaneous Speaking, Dramatic and Humorous Interpretation, Interpretation of Prose and Poetry. Duration: 2 semesters Prerequisite: Successful completion of Speech/Oral Communication 1 with a "C" or better average.
Grade Level: 11-12	
Graduation Credit: 1 Elective	
College Credit: WLU COM 101	

COURSE TITLE:	School Yearbook I, II, III, IV
<p>Course Numbers: 407110 407120 407210 407220 407310 407320 407410 407420</p> <p>Grade Level: 9-12</p> <p>Graduation Credit: 1 Elective</p>	<p>Students in Yearbook will engage in the entire process of producing the current annual edition. Students will engage in all types of production activities including sales, advertising, writing copy, page layout, and use of various computer programs including word processing and desktop publishing. Previous experience in writing, journalism, desktop publishing, or photography is helpful but not required. Students will learn basics of journalism, design, photography, writing, and business.</p> <p>Prerequisite: Students must successfully complete the application process to be considered for a staff position. Students must have had a "B" or better in English the previous year to be eligible for this class. Students who are credit deficient in ENGLISH will not be accepted into this class.</p>
COURSE TITLE:	AP Seminar
<p>Course Numbers: 40451A 40452A</p> <p>Grade Level: 9-12</p> <p>Graduation Credit: 1 Elective</p>	<p>Students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments and presentations. Students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Extensive out of class reading and writing is required in this course.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Must be a sophomore or junior, have a current GPA of 3.0 and receive recommendations from at least two current teachers; Standardized test scores will be considered to determine proficiency for entry.</p>
COURSE TITLE:	AP Research
<p>Course Numbers: 40461A 40462A</p> <p>Grade Level: 9-12</p> <p>Graduation Credit: 1 Elective</p>	<p>AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. Extensive out of class reading and writing is required in this course.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Student must successfully complete the AP Seminar course.</p>

MATHEMATICS

COURSE TITLE:	Algebra I
Course Numbers: 306110 306120	Students in Algebra I will focus on units that deepen and extend understanding of linear and exponential relationships. They will also engage in methods for analyzing, solving, and using quadratic functions. Students will continue developing mathematical proficiency in a developmentally-appropriate progressions of standards. Duration: 2 semesters
Grade Level: 9	
Graduation Credit: 1 Math	
COURSE TITLE:	Algebra I Honors
Course Numbers: 30611H 30612H	Students in Algebra I Honors will focus on units that deepen and extend understanding of linear and exponential relationships. They will engage in methods for analyzing, solving, and using quadratic functions. Algebra I Honors is designed to provide students with an in-depth level of instruction at an accelerated pace, covering additional topics. The course emphasizes critical thinking and real world problem solving. It is targeted to highly motivated students who have some understanding of Algebra. Duration: 2 semesters Prerequisite: Student must have teacher recommendation and B or above in 8 th grade math.
Grade Level: 9	
Graduation Credit: 1 Math	
COURSE TITLE:	Geometry
Course Numbers: 306210 306220	Students in Geometry will explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in other geometry classes. For example, transformations are emphasized early in this course. Students will continue developing mathematical proficiency in a developmentally-appropriate progressions of standards. Students will continue the skill progressions from previous courses. Duration: 2 semesters
Grade Level: 10	
Graduation Credit: 1 Math	
COURSE TITLE:	Geometry Honors
Course Numbers: 30621H 30622H	Students in Geometry Honors will explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in other geometry classes. For example, transformations are emphasized early in this course. Students will continue developing mathematical proficiency in a developmentally-appropriate progressions of standards. The course emphasizes critical thinking and real world problem solving. Duration: 2 semesters Prerequisite: Student must have teacher recommendation, passing standardized test scores, and B or above in Algebra I.
Grade Level: 9-10	
Graduation Credit: 1 Math	
COURSE TITLE:	Algebra II
Course Numbers: 306310 306320	Students in Algebra II will build on their work with linear, quadratic, and exponential functions and extend their knowledge of functions to include polynomial, rational, and radical functions. Students will solve quadratic equations over the set of complex numbers and solve exponential equations using the properties of logarithms. Trigonometric functions will be introduced. Students will continue developing mathematical proficiency in a developmentally-appropriate progression of standards. Students will continue the skill progressions from previous courses. Duration: 2 semesters
Grade Level: 10-11	
Graduation Credit: 1 Math	

COURSE TITLE:	Algebra II Honors
Course Numbers: 30631H 30632H	Students in Algebra II Honors will build on their work with linear, quadratic, and exponential functions and extend their knowledge of functions to include polynomial, rational, and radical functions. Students will solve quadratic equations over the set of complex numbers and solve exponential equations using the properties of logarithms. Trigonometric functions will be introduced. Students will continue developing mathematical proficiency in a developmentally-appropriate progression of standards. Algebra II Honors is designed to provide students with an in-depth level of instruction at an accelerated pace, covering additional topics. The course emphasizes critical thinking and real world problem solving.
Grade Level: 9-10	
Graduation Credit: 1 Math	
	Duration: 2 semesters
	Prerequisite: Student must have teacher recommendation, passing standardized test scores, and B or above in Algebra I.
COURSE TITLE:	PreCal/Trig Honors
Course Numbers: 30641H 30642H	Pre-calculus/Trig Honors is a course designed to give students the prerequisite skills they need to be successful in a Calculus course. These skills include advanced relationships among complex numbers, vectors and matrices. Students will expand their understanding of polynomial, rational, composite, and inverse and trigonometric functions as well as conic sections. They will enhance their understanding of probability distributions, and series. Students will also study the concept of limits. During this course, students will develop reasoning abstractly and quantitatively.
Grade Level: 10-11	
Graduation Credit: 1 Math	
	Duration: 2 semesters
	Prerequisite: Algebra II or Algebra II Honors. Student must be on track for Calculus AB.
COURSE TITLE:	PreCal/Trig
Course Numbers: 306410 306420	Pre-Calculus/Trig extends students' knowledge of functions and equations (e.g., higher-order functions, exponential, and logarithmic) as well as provide preparation for a calculus.
Grade Level: 10-11	
Graduation Credit: 1 Math	
	Duration: 2 semesters
	Prerequisite: Algebra II
COURSE TITLE:	College Algebra III Dual Credit
Course Numbers: 30511H 30512H	College Algebra III is worth 3 credits at WVU. This is a semester (half credit) course at JMHS. Marshall County pays for your textbook. Students pay class fees to WVU. This course follows WVU's calendar.
Grade Level: 10-12	
Graduation Credit: ½ Math	
College Credit: WVU MATH 126	Duration: 1 semester
	Prerequisite: Overall 3.0 average, "C" or better in Algebra I, Geometry, and Algebra II and a passing grade on the WVU placement test.
COURSE TITLE:	College Trigonometry Dual Credit
Course Numbers: 30481H 30482H	Worth 3 credits at WVU. This is a semester (half credit) course at JMHS. Marshall County pays for your textbook. Student pays class fees to WVU. This course follows WVU's calendar.
Grade Level: 10-12	
Graduation Credit: ½ Math	
College Credit: WVU MATH 128	Duration: 1 semester
	Prerequisite: College Algebra III Dual Credit

COURSE TITLE:	Advanced Mathematical Modeling
Course Numbers: 302510 302520	Students in Advanced Mathematical Modeling will continue to build upon their algebra and geometry foundations and expand their understanding through further mathematical experiences. The primary focal points of Advanced Mathematical Modeling include the analysis of information using statistical methods and probability, modeling change and mathematical relationships, mathematical decision making in finance, and spatial and geometric modeling for decision-making. As students work with these topics, they continually rely on mathematical processes, including problem-solving techniques, appropriate mathematical language and communication skills, connections within and outside mathematics and reasoning. Students also use multiple representations, technology, applications and modeling and numerical fluency in problem solving contexts.
Grade Level: 11-12	
Graduation Credit: 1 Math	
	Duration: 2 semesters
COURSE TITLE:	Statistics AP
Course Numbers: 30331A 30332A	The AP Statistics course is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. The course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes in the AP Statistics course: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding.
Grade Level: 11-12	
Graduation Credit: 1 Math	
	Duration: 2 semesters
	Prerequisite: Algebra II Honors
COURSE TITLE:	Calculus Advanced Placement AB
Course Numbers: 30311A 30312A	Differential and integral calculus with application involving polynomial, exponential, logarithmic, and trigonometric functions. Homework is 1 to 1.5 hours per night. The major intent of this course is to guide students to take the Advanced Placement Exam in May, providing them with the opportunity to earn three hours college credit.
Grade Level: 11-12	
Graduation Credit: 1 Math	
	Duration: 2 semesters
	Prerequisite: Pre-Cal/Trig Honors
COURSE TITLE:	Calculus Advanced Placement BC
Course Numbers: 30321A 30322A	This course is an extension of the topics covered in Calculus AB, including arc-length, additional techniques of integration, improper integrals, and indeterminate forms. A thorough treatment is given to "infinite series," including Taylor, Maclaurin, and Power series. Parametric equations, polar coordinates, vector-valued functions, along with advanced topics on exponential growth and decay are also studied. Homework required is 1 to 1.5 hours per night. The major intent of this course is to guide students to take the Advanced Placement Exam in May, providing them with the opportunity to earn up to six hours college credit.
Grade Level: 11-12	
Graduation Credit: 1 Math	
	Duration: 2 semesters
	Prerequisite: AP Calculus AB



SCIENCE



<p>COURSE TITLE:</p> <p>Course Numbers: 620110 620120</p> <p>Grade Level: 9</p> <p>Graduation Credit: 1 Science</p>	<p>Earth and Space Science</p> <p>A required lab science 9th grade level course in which students will focus on 5 major topics: Space Systems, History of Earth, Earth's Systems, Weather and Climate, and Human Sustainability. There is an emphasis on using engineering and technology concepts to design solutions to challenges facing human society. There is a focus on several scientific practices which include developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and designing solutions. Students will engage in active inquires, investigations, and hands-on activities as they develop and demonstrate conceptual understandings and research and laboratory skills described in the objectives.</p> <p>Duration: 2 semesters</p>
<p>COURSE TITLE:</p> <p>Course Numbers: 62011H 62012H</p> <p>Grade Level: 9</p> <p>Graduation Credit: 1 Science</p>	<p>Earth and Space Science Honors</p> <p>A required lab science 9th grade level course in which students will focus on 5 major topics: Space Systems, History of Earth, Earth's Systems, Weather and Climate, and Human Sustainability. There is an emphasis on using engineering and technology concepts to design solutions to challenges facing human society. There is a focus on several scientific practices which include developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and designing solutions. Students will engage in active inquires, investigations, and hands-on activities as they develop and demonstrate conceptual understandings and research and laboratory skills described in the objectives. All topics studied in Earth and Space science will be examined in more depth in the honors course. A three day field trip to study the geology of WV is also a course requirement. The field trip will take place sometime in September or October.</p> <p>Duration: 2 semesters</p>
<p>COURSE TITLE:</p> <p>Course Numbers: 602110 602120</p> <p>Grade Level: 10</p> <p>Graduation Credit: 1 Science</p>	<p>Biology</p> <p>A required lab science 10th grade level course that introduces the student to the life sciences. Topics covered include focus on five life science topics: Structure and Function, Inheritance and Variation of Traits, Matter and Energy in Organisms and Ecosystems, Interdependent Relationships in Ecosystems, and Natural Selection and Evolution. There is an emphasis on using engineering and technology concepts to design solutions to challenges facing human society. Students will engage in active inquiries, investigations, and hands-on activities as they develop and demonstrate conceptual understandings and research and laboratory skills described in the objectives.</p> <p>Duration: 2 semesters</p>

COURSE TITLE:	Biology Honors
Course Numbers: 60211H 60212H	A required lab science 10th grade level course (taken in lieu of Biology) that introduces the student to the life sciences. Topics covered include focus on five life science topics: Structure and Function, Inheritance and Variation of Traits, Matter and Energy in Organisms and Ecosystems, Interdependent Relationships in Ecosystems, and Natural Selection and Evolution. There is an emphasis on using engineering and technology concepts to design solutions to challenges facing human society. There is a focus on several scientific practices which include developing and using models, planning and conducting investigations, analyzing and interpreting data, using mathematical and computational thinking, constructing explanations and designing solutions. Students will engage in active inquiries, investigations, and hands-on activities as they develop and demonstrate conceptual understandings and research and laboratory skills described in the objectives. All topics studied in Biology will be examined in more depth in the honors course. Formal lab report writing will be expected and a focus in the course as well.
Grade Level: 10	
Graduation Credit: 1 Science	
	Duration: 2 semesters
	Prerequisite: Students must have teacher recommendation.
COURSE TITLE:	Biology AP
Course Numbers: 61211A 61212A	A highly intensive course that is tailored to the AP Biology Curriculum Framework that focuses on the major concepts in biology and connections. The course is designed so that students develop a deep conceptual understanding, as well an opportunity to integrate biological knowledge and science practices through inquiry-based activities and laboratory investigations without having to teach a textbook from cover to cover. A college text will be used in order to prepare students for success on the AP exam. Students are encouraged to take the Advanced Placement Examination, which may qualify them to earn college credit for their first year college biology course. Students who intend to pursue a medical/science career path OR who have excelled in academics and want to test out of freshman Biology in college should strongly consider taking this course. Courses that would be helpful to have taken or be taken concurrently, but are not required include: Chemistry I and Microbiology . Study time averages 1 hour per night. A summer assignment will be given in order to reduce the course-load throughout the year and is expected to be completed on time. A successful student in this course would demonstrate being very self-disciplined, hard-working, prepared, timely and on-task at all times.
Grade Level: 11-12	
Graduation Credit: 1 Science	
	Duration: 2 semesters
	Prerequisite: Successful completion (A/B average) of Biology and appropriate math course. Students must have teacher recommendation. Chemistry strongly recommended.
COURSE TITLE:	Chemistry I
Course Numbers: 603110 603120	Chemistry I is intended to provide students with a basic background in chemistry and teach problem-solving techniques. Students will perform experiments relating to the covered topics. Students taking Chemistry I are encouraged to take Chemistry 2. This course is designed to prepare a student for college chemistry.
Grade Level: 10-12	
Graduation Credit: 1 Science	
	Duration: 2 semesters
	Prerequisite: Successful completion of Algebra I.
COURSE TITLE:	Chemistry I Honors
Course Numbers: 60311H 60312H	Chemistry Honors is the first year of AP Chemistry and uses a college text to study basic concepts, atomic structure, energy changes in reactions and chemical bonding. Study time averages 1 to 2 hours per night. This class is difficult and requires a serious time commitment from the student in order to be successful. Well-developed problem solving skills are essential. Completion of summer assignment by due date is required.
Grade Level: 10-12	
Graduation Credit: 1 Science	
	Duration: 2 semesters
	Prerequisite: Students must have teacher recommendation.

COURSE TITLE:	Chemistry II
Course Numbers: 603310 603320	Chemistry II is a continuation of Chemistry I. This course covers reaction rates, equilibrium, acids and bases, and electrochemistry and places emphasis on laboratory skills.
Grade Level: 11-12	Duration: 2 semesters
Graduation Credit: 1 Science	Prerequisite: Maintain at least a "C" average in Chemistry I.
COURSE TITLE:	Chemistry AP
Course Numbers: 63211A 63212A	This course uses a college text and is designed to prepare students for the AP Chemistry Exam and earn college credit for a first year college chemistry course. Homework study time averages 1½ to 2 hours per night. Completion of ALL summer assignments by due date is required. <u>Students take Advanced Placement LAB concurrently with AP Chemistry.</u>
Grade Level: 11-12	Duration: 2 semesters
Graduation Credit: 1 Science	Prerequisite: Successful completion of Chemistry I Honors. Students must have teacher recommendation.

“We are what we repeatedly do. Excellence, therefore, is not an act, but a habit.”

-Aristotle, Greek Philosopher

COURSE TITLE:	Physics I
Course Numbers: 604110 604120	Physics is designed for those planning careers in science, physical therapy, engineering, dentistry, pharmacology, etc. This course prepares students for college-level physics.
Grade Level: 11-12	Duration: 2 semesters
Graduation Credit: 1 Science	Prerequisite: Successful completion of Algebra I and Geometry.
COURSE TITLE:	Physics I AP
Course Numbers: 63261A 63262A	This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits.
Grade Level: 11-12	Duration: 2 semesters
Graduation Credit: 1 Science	Prerequisite: Successful completion of Algebra I and Geometry.
COURSE TITLE:	Physics 2 AP
Course Numbers: 63271A 63272A	This course is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics.
Grade Level: 12	Duration: 2 semesters
Graduation Credit: 1 Science	Prerequisite: Successful completion of Algebra I and Geometry.

COURSE TITLE:	Physical Science
Course Numbers: 601110 601120	This course is a general lab science that explores classification of matter, elements and the Periodic Table, chemical bonds, and chemical reactions during the first semester. The second semester focuses on motion/Newton's Laws, electricity, magnetism, sound and light waves, and energy. This is a third course option for a lab science. Duration 2 semesters
Grade Level: 10-12	
Graduation Credit: 1 Science	
COURSE TITLE:	Environmental Science
Course Numbers: 631210 631220	This course builds on previous knowledge of chemical, physical, biological, and geological processes and focuses on the natural world. Students will develop an understanding of how humans affect and are affected by the environment. Students must be trustworthy, independent workers, and will be required to go outside to test the stream behind the school, identify native trees, and collect data for GLOBE which will be entered on the GLOBE website. Students will also use GIS to study watersheds. Duration: 2 semesters Prerequisite: Algebra I, Geometry, Chemistry is recommended.
Grade Level: 11-12	
Graduation Credit: 1 Science	
COURSE TITLE:	Forensic Science
Course Numbers: 604410 604420	This class is designed for students who desire a hands-on science course that integrates physics, chemistry, and biology. Students will use problem-solving skills, laboratory science, and content knowledge of all fields of science to solve hypothetical crimes. <u>This course can be counted as one of the three lab sciences required for graduation, but students must check with individual colleges to be sure it will be accepted.</u> Duration: 1 semester Prerequisite: Successful completion of Earth Science 9, Biology, and Geometry with a "C" average.
Grade Level: 11-12	
Graduation Credit: 1 Science	
COURSE TITLE:	Human Anatomy and Physiology Honors
Course Numbers: 61031H 61032H	This course is designed for students who plan to enter careers that require extensive knowledge of human anatomy and physiology, such as those expecting to continue in a medical or science-related career path. Standards are addressed in greater depth and with high levels of expectation. Students will investigate the structure and function of the human body and with an emphasis on laboratory work. This course studies the structure and function of the human body and the mechanisms for maintaining homeostasis within it. It includes the study of cells, tissues and various body systems (skeletal, cardiovascular, lymphatic, muscular, respiratory, digestive, and others). It also includes the concepts of development, metabolism, and fluid and electrolyte balance. This course uses dissection as an instructional activity. Duration: 2 semesters Prerequisite: Successful completion (B/C average) of Microbiology and/or Chemistry is recommended.
Grade Level: 12	
Graduation Credit: 1 Science	
COURSE TITLE:	Microbiology
Course Numbers: 616210 616220	This course studies microorganisms and genetics. It focuses on developing good microscope/lab skills and techniques by surveying various microorganisms. Students will complete a genetic component, including a <i>Drosophila</i> project, upon taking the course. This course is intended for students expecting to pursue a medical career path or a degree in science. Duration: 2 semesters Prerequisite: "B" average in Biology
Grade Level: 11-12	
Graduation Credit: 1 Science	

COURSE TITLE:	Zoology (Elective Credit)
Course Numbers: 627010 627020	<p>The Zoology elective builds on the biology core with added emphasis on animal taxa, basic body plans, symmetry, and behavior. This course encourages critical thinking, use of the scientific method, integration of technology, and application of knowledge and skills learned. A variety of learning opportunities will be utilized, including lecture/discussion, reading in the content area, written assignments, and laboratory exercises. Dissections are REQUIRED. This class is intended for students who plan to attend a 4-year college. <u>This course will not count as one of the three lab sciences required for graduation.</u></p> <p>Duration: 2 semesters</p> <p>Prerequisite: Successful completion of Physical Science and Biology</p>
Grade Level: 11-12	
Graduation Credit: 1 Elective	



“Science is fun. Science is curiosity. We all have natural curiosity. Science is a process of investigating. It's posing questions and coming up with a method. It's delving in.”

Sally Ride
American Physicist, Astronaut

SOCIAL STUDIES



<p>COURSE TITLE:</p> <p>Course Numbers: 701010 701020</p> <p>Grade Level: 9</p> <p>Graduation Credit: 1 Social Studies</p>	<p>World Studies</p> <p>The course emphasizes the historic economic, geographic, political, and social structure of various cultural regions of the world from the dawn of civilization to the 20th Century. Special attention is given to the formation and evolution of societies into complex political and economic systems.</p> <p>Duration: 2 semesters</p>
<p>COURSE TITLE:</p> <p>Course Numbers: 70101H 70102H</p> <p>Grade Level: 9</p> <p>Graduation Credit: 1 Social Studies</p>	<p>World Studies Honors</p> <p>The course emphasizes the historic, economic, geographic, political, and social structure of various cultural regions of the world from the dawn of civilization to the 20th Century. Special attention is given to the formation and evolution of societies into complex political and economic systems. The Honors course requires well-developed reading, writing, and research skills. Students should be highly motivated and are expected to participate in class.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: "A" or "B" average in 8th grade West Virginia History and teacher/counselor recommendation.</p>
<p>COURSE TITLE:</p> <p>Course Numbers: 70421A 70422A</p> <p>Grade Level: 9</p> <p>Graduation Credit: 1 Social Studies</p>	<p>Human Geography AP</p> <p>The purpose of the AP course in Human Geography is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice.</p> <p>Duration: 2 semesters</p> <p>Pre-Requisite: Must demonstrate ability in English to read and comprehend college-level texts and demonstrate interest and achievement in history. Teacher recommendation necessary.</p>

COURSE TITLE:	U.S. Studies
Course Numbers: 700910 700920	This course studies the forming of the United States from the Pre-Columbian civilizations to its transformation as a dominant political and economic influence in the world at the beginning of the 20 th Century. Special emphasis is placed on the evolution of the Constitution, and how the challenges of settling expansive and widely-differing environments were met by a diverse population.
Grade Level: 10	
Graduation Credit: 1 Social Studies	
COURSE TITLE:	European History AP
Course Numbers: 70451A 70452A	The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. This course also develops context for understanding the expansion of contemporary institutions, the role of continuity and change in present-day society and politics, and the evolution of current forms of artistic expression and intellectual discourse.
Grade Level: 10-12	
Graduation Credit: 1 Social Studies	
	Duration: 2 semesters
	Prerequisite: World Studies Honors is recommended.
COURSE TITLE:	Contemporary Studies
Course Numbers: 701110 701120	The focus of this course is on America and its role in the world from 1914 to the present. Themes of study include American reform movements, cultural values, economic and technological development, geography and environment, diversity, conflict, democratic principles, and global interdependency.
Grade Level: 11	
Graduation Credit: 1 Social Studies	
	Duration: 2 semester
COURSE TITLE:	Contemporary Studies: Dual Credit
Course Numbers: 70111X 70112X	The focus of this course is on America and its role in the world from 1914 to the present. Themes of study include American reform movements, cultural values, economic and technological development, geography and environment, diversity, conflict, democratic principles, and global interdependency.
Grade Level: 11	
Graduation Credit: 1 Social Studies	
College Credit: WLU HIST 211	Duration: 2 semester
COURSE TITLE:	U.S. History AP
Course Number: 70461A 70462A	The course will cover U.S. history from the pre-Columbian era to the present. Students will examine American political institutions and behavior, public policy, social and economic change, diplomacy and international relations, and cultural and intellectual developments. The AP course uses a college-level text and requires well-developed reading, writing, and research skills. Students should be highly motivated and are expected to participate in class. The course requires a minimum of 5 hours of homework per week.
Grade Level: 11	
Graduation Credit: 1 Social Studies	
	Duration: 2 semesters
	Prerequisite: "A" or "B" average in Social Studies and teacher/counselor recommendation.

COURSE TITLE:	Government & Politics: Comparative AP
Course Numbers: 70431A 70432A	In this course, students develop an understanding of fundamental concepts used by political scientists to study the processes and outcomes of politics in China, Iran, Mexico, Nigeria, Russia, and the United Kingdom. Students will learn to compare and contrast the political institutions of those nations as well as analyze and interpret relevant basic data. This is an expansion of what is learned in U.S. Government and Politics AP, although highly motivated juniors are encouraged to take the class as well. Course may require an average of 3 hours of homework per week. Duration: 2 semesters Prerequisite: "A" or "B" average in Social Studies and teacher/counselor recommendation.
Grade Level: 11-12	
Graduation Credit: 1 Social Studies	
COURSE TITLE:	Government & Politics: U.S. AP
Course Numbers: 70441A 70442A	This advanced course examines constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of national government, public policy, civil rights, and civil liberties. Fundamental economic principles and personal finance issues are included (as required by the state). The AP course is taught with college-level texts and requires well-developed reading, writing, and research skills. Students should be highly motivated and are expected to participate in class. Course requires an average of 3-5 hours of homework per week. Duration: 2 semesters Prerequisite: Should be taken along with AP English Language. "A" or "B" average in social studies recommended.
Grade Level: 11-12	
Graduation Credit: 1 Social Studies	
COURSE TITLE:	Civics for the Next Generation
Course Numbers: 703110 703120	In this course, students develop the knowledge, skills and dispositions to engage in civic life. The two broad areas of study are government and politics, civic life, and personal finance. Special emphasis is placed on analysis of the personal, political and economic roles of responsible citizens in American democracy. Duration: 2 semesters
Grade Level: 12	
Graduation Credit: 1 Social Studies	
COURSE TITLE:	Psychology AP
Course Numbers: 70471A 70472A	This more demanding course picks up where Psychology I ends. Units of the second semester include sensation and perception, personality, cognition, testing and individual differences, abnormal psychology, treatment of psychological disorders, and social psychology. The pace of the course is faster, with more vocabulary and more writing assignments. Students are required to be highly motivated and enthusiastic participants in class. The course requires a minimum of 5 hours of study time per week. Duration: 2 semesters Prerequisite: "A" or "B" average in Social Studies and Science, or teacher/counselor recommendation.
Grade Level: 12	
Graduation Credit: 1 Social Studies	

“Nothing is impossible, the word itself says 'I'm possible!'”

**-Audrey Hepburn
Actress**

SOCIAL STUDIES ELECTIVES

<p>COURSE TITLE:</p> <p>Course Numbers: 714900</p> <p>Grade Level: 11-12</p> <p>Graduation Credit: ½ Elective</p>	<p>A Remembrance of Horror: Nazi Germany & Other Genocides</p> <p>This course is a detailed examination of the programs of persecution and mass murder carried out by the Nazi German regime between 1917 and 1945. Several themes will be prominent throughout the semester. First, we will examine and try understand when and how policies of exclusion can be transformed into a systematic program of murder. In this regard, we will examine not only the development of Nazi Germany as a "racial state," but also the role of ideologies, such as anti-Semitism, nationalism, and racism, in shaping policies of exclusion in Germany and elsewhere in Europe. Second, we will focus on the place of the Holocaust in European, and not only German, history. The events we associate with the Holocaust took place across the continent of Europe and were shaped by local histories; throughout the course, we will pay close attention to the interaction between Germans, Jews, and non-German native populations. Third, we will try to understand how eyewitness memories, historical research, and media representations all shape our contemporary understanding of what the Holocaust was and why it seems so important to us today. The mass murder of European Jews will be the central focus of this course. We will, however, also discuss programs of discrimination and murder carried out against other groups (e.g. Roma, the disabled, and Poles) and attempt to place these phenomena within the context of Nazi German and other nations' racial policies.</p> <p>Duration: 1 semester</p>
<p>COURSE TITLE:</p> <p>Course Numbers: 724310 724320</p> <p>Grade Level: 11-12</p> <p>Graduation Credit: ½ Elective</p>	<p>Pop Culture I & II</p> <p><i>Rock and Roll: An American Story</i> is an online resource that focuses on different eras of American popular music and will be employed throughout the course. Students will examine the roots of Rock and Roll and its foundation in Southern Blues, Jazz, and Country music. In addition, a variety of film genres that have had a significant impact on popular culture will be reviewed and analyzed. Students will utilize numerous forms of technology, create music videos, and research movements that have affected trends from television to clothing.</p> <p>Duration: 1 semester</p>
<p>COURSE TITLE:</p> <p>Course Numbers: 733200</p> <p>Grade Level: 10-12</p> <p>Graduation Credit: ½ Elective</p>	<p>Sports History</p> <p>This semester class covers material and offers discussion about the origins and history of specific sports from the ancient Greeks through modern times. Special topics related to sports, such as sportsmanship, racial integration, Title IX legislation, and steroids will be discussed. Tests, book reviews, and research papers are required. Web research will be incorporated, as well as related videos.</p> <p>Duration: 1 semester</p>
<p>COURSE TITLE:</p> <p>Course Numbers: 736100</p> <p>Grade Level: 9-12</p> <p>Graduation Credit: ½ Elective</p>	<p>Appalachian Culture A/B</p> <p>This course is offered in the Fall semester with "Part A" offered in even-numbered years and "Part B" in odd-numbered years.</p> <p>Part A topics include geography, nature, superstitions, architecture, Native American tribes, early settlers, later immigrants, Marshall County history, genealogy, crafts, toys and games.</p> <p>Part B topics include stereotypes, language, humor, folktales, music, food, medicine, economics, politics, religion, and literature (including the reading of Moundsville author Davis Grubb's class "Night of the Hunter").</p> <p>Duration: 1 semester</p>

COURSE TITLE:	Psychology
Course Numbers: 732110	The course covers the history and theories of psychology, research methods, biological bases of behavior, states of consciousness, learning, memory, motivation and emotion, and developmental psychology. Students will develop the reading, studying, and note-taking skills required for success in college classes. The tests are challenging and will require 3 to 5 hours of study time per week. Students are required to be enthusiastic participants in class.
Grade Level: 12	
Graduation Credit: ½ Social Studies	
	Duration: 1 semester
	Prerequisite: "A" or "B" average in Social Studies is strongly recommended.
COURSE TITLE:	Sociology
Course Numbers: 734100	This course is designed to introduce students to the basic principles of sociology. In addition, research into the social issues of our times is stressed. The Sociology course is taught with a college-level text and requires well-developed reading, writing, and research skills. Students should expect to spend approximately 5 hours per week on outside reading.
Grade Level: 12	
Graduation Credit: ½ Social Studies	
	Duration: 1 semester
	Prerequisite: "A" or "B" average in Social Studies is strongly recommended.
COURSE TITLE:	Geography
Course Numbers: 703300	Geography courses provide an overview of world geography, but may vary widely in topic coverage. Possible topics include the physical environment; the political landscape; the relationship between people and land; economic production and development; and the movement of people, goods, and ideas.
Grade Level: 9-12	
Graduation Credit: ½ Social Studies	



HEALTH/PHYSICAL EDUCATION

COURSE TITLE:	Health 9
Course Numbers: 690901	Health 9 is designed to explore the issues that currently are important to the daily lives of students. Main topics emphasized include leading a healthy life, self-esteem, stress management, drug, alcohol and tobacco abuse, nutrition and physical fitness. Duration: 1 semester
Grade Level: 9-12	
Graduation Credit: ½ Health	
COURSE TITLE:	Health 10 (online option)
Course Numbers: 690902	Health 10 is designed to teach ways to improve and prolong mental, physical and social well-being through a wellness and holistic approach. Main topics emphasized; you are responsible for your own health, mental and social health, family and interpersonal relationships, marriage, building relationships, sexually transmitted diseases, stress management, drug, alcohol, and tobacco abuse. This course also has an online version that is orchestrated through John Marshall if the course will not fit into a student's PEP plan or schedule. Duration: 1 semester Prerequisite: Health 9
Grade Level: 9-12	
Graduation Credit: ½ Health	
COURSE TITLE:	PE High School 9
Course Numbers: 660901	This is a semester course designed to give students an overview of various lifetime sports. All students MUST participate and complete the Fitness Gram Physical Education Fitness Test mandated by the State of West Virginia. Grade is based on participation in class, dressing for class in approved gym attire, behavior and sportsmanship. Duration: 1 semester Prerequisite: All incoming freshmen will be scheduled into this course.
Grade Level: 9	
Graduation Credit: ½ Physical Education	
COURSE TITLE:	PE High School 10
Course Numbers: 660902	This is a semester course designed to give students an overview of various lifetime sports. All students MUST participate and complete the Fitness Gram Physical Education Fitness Test mandated by the State of West Virginia. Grade is based on participation in class, dressing for class in approved gym attire, behavior and sportsmanship. Duration: 1 semester Prerequisite: All sophomores will be scheduled into this course.
Grade Level: 10	
Graduation Credit: ½ Physical Education	
COURSE TITLE:	Extracurricular Inter-Scholastic PE
Course Numbers: 794800	If a student plays an SSAC sanctioned sport, he or she can receive credit for 1 semester of PE per sports season. The coach must sign paperwork verifying the student was at all necessary practices and completed the entire season. This is a non-graded course that is not included in GPA. Duration: 1 semester
Grade Level: 9-10	
Graduation Credit: ½ Physical Education	
COURSE TITLE:	PE High School 10 – Walking/Jogging
Course Number: 6609	Walking/Jogging – This is a semester course designed to give students the flexibility of developing a personal cardio vascular fitness program. Students will use pedometers to keep track of steps and distance. Various other techniques will be used throughout the semester. Duration: 1 semester
Grade Level: 10-12	
Graduation Credit: ½ Physical Education	

HEALTH/PHYSICAL EDUCATION ELECTIVES

COURSE TITLE:	Driver's Education
Course Numbers: 681100	This course is designed to teach and encourage safe driving habits and to develop defensive driving techniques as a lifelong principle for safe vehicle operation. Enrollment is limited, so preference will be made based upon grade level (seniors, juniors, and then sophomores). A Learner's Permit is NOT required.
Grade Level: 10-12	
Graduation Credit: ½ Elective	
COURSE TITLE:	Sports Medicine I & II
Course Numbers: 693310 693320 693410 693420	This course is designed to familiarize the student with the field of Athletic Training. It will allow students to develop an awareness of the current and proper techniques for the prevention, care, and rehabilitation of athletic injuries.
Grade Level: 11-12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Fitness/Conditioning Activities
Course Numbers: 670900	This class is designed to keep student athletes or non athletes in good physical condition by participating in various cardio workouts. Areas of concentration include: speed, agility, endurance and flexibility.
Grade Level: 11-12	
Graduation Credit: ½ Elective	
	Duration: 1 semester
	Prerequisite: Must have passed PE High School 9 and PE High School 10.
COURSE TITLE:	Recreational Sport/Advanced Physical Education
Course Numbers: 674100	Class is designed for students who enjoy participating in individual and team sports, recreational activities, and outdoor sports. Grade is based on participation, dressing in approved gym clothes, behavior and sportsmanship.
Grade Level: 11-12 (Seniors given priority)	
Graduation Credit: ½ Elective	
	Duration: 1 semester
	Prerequisite: Must have passed PE High School 9 and PE High School 10.
COURSE TITLE:	Weight Training
Course Numbers: 676510 676520	This course will allow the student to create an individual weight lifting program. Daily participation, dressing in approved gym clothes, and attendance is the basis of grades.
Grade Level: 10-12	
Graduation Credit: ½ Elective	
	Duration: 1 semester or 2 semesters
	Prerequisite: Must have passed PE High School 9.
COURSE TITLE:	Life Fitness Education
Course Numbers: 673300	This class is designed for students that have a desire to learn about the benefits and importance of exercise, how to properly exercise, proper nutrition, and about general wellness. Students will be expected to do class work as well as participation in various exercises and activities.
Grade Level: 9-12	
Graduation Credit: ½ Elective	
	Duration: 1 semester

FINE ARTS (PERFORMING and VISUAL) COURSES

	Vocal and Instrumental Music Courses
COURSE TITLE:	Band I, II, III, IV
Course Numbers: 361110 361120 361210 361220 361310 361320 361410 361420 Grade Level: 9-12 Graduation Credit: 1 Fine Arts/Elective	Students will prepare selected marching and concert band music for performances and festivals. Students are required to be enrolled in band in order to audition for All-State band or to participate in Solo-N-Ensemble or Regional Honors Band. Practice outside of school hours may be required. Students will be required to attend all scheduled rehearsals and performances during school and outside curricular time. To move on to the next sequenced band class, a student must pass the previous course. <u>Honors credit is available through specific criteria provided by Mrs. Filben.</u> Duration: 2 semesters
COURSE TITLE:	Steel Drum Band
Course Numbers: 374210 374220 Grade Level: 9-12 Graduation Credit: 1 Fine Arts/Elective	Open to any band student or with permission from Mrs. Filben. Students will be required to attend all scheduled rehearsals and performances during school and outside curricular time. Duration: 2 semesters
COURSE TITLE:	Chorus I, II, III, IV
Course Numbers: 362110 362120 362210 362220 362310 362320 362410 362420 Grade Level: 9-12 Graduation Credit: 1 Fine Arts/Elective	Chorus I is open to any interested student. The course develops individual vocal techniques and basic music concepts. Class participation and performances are part of the grade. This group will combine to perform with the concert choir. To continue on to the next course level, a student must pass the previous course. Duration: 2 semesters
COURSE TITLE:	Monarch Choir
Course Numbers: 377010 377020 377110 377120 377210 377220 377310 377320 Grade Level: 9-12 Graduation Credit: 1 Fine Arts/Elective	Students will study advanced choral literature and technique. Students should have prior choral experience. Because class participation and performances are part of the grade, students with questionable attendance records may not be allowed to take this class. Duration: 2 semesters Prerequisite: By Audition Only

COURSE TITLE:	Music Theory/Music Appreciation
Course Numbers: 375600 374600	Students will be instructed in the fundamentals of written music theory. The course is designed to prepare instrumental, vocal, piano, and string students for college theory.
Grade Level: 9-12	Duration: 1 semester
Graduation Credit: ½ Fine Arts/Elective	
COURSE TITLE:	Piano I, II, III, IV
Course Numbers: 368100 368200 368300 368400	This course offers beginning instruction in piano for the novice to instruction for advanced Piano students. <u>Students must pass each level to advance to the next level.</u>
Grade Level: 9-12	Duration: 1 semester
Graduation Credit: ½ Fine Arts/Elective	
COURSE TITLE:	Orchestra I, II, III, IV
Course Numbers: 376400 376500 377600 377700	This class will be taught during the school day to students who have experience playing violin, viola, cello, or bass. Students will be required to attend all scheduled rehearsals and performances during school and outside curricular time. Students must pass each level to advance to the next level. <u>Honors credit is available through specific criteria provided by Mr. Jones.</u>
Grade Level: 9-12	Duration: 2 semesters
Graduation Credit: 1 Fine Arts/Elective	



“Where words fail, music speaks.”

**-Hans Christian Andersen
Author**

	Visual Arts
COURSE TITLE:	Art I
Course Numbers: 321110 321120 Grade Level: 9-12 Graduation Credit: 1 Fine Arts/Elective	Students produce two-dimensional and three-dimensional artworks using a variety of media, techniques, technology, and processes. They use verbal and written formats to relate art skills and strategies to other disciplines, various cultures, major art movements and historical periods. Students will practice responsible workplace skills and review career options and study the concept of art criticism. They will critique and analyze artworks in verbal and written formats. Duration: 2 semesters
COURSE TITLE:	Art II
Course Numbers: 321210 321220 Grade Level: 10-12 Graduation Credit: 1 Fine Arts/Elective	General Art 2 is a continuation of the concepts presented in General Art I with a focus on developing greater skill in handling various media, and the expression of individual ideas through artworks. Artistic concepts will be discussed such as the use of themes and personal motifs and symbols in artworks. The art of various cultures and their effect on our own culture will be explored. Career opportunities will be discussed and portfolio development will begin. Duration: 2 semesters Prerequisite: Pass both semesters of Art I.
COURSE TITLE:	Art III
Course Numbers: 321310 321320 Grade Level: 11-12 Graduation Credit: 1 Fine Arts/Elective	General Art 3 builds on previous content standards with a more in-depth approach. Students analyze art from various cultures visually, verbally, and in written form. Students examine and relate various themes and purposes of art forms to the total educational process. They study art history, criticism, and aesthetics in relation to individually selected artworks and develop a personal philosophy of art. The students develop personal portfolios which include products and critiques. Duration: 2 semesters Prerequisite: Successfully complete Art I and Art II
COURSE TITLE:	Art IV
Course Numbers: 321410 321420 Grade Level: 12 Graduation Credit: 1 Fine Arts/Elective	In General Art 4 students develop and clarify their philosophy of art and art making through in-depth explorations with media, techniques and processes. Students expand and refine a portfolio reflecting a broad base of knowledge in the arts. Students focus on value and drawing skill and the necessary steps to achieve a portfolio for college. Duration: 2 semesters Prerequisite: Successfully complete Art I, Art II and Art III or be a senior planning on majoring in Art in college.
COURSE TITLE:	Printmaking/Graphics
Course Numbers: 334910 334920 Grade Level: 10-12 Graduation Credit: 1 Fine Arts/Elective	This studio art course is an introduction to the world of Graphic Design. The course content will include the development of design skills, technical use of the material, and concept development through verbal and visual methods. Photoshop will be included in the Graphic program. Duration: 2 semesters

COURSE TITLE:	Ceramics/Pottery I/II
Course Numbers: 330710 330720 330810 330820	This is a studio art class that introduces the foundations of hand-built and wheel-thrown pottery. Students will explore in depth, the properties and terminology associated with clay, various forming and decorating techniques and the history of clay in various cultures. Class evaluation includes hand-built and wheel thrown projects, class participation, textbook readings, essay tests, and written assignments. <u>Students will get dirty from the clay and fingernails must be kept short.</u> Consistent attendance and extra work outside of the regular class hours are important for success in this class. Student must be able to work independently.
Grade Level: 11-12	Duration: 2 semesters
Graduation Credit: 1 Fine Arts/Elective	Prerequisite: Art 1
COURSE TITLE:	Performing Arts
COURSE TITLE:	Theatre I/Theatre II
Course Numbers: 380110 380220	Students interested in pursuing oral communications, TV, radio, film, public relations, or theatre will find this course an interesting introduction. Content includes the structure, varieties, history and evaluation of drama, voice & diction, improvisation, and mime, and gaining self-confidence.
Grade Level: 10-12	Duration: 2 semesters
Graduation Credit: 1 Fine Arts/Elective	Prerequisite: "C" or higher grade upon completing English Language Arts 9.
COURSE TITLE:	Theatre III/Theatre IV
Course Numbers: 380310 380420	A look into the production aspects of modern theatre. Content includes fundamentals of play production, stage settings, lighting, basic costuming & make-up, as well as musical production.
Grade Level: 10-12	Duration: 2 semesters
Graduation Credit: 1 Fine Arts/Elective	Prerequisite: Theatre I and Theatre II



FOREIGN LANGUAGE

COURSE TITLE:	Spanish I
Course Numbers: 566110 566120	Students develop oral and written communication skills with an emphasis on listening, speaking, and writing to prepare for college foreign language courses. They are also introduced to the Spanish-speaking world through cultural activities.
Grade Level: 9-12	Duration: 2 semesters
Graduation Credit: 1 Foreign Language/Elective	
COURSE TITLE:	Spanish II
Course Numbers: 566210 566220	Students refine listening and speaking skills acquired in level 1 and are expected to comprehend more spoken Spanish. Emphasis is also on vocabulary and grammar through structure skills.
Grade Level: 9-12	Duration: 2 semesters
Graduation Credit: 1 Foreign Language/Elective	Prerequisite: Must have passed Spanish I.
COURSE TITLE:	Spanish III Honors Dual Credit
Course Numbers: 56631X 56632X	In this honors course of study, the student will continue to study the Spanish language and culture with an emphasis on more complex structures and vocabulary. Students will begin the study of Spanish literature.
Grade Level: 10-12	Duration: 2 semesters
Graduation Credit: 1 Foreign Language/Elective	Prerequisite: Spanish II
College Credit: Bethany 110	

"Learn from yesterday, live the present, the hope of tomorrow."

-Albert Einstein

Theoretical physicist and philosopher of science

CAREER AND TECHNICAL EDUCATION COURSES

Career and Technology Education (CTE) is a program that enables John Marshall students to fulfill their career potential. The CTE program at John Marshall provides students with:

- academic subject matter taught with relevance to the real world, often called “contextual learning”;
- employability skills, from job-related expertise to workplace ethics
- educational pathways that help them explore interests and careers while progressing through school
- postsecondary career pathways that include registered apprenticeship, industry certification, community college certificate/associate degree programs, and four-year college degree programs.

Career and Technology Education Programs provide students with BOTH relevant career skills preparation AND rigorous academic skills.

A **Completer Program** is a sequence of courses on a specific career pathway that provides a minimum of four credits in a Career and Technology Education Program. Most Completer Programs at John Marshall are two-year programs taken during a student's junior and senior year. When a student enters a Completer Program, they are committing to the two years it will take to acquire the four credits needed.

Many students in the completer programs will graduated high school with some type of certification or credentials. The West Virginia Board of Education approves all completer programs, and completion of the required CTE completer credits meets Marshall County Schools graduation requirements at the high school level. Students who successfully complete a CTE program in most occupational pathways are eligible for community college credit through EDGE (Earn a Degree Graduate Early).

Simulated Workplace - <https://wvde.us/simulated-workplace/>

The West Virginia Department of Education has worked with committee experts from numerous businesses and industries throughout West Virginia to design Simulated Workplace. This new educational initiative has been created to assist schools in implementing workplace environmental protocols that align with West Virginia workforce requirements, including random drug testing, professionalism, attendance, and safety. Simulated Workplace has not only enhanced instructional delivery of career education but has created a more engaged career and technical student. The simulated workplace environment permits students the opportunity to take ownership of their individual performance as it impacts the overall success of their education, while thriving in an authentic workplace culture. Simulated Workplace also encourages local business and industry experts to join onsite review teams to assist schools in meeting their workforce needs and expectations.

NOCTI Testing - <https://wvde.us/governors-economic-initiatives/technical-assessment/>

The Office of Governor's Economic Initiatives supports Federal Perkins accountability measures, such as technical assessments, for CTE state approved programs. The office oversees CTE programs' implementation of the National Occupational Competency Testing Institute (NOCTI) technical assessment as well the CTE Portfolio.

NOCTI provides Standardized Assessments for Career and Technical Education Centers that are aligned with industry standards and created by industry experts in conjunction with educators across the country.

Governor's Workforce Credential - <https://wvde.us/governors-economic-initiatives/student-opportunities/>

The Governor's Workforce Credential signifies a student's knowledge of business processes within a Simulated Workplace environment. The West Virginia Governor endorses only the top CTE completers in the state for their achievements in academics, technical training and work readiness.

National Technical Honor Society - <https://nthts.org/>

The National Technical Honor Society serves over 100,000 student members annually. Awarding over \$2 million in scholarships to date, NTHS honors the achievements of top CTE students, provides scholarships to encourage the pursuit of higher education, and cultivates excellence in today's highly competitive, skilled workforce.

Student membership is open to John Marshall High School students who are enrolled in career and technical education programs. Each student must meet the qualifications set by the school. Membership cost is a one-time \$30 fee.



CTE ELECTIVES

CTE Electives are courses that can be taken independently of a CTE Completer program (see Completer Program pg 33). Some of these electives are designed to be exploratory courses taken in 9th and 10th grade before applying for CTE programs. Some may also be taken at any grade level as a personal elective course. Course descriptions for these electives are listed under the corresponding programs.

Courses listed below do not have prerequisites to enroll:

Agriculture Science

- 0101 - Introduction to Agriculture, Food, and Natural Resources – page
- 0149 - Companion Animal Care – page
- 0190 - Fish and Wildlife Management – page

Broadcasting Technology

- 2421 – Communication Systems – page

Business

- 1401 – Accounting Principles I
- 1452 – Personal Finance
- 1439 – Business & Marketing Essentials
- 1411 – Business Computer Applications I
- 1417 – Business Law and Ethics
- 0422 – Marketing Principles
- 0437 – Hospitality and Tourism Marketing
- 1455 – Web Page Publishing
- 1431 – Digital Imagine/Multimedia

Therapeutic Services

- 0700 – Exploring Health Professions

Construction Technology

- 2424 – Construction Systems

Project Lead The Way (PLTW)

- 2461 – Introduction to Engineering
- 0727 – Principles of Biomedical Science
- 1408 – Computer Science Essentials

PROSTART Restaurant Management

- 1018 – Baking and Pastry Applications
- 0951 – Food Preparation

Family and Consumer Science

- 0929 – LIFE
- 0903 – Parenting & Strong Families

Home Mechanics

- 2554 – Mechanical Service Systems

Students planning to enroll in one of the following programs starting in 11th grade are encouraged to take Career Exploration in 10th grade.

Automotive Technology
Collision Repair Technology
Machine Tool Technology
Welding
Computer Aided Drafting

COURSE TITLE:	Career Exploration
Course Numbers: 762710 762720	This course is divided into six-week segments with each segment being completed in a different vocational area. The six areas include Automotive Technology, Collision Repair Technology, Welding Technology, Drafting, Home Repair, Construction Systems, and Machine Tool Technology. This course will expose the student to different technologies that will help them in choosing a future Career Technical area or for general experience.
Grade Level: 10	
Graduation Credit: 1 Elective	
	Duration: 2 semesters

“Always do your best. What you plant now, you will harvest later.”

-Og Mandino, Author



AGRICULTURE SCIENCE – PLANT SYSTEMS

Available Credentials/Clubs: OSHA 10, FFA, TSA

- Completer Courses:**
1. 0101 - Intro to Agriculture, Food, & Natural Resources
 2. 0212 - Horticulture
 3. 0134 - Agricultural Experience
 4. Select one of the following:
 - a. 0240 - Turf and Landscape Systems
 - b. 0214 - Greenhouse Production and Management

- Related Electives:**
1. 0149 – Companion Animal Care
 2. 0190 – Fish and Wildlife Management

COURSE TITLE:	Introduction to Agriculture, Food, and Natural Resources
Course Numbers: 010110 010120	This area of study is designed to provide students with core skills and competencies needed for pursuing careers in agriculture and natural resources. Students will utilize problem-solving techniques and participate in laboratory activities to develop an understanding of course concepts. Safety instruction is integrated into all activities. Students will be provided with real world learning opportunities and instruction related to selection, development, and maintenance of individual Supervised Agricultural Experience (SAE) programs. #1 Completer Course
Grade Level: 9-12	
Graduation Credit: 1 Elective	
Duration: 2 semesters	
	CTE Elective
COURSE TITLE:	Horticulture
Course Numbers: 021210 021220	Horticulture is one of four courses to complete Plant Systems Program. The horticultural course is an in-depth look at concepts of plant growth and plant usage in our environment for aesthetics, ecosystem, and as plant products for human consumption. Topics: Plant growth requirements, plant processes, and propagation. Students will use the greenhouse as a laboratory. #2 Completer Course
Grade Level: 10-12	
Graduation Credit: 1 Elective	
Duration: 2 semesters	
	Prerequisite: Introduction to Agriculture

COURSE TITLE:	Turf and Landscape Systems
Course Numbers: 024010 024020	Turf Management is a class to help students understand and develop competencies in turf grass management. Students will analyze major concepts of the turf grass industry such as pest management, cultural practices, and methods for evaluating turf grass problems. The class will be responsible for controlling pests and managing the growing environment. Students will be proficient in turf management tools and equipment and are expected to use these tools daily. This course prepares students to design appropriate landscape for home, business, and other facilities. After the design plan is formulated, the students will implement the plan. Attention to detail and drawing of plans emphasized. #4a Completer Course Duration: 2 semesters Prerequisite: Horticulture and Intro to Agriculture
Grade Level: 11-12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Greenhouse Production and Management
Course Numbers: 021410 021420	An in-depth look at skills and knowledge related to greenhouse environment. Students will learn how to manipulate this environment for plant growth and reproduction. There will be structural requirements for building and designing greenhouse structures to optimize plant growth. #4b Completer Course Duration: 2 semesters Prerequisite: Horticulture and Introduction to Agriculture
Grade Level: 10-12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Agriculture Experience
Course Numbers: 013410 013420	Required for summer projects for <u>agricultural completers only</u> . Projects must be pre-approved. Credit is awarded for completion of the Agriculture Experience Project. #3 Completer Course Duration: 4 semester of enrollment Junior/Senior Year as a ½ credit each year. Prerequisite: Teacher recommendation
Grade Level: 11-12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Companion Animal Care (First Semester Only)
Course Numbers: 0149E0	Students will gain an understanding in veterinary science through the study of many animals including dogs, cats, birds, and other household pets. This study will include anatomy and physiology of various animals. Duration: 1 semester CTE Elective
Grade Level: 9-12	
Graduation Credit: ½ Elective	
COURSE TITLE:	Fish and Wildlife Management (Second Semester Only)
Course Numbers: 019000	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. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. Duration: 1 semester CTE Elective
Grade Level: 9-12	
Graduation Credit: ½ Elective	

Education is not the learning of facts, but the training of the mind to think.

- Albert Einstein



AUTOMOTIVE TECHNOLOGY

Available Credentials/Clubs: ASE, WV State Inspection, Skills USA

- Completer Courses:**
1. 1631 - Automotive Technology MLR-1
 2. 1623 - Automotive Technology MLR-2
 3. 1625 - Automotive Technology MLR-3
 4. 1637 - Automotive Technology MLR-4
 - a. 1633 – Auto-Tech AST3

- Related Electives:** 1. 7627 – Career Exploration

COURSE TITLE:	Auto-Tech MLR1/Auto-Tech MLR2 (2 period block)
Course Numbers: 162310 163120	This course is the first of a two-year program in Automotive Technology. Units: automotive electrical systems, theory and operation of brake systems, fundamentals of steering and suspension systems, basic engine concept, engine performance, climate controls, standard and automatic transmissions, computerized data systems, and computer operations related to automotive technology. #1 and #2 Completer Courses
Grade Level: 11-12	
Graduation Credit: 2 Electives	
COURSE TITLE:	Auto-Tech MLR3/Auto-Tech MLR4/Auto-Tech AST3 (3 pd block)
Course Numbers: 162510 163720 163310 163320	This class is the second year of Automotive Technology. Emphasis will be on obtaining "ASE" technician certification, CFC air-conditioning certification, and the West Virginia State Inspection Licensure. Units: computerized engine controls, heating & air conditioning, engine performance, computerized wheel alignments, suspension systems, antilock brakes, manual drive trains, front wheel drive systems, electrical/electronic systems, fuel injection, and electronic analyzers. #3 and #4 Completer Courses
Grade Level: 12	
Graduation Credit: 3 Electives	
	Duration: 2 semesters Prerequisite: Auto-Tech MLR 1/Auto-Tech MLR 2





BROADCASTING TECHNOLOGY



WJMH

Available Credentials/Clubs: Skills USA

Completer Courses:

- 1. 1681 - Fundamentals of Broadcasting**
- 2. 1683 - Radio Broadcasting Presentations**
- 3. 1685 - Television Production Applications**
- 4. 1689 - Producing Live TV**

Related Electives:

- 1. 1684 - Video Editing**
- 2. 2421 - Communication Systems**

COURSE TITLE:	Fundamentals of Broadcasting
Course Numbers: 168110 168120	This course will introduce students to the basic fundamentals needed to support broadcast managers in the production and broadcasting of materials and programs. Students will become familiar with the equipment, processes, and procedures used in producing and making of radio and television broadcasts. Duration: 2 semesters Prerequisite: Teacher recommendation
Grade Level: 11	
Graduation Credit: 1 Elective	
COURSE TITLE:	Radio Broadcasting Presentations
Course Numbers: 168310 168320	This course will provide students with the knowledge to perform, either in a live or mock setting, a radio broadcast. Duration: 2 semesters Prerequisite: Teacher recommendation
Grade Level: 11	
Graduation Credit: 1 Elective	
COURSE TITLE:	Television Production Applications
Course Numbers: 168510 168520	This course will provide students with an entry-level understanding of the components of television broadcasting. Duration: 2 semesters Prerequisite: Teacher recommendation
Grade Level: 12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Producing Live TV
Course Numbers: 168910 168920	This course is designed to prepare students for entry-level positions in the television industry. Students will be introduced to the requirements for producing live television news and other live programs including talk shows, game shows, variety shows and sports events. Because this is a course where students rely on other students for success of the broadcast, each student must attend class on a consistent basis. Any student not meeting the attendance requirement is subject to removal from the class. Duration: 2 semesters Prerequisite: Teacher recommendation
Grade Level: 12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Video Editing
Course Numbers: 168410 168420	This full-year course is designed to train students in advanced-level video editing with nonlinear editors. Included in instruction are video effects, keying, color correction and other higher-level processes. The student will explore how packaging and imaging of a product impacts the sales of videos. Duration: 2 semesters Prerequisite: Fundamentals of Broadcasting and teacher recommendation
Grade Level: 11-12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Communication Systems (Semester two)
Course Numbers: 242100	This course provides opportunities for students to study and apply technological systems, concepts and processes in communications technology. Group and individual activities engage students in creating ideas, developing innovations and implementing design solutions as they relate to communication systems. Duration: 1 semester
Grade Level: 9-12	
Graduation Credit: ½ Elc	
	CTE Elective

BUSINESS

Available Credentials/Clubs: Microsoft Office Specialist, Word, Excel, PowerPoint, Access, OSHA 10, WV Welcome Hospitality Certification, FBLA, DECA



Monarch Industries



Accounting and Finance

1. 1401 - Accounting Principles I
2. 1403 - Accounting Principles II
3. 1451 - Personal Finance

Choose one of the following courses:

- a. 1439 - Business and Marketing Essentials
- b. 1411 - Business Computer Applications I
- c. 1413 - Business Computer Applications II
- d. 1417 - Business Law and Ethics

Related Electives: 1. 1445 - Management and Entrepreneurship



Management and Administrative Support

1. 1439 - Business & Marketing Essentials
2. 1411 - Business Computer Applications I

Choose two of the following courses:

- a. 1413 - Business Computer Applications II
- d. 1401 - Accounting Principles I
- e. 1451 - Personal Finance

Related Electives: 1. 1445 - Management and Entrepreneurship
2. 1417 - Business Law and Ethics



Marketing Management

1. 0422 - Marketing Principles
2. 0425 - Marketing Applications

Choose two credits from the following courses:

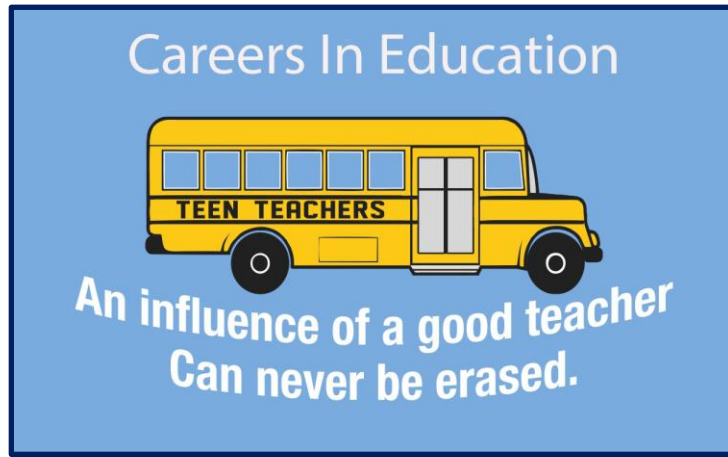
- a. 0437 - Hospitality and Tourism Marketing (1 credit)
- b. 1401 - Accounting Principles I (1 credit)
- c. 1439 - Business and Marketing Essentials (1 credit)
- d. 1455 - Web Page Publishing (1/2 credit)
- e. 1431 - Digital Imaging /Multimedia I (1/2 credit)

Related Electives: 1. 1445 - Management and Entrepreneurship

COURSE TITLE:	Accounting Principles I
Course Numbers: 1401E1 1401E2	Content emphasizes the introduction of basic accounting principles, procedures, and techniques involved in recording and classifying all transactions and financial statements. Both paper and electronic accounting practices are covered. This is one of the required courses for the Accounting concentration. Duration: 2 semesters
Grade Level: 10-12	
Graduation Credit: 1 Elective	
EDGE Credit eligible	
	CTE Elective
COURSE TITLE:	Accounting Principles II
Course Numbers: 1403E1	In this class, training situations provide opportunities for the student to master the basic skills necessary to perform accounting activities, prepare for on-the-job training, and

<p>1403E2</p> <p>Grade Level: 11-12</p> <p>Graduation Credit: 1 Elective</p> <p>EDGE Credit eligible</p>	<p>function effectively in college accounting courses. One of the required courses for the Finance/Accounting concentration.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Accounting I</p>
COURSE TITLE:	Personal Finance
<p>Course Numbers: 1451E1 1451E2</p> <p>Grade Level: 10-12</p> <p>Graduation Credit: 1 Elective</p>	<p>This course is designed to help students understand the impact of individual choices on occupational goals and future earning potential. Students will design personal and household budgets, simulate use of checking and saving accounts, demonstrate knowledge of finance, debt, and credit management and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.</p> <p>Duration: 2 semesters</p> <p style="text-align: right;">CTE Elective</p>
COURSE TITLE:	Business and Marketing Essentials
<p>Course Numbers: 1439E1 1439E2</p> <p>Grade Level: 10-12</p> <p>Graduation Credit: 1 Elective</p> <p>EDGE Credit eligible</p>	<p>This course is designed to provide the student with a working knowledge of the business environment. This course teaches students different forms of business and activities involved with operating a business. The course will provide a better understanding of what businesses will expect of their employees. This class is required for the Management and Accounting concentrations. (If majoring in the Management or Accounting concentrations, this class should be taken before Business Management and Entrepreneurship). This course is EDGE credit eligible.</p> <p>Duration: 2 semesters</p> <p style="text-align: right;">CTE Elective</p>
COURSE TITLE:	Business Computer Applications I
<p>Course Numbers: 1411E1 1411E2</p> <p>Grade Level: 10-12</p> <p>Graduation Credit: 1 Elective</p> <p>EDGE Credit eligible</p>	<p>The curriculum within the Microsoft IT Academy will offer students learning solutions for IT skills training and certification as well as technology essentials for professionals. Students will develop skills that employers demand within the Microsoft Word and PowerPoint Programs. Upon completion of the course, students will complete the Microsoft Office Specialist Exams for Word 2013 and Excel 2013.</p> <p>Duration: 2 semesters</p> <p style="text-align: right;">CTE Elective</p>
	Business Computer Applications II
<p>Course Numbers: 1413E1 1413E2</p> <p>Grade Level: 11-12</p> <p>Graduation Credit: 1 Elective</p> <p>EDGE Credit eligible</p>	<p>The curriculum within the Microsoft IT Academy will offer students learning solutions for IT skills training and certification as well as technology essentials for professionals. Students will develop skills that employers demand within the Microsoft Access and Excel Programs. Upon completion of the course, students will complete the Microsoft Office Specialist Exams for Access 2013 and PowerPoint 2013.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Business Computer Applications I recommended</p>
COURSE TITLE:	Marketing Principles
<p>Course Numbers: 0422E1 0422E2</p> <p>Grade Level: 10-11</p> <p>Graduation Credit: 1 Elective</p> <p>EDGE Credit eligible</p>	<p>This course provides students with basic knowledge and skills related to marketing occupations. Units of study include marketing principles, human relations, marketing math, economic principles, school store operation, cash handling, sales process, and job-seeking and keeping skills. Students are strongly encouraged to take Marketing Principles in grade 10 or 11. This is one of the required classes for the Marketing concentration.</p> <p>Duration: 2 semesters</p> <p style="text-align: right;">CTE Elective</p>

COURSE TITLE:	Marketing Applications
Course Numbers: 0425E1 0425E2	Marketing Applications builds on skills provided in Marketing Principles to provide students with entry-level employment skills. Units of study include promotion, pricing, finance, distribution, risk management, purchasing, marketing, research and entrepreneurship. This is one of the required classes for the Marketing concentration. Duration: 2 semesters Prerequisite: Marketing Principles
Grade Level: 12	
Graduation Credit: 1 Elective	
EDGE Credit eligible	
COURSE TITLE:	Management and Entrepreneurship Dual Credit
Course Numbers: 14451X 14452X	This class emphasizes management skills on the personal and corporate level and focuses on what managers do, how they do it, and what factors will make them successful in leading people or businesses. This class is required for the Management and Marketing concentrations. This course is EDGE credit eligible. Duration: 2 semesters Prerequisite: Introduction to Business and Marketing Essentials
Grade Level: 11-12	
Graduation Credit: 1 Elective	
College Credit: WLU EDGE Credit eligible	
COURSE TITLE:	Business Law and Ethics - Honors
Course Numbers: 14171H 14172H	Business law provides students with information on the basic fundamentals of contracts, credit, employment, insurance, commercial paper, property and bailments. The legal concepts for this class will provide students the necessary legal knowledge that they will encounter in their everyday lives. Duration: 2 semesters
Grade Level: 11-12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Hospitality and Tourism Marketing
Course Numbers: 043710 043720	Hospitality and Tourism Marketing This course is designed to develop student understanding and skills in such areas as the hotel, restaurant or travel and tourism industry. Students discover industry trends and career opportunities that abound in the following industries: lodging, food and beverage, airline, cruise line, travel agencies, event planners and recreation. This course allows students to be actively engaged in learning how to create successful promotional mix strategies: advertising, publicity, sales promotion and personal selling. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Students will participate in planning various school events and activities in order to receive hands on experience in the hospitality industry. Duration: 2 semesters
Grade Level: 10-12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Digital Imaging/Multimedia I (Semester One)
Course Numbers: 143110	This course will introduce students to the basics of producing digital images for multimedia purposes. Students will explore various methods of producing images through hands-on activities and experiences which will include operating a digital camera, using imaging software to improve photos or to create special effects, creating simple animations, manipulating video images, and producing multimedia images. Duration: 1 semester
Grade Level: 9-12	
Graduation Credit: ½ Fine Arts	
COURSE TITLE:	Web Page Publishing (Semester Two)
Course Numbers: 145520	This is a 1 semester class that will introduce students to the basic web page design concepts and provide practice in creating web sites. Students will explore various applications in web page design through hands-on activities and experiences which may include: 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 HTML. Duration: 1 semester
Grade Level: 10-12	
Graduation Credit: ½ Elective	



CAREERS IN EDUCATION

Available Credentials/Clubs: Educator's Rising

- Completer Courses:**
- 1. 1301 - Foundations in Education**
 - 2. 1302 - Student Learning, Development, and Diversity**
 - 3. 1304 - Secondary Literacy Awareness**
 - 4. 1135 - Teacher Preparation Experience**

<p>COURSE TITLE:</p>	<p>Foundations in Education/ Student Learning, Development, and Diversity (2 period block)</p>
<p>Course Numbers: 1301E1/E2 1302E1/E2</p> <p>Grade Level: 11-12</p> <p>Graduation Credit: 2 Elective</p> <p>EDGE Credit eligible</p>	<p>This course is designed to introduce the history, development, organization, and practices of preschool, elementary, and secondary education. In addition to classroom training, students will participate in field experiences at local elementary, middle, and high schools. Students also gain the professional or skilled knowledge and skills necessary to begin a career in the education profession. These courses are designed to focus on the various physical, cognitive, social, emotional and moral development, environments and social institutions, family life, demographics, and culture influencing human growth and development. This course also provides information and activities for guiding behavior and meeting the needs of special age groups. Students will utilize problem solving techniques and participate in hands-on activities. Students are encouraged to become active members of the student organization, Future Educators of Association (FEA), a national student organization for those enrolled in Careers in Education.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Teacher recommendation</p>
<p>COURSE TITLE:</p>	<p>Secondary Literacy Awareness/Teacher Preparation Experience (2 period block)</p>
<p>Course Numbers: 130410/20 1135E1/E2</p> <p>Grade Level: 11-12</p> <p>Graduation Credit: 2 Elective</p> <p>1135E1/E2: EDGE Credit eligible</p>	<p>This course examines strategies for learning from text, studying different types of textual materials, monitoring learning, and integrating oral and written discourse. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the Educators Rising career technical student organization. These courses are designed to provide content related to preparation and credentials and provide students with the opportunity to gain the professional or skilled knowledge and skills necessary in beginning a career in the education profession in a real world classroom. Extensive observation and actual classroom teaching experience in an approved school setting is a part of this course. It is the expectation of this course that students will be prepared to pass the Praxis I Test: Pre-Professional Skills Tests (PPST®).</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Teacher recommendation</p>



THERAPEUTIC SERVICES

Available Credentials/Clubs: CNA, CPR, HOSA

Completer Courses:

- 1. 0711 - Foundations of Health Science**
- 2. 0715 - Advanced Principles of Health Science**
- 3. 0789 - Clinical Specialty I**
- 4. 0790 - Clinical Specialty II**
 - a. 07210X – Medical Terminology**

Related Electives: 1. 0700 – Exploring Health Professions

COURSE TITLE:	Foundations of Health Science/Advanced Principles of Health Sciences (2 period block)
<p>Course Numbers: 071110 071520</p> <p>Grade Level: 11</p> <p>Graduation Credit: 2 Electives</p>	<p>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 HIPPA/Data Privacy, and health care safety.</p> <p>Duration: 2 semesters</p>
COURSE TITLE:	Clinical Specialty I/Clinical Specialty II/Med. Term (3 pd block)
<p>Course Numbers: 078910 079020 07210X</p> <p>Grade Level: 12</p> <p>Graduation Credit: 3 Electives</p> <p>07210x: EDGE Credit</p>	<p>These courses are designed to allow the student to choose career work-based experiences from a list of specializations provided by the instructor. In the first semester, students will volunteer as Nursing Assistants at Good Shepherd Nursing Home. Upon completion of the volunteer work, the students are eligible to become Certified Nursing Assistants after passing the standardized test.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Successful completion of Foundations of Health Science and Advanced Principles of Health Sciences</p>
COURSE TITLE:	Exploring Health Professions
<p>Course Numbers: 070000</p> <p>Grade Level: 10</p> <p>Graduation Credit: ½ Elective</p>	<p>This semester long course is designed to introduce students to the various professions associated with health care and health care providers.</p> <p>Duration: 1 semester</p> <p style="text-align: right;">CTE Elective</p>





COLLISION REPAIR TECHNOLOGY



Available Credentials/Clubs: ASE, OSHA 10, Skills USA

- Completer Courses:**
1. 1671 - Fundamentals of Collision Repair Technology
 2. 1675 - Nonstructural Analysis and Damage Repair
 3. 1677 - Structural Analysis and Damage Repair
 4. 1679 – Surface Preparation and Refinishing
 - a. 1676 – Custom Finishing Processes

Related Electives: 7627 – Career Exploration

COURSE TITLE:	Fundamentals of Collision Repair Technology/Nonstructural Analysis and Damage Repair (2 period block)
Course Numbers: 167110 167520	First course of two-year program to prepare students for a career in Auto Body Technology. Units: Non-structural analysis and damage repair, structural analysis, surface preparation and safety precautions.
Grade Level: 11-12	Duration: 2 semesters
Graduation Credit: 2 Electives	
COURSE TITLE:	Structural Analysis and Damage Repair/Surface Preparation and Refinishing/Custom Finishing Processes (3 period block)
Course Numbers: 167710 167920 167610/20	Second year of Auto Body Technology. Units: Painting/refinishing, structural analysis and damage repair, mechanical and electrical components, plastics, and adhesives.
Grade Level: 12	Duration: 2 semesters
Graduation Credit: 3 Electives	Prerequisite: Fundamentals of Collision Repair Technology and Nonstructural Analysis and Damage Repair



CONSTRUCTION TECHNOLOGY

COURSE TITLE:	Construction Systems (Construction I)
Course Numbers: 242410 242420	This course provides opportunities for students to study and apply technological systems, concepts, and processes as they relate to construction technology. Topics range from how construction meets the needs of society to basic construction techniques. Safety instruction is integrated into all activities.
Grade Level: 9-12	Duration: 2 semesters
Graduation Credit: 1 Elective	CTE Elective
COURSE TITLE:	Foundations of Engineering (Construction II)
Course Numbers: 243610 243620	This course provides opportunities for students to study and apply basic principles of materials, mechanisms, structures and their uses to solve a variety of complex technical challenges. Safety instruction is integrated into all activities.
Grade Level: 10-12	Duration: 2 semesters
Graduation Credit: 1 Elective	Prerequisite: Construction Systems and instructor permission
COURSE TITLE:	Fundamentals of Millwork and Cabinetmaking (Construction III)
Course Numbers: 245110 245120	This course introduces students to the fundamentals of millwork and cabinetmaking. Emphasis will also be placed on career opportunities, job seeking skills, and professional ethics. Safety instruction is integrated into all activities.
Grade Level: 11-12	Duration: 2 semesters
Graduation Credit: 1 Elective	Prerequisite: Foundations of Engineering and instructor permission



COMPUTER AIDED DRAFTING AND DESIGN

Available Credentials/Clubs: Skills USA, OSHA 10

Completer Courses:

1. 1729 - Fundamentals of Drafting
2. 1727 - Drafting Techniques
3. 1725 - Mechanical Drafting
4. 1721 - Architectural Drafting

Related Electives: 1. 7627 – Career Exploration

COURSE TITLE:	Fundamentals of Drafting/Drafting Techniques (2 period block)
Course Numbers: 1729E1 1727E2	This is the first of four courses to complete the Conventional Computer Aided Drafting (CAD) Program. This course will introduce students to the basic fundamentals of drafting and geometric construction. Students will become familiar with drafting equipment and methodology used in industry. This course will provide basic understanding of drafting techniques necessary to allow students to progress to CAD. EDGE credit is available. This course will introduce students to techniques used in advanced orthographic projection, including dimensioning, sectioning, auxiliary views, revolutions, pattern development, and advanced CAD. Duration: 2 semesters Prerequisite: Algebra and Geometry suggested
Grade Level: 11	
Graduation Credit: 2 Electives	
COURSE TITLE:	Mechanical Drafting/Architectural Drafting (2 period block)
Course Numbers: 1725E1 1721E2	This course will introduce students to mechanical drafting, including the application of dimensioning techniques, assembly and detail drawings, pictorial views, and common threads and fasteners. This course will provide the training to apply these applications using a CAD system. EDGE Credit Available (3 credit hours) This course will provide students the opportunity to specialize in architectural drawing and design, including plumbing, electrical, and HVAC systems. EDGE Credit Available (3 credit hours) Duration: 2 semesters Prerequisite: Fundamentals of Drafting and Drafting Techniques
Grade Level: 12	
Graduation Credit: 2 Electives	





PROJECT LEAD THE WAY (PLTW)

Students interested in completing a program in PLTW are encouraged to take one course each year in grades 9-12.

Available Credentials/Clubs: AP+PLTW Credentials

Pre-Engineering

- 1. 2461 - Introduction to Engineering**
 - 2. 2463 - Principles of Engineering**
 - 4. 2464 - Engineering Design and Development**
- Choose one of the following third year courses:**
- a. 2466 - Civil Engineering and Architecture**
 - b. 2806 - Computer Science Principles AP
(Description under Computer Science)**

Biomedical Science

- 1. 0727 - Principles of Biomedical Science**
- 2. 0766 - Human Body Systems**
- 3. 0780 - Medical Interventions**
- 4. 0795 - Biomedical Innovation**

Computer Science

- 1. 1408 - Computer Science Essentials**
- 2. 2806 - Computer Science Principles AP**
- 3. 2801 - Computer Science AP**
- 4. 1418 - Cybersecurity**

Pre-Engineering

Potential College Credit awarded upon completion of the Pre-Engineering Pathway. Portfolio and fee to post-secondary institution required.

COURSE TITLE:	Intro to Engineering (PLTW PATHWAY PRE-ENGINEERING)
Course Numbers: 24611H 24612H	Project Lead the Way engineering students engage in open-ended problem solving, learn and apply the engineering design process, and use the same industry leading technology and software as are used in the world's top companies. Students investigate topics such as aerodynamics and astronautics, biological engineering, environmental engineering, digital electronics and circuit design that give them the opportunity to learn about different engineering disciplines before beginning post-secondary education. Duration: 2 semesters CTE Elective
Grade Level: 9-12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Principles of Engineering (PLTW PATHWAY PRE-ENGINEERING)
Course Numbers: 24631H 24632H	Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. <u>THIS COURSE CAN BE A 3RD YEAR LAB SCIENCE.</u> Duration: 2 semesters Prerequisite: Students must have passed Intro to Engineering
Grade Level: 9-12	
Graduation Credit: 1 Science	
COURSE TITLE:	Civil Engineering and Architecture (PLTW PATHWAY PRE-ENGINEERING)
Course Numbers: 24661H 24662H	Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software. In addition, as students work in teams to design and test solutions, they're empowered develop in-demand, transportable skills like collaboration, critical thinking, and communication. Prerequisite: Students must have passed Intro to Engineering. Duration: 2 semesters
Grade Level: 10-12	
Graduation Credit: 1 Elective	

COURSE TITLE:	Engineering Design and Development (PLTW PATHWAY PRE-ENGINEERING CAPSTONE)
Course Numbers: 24641H 24642H	The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career.
Grade Level: 11-12	
Graduation Credit: 1 Elective	
	Duration: 2 semesters Prerequisite: Students must have passed Intro to Engineering, POE, and a third course engineering elective.

Biomedical Science

COURSE TITLE:	Principles of Biomedical Science (PLTW PATHWAY BIOMEDICAL)
Course Numbers: 07271H 07272H	In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.
Grade Level: 9-12	
Graduation Credit: 1 Elective	
	Duration: 2 semesters CTE Elective
COURSE TITLE:	Human Body Systems (PLTW PATHWAY BIOMEDICAL)
Course Numbers: 07661H 07662H	In this second course for Biomedical, Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.. <u>THIS COURSE CAN BE A 3RD YEAR LAB SCIENCE.</u>
Grade Level: 10-12	
Graduation Credit: 1 Science	
	Duration: 2 semesters Prerequisite: Students must have passed Principles of Biomedical Science.
COURSE TITLE:	Medical Interventions (PLTW PATHWAY BIOMEDICAL)
Course Numbers: 07801H 07802H	Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.
Grade Level: 9-12	
Graduation Credit: 1 Elective	
	Duration: 2 semesters Prerequisite: Students must have passed Human Body Systems.
COURSE TITLE:	Biomedical Innovation (PLTW PATHWAY BIOMEDICAL)
Course Numbers: 07951H 07952H	In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent project with a mentor or advisor from a university, medical facility, or research institution.
Grade Level: 9-12	
Graduation Credit: 1 Elective	
	Duration: 2 semesters Prerequisite: Students must have passed Medical Interventions.

Computer Science

COURSE TITLE:	Computer Science Essentials (PLTW PATHWAY CS)
<p>Course Numbers: 14081H 14082H</p> <p>Grade Level: 9-12</p> <p>Graduation Credit: 1 Elective</p>	<p>Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science is an optional starting point for the PLTW Computer Science program. Students work in teams to create apps for mobile devices using MIT App Inventor®. They explore the impact of computing in society and build skills in digital citizenship and cybersecurity. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis. In addition, students transfer the understanding of programming gained in App Inventor to text-based programming in Python® and apply their knowledge to create algorithms for games of chance and strategy.</p> <p>Duration: 2 semesters CTE Elective</p>
COURSE TITLE:	Computer Science Principles AP (PLTW PATHWAY CS)
<p>Course Numbers: 28061A 28062A</p> <p>Grade Level: 9-12</p> <p>Graduation Credit: 1 Elective</p>	<p>Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. PLTW is recognized by the College Board as an endorsed provider of curriculum and professional development for AP® Computer Science Principles (AP CSP). <u>This course can be a third course elective for the engineering pathway.</u></p> <p>Duration: 2 semesters</p> <p>Prerequisite: Students must have passed Computer Science Essentials.</p>
COURSE TITLE:	Computer Science Applications AP (PLTW PATHWAY CS)
<p>Course Numbers: 28011A 28012A</p> <p>Grade Level: 10-12</p> <p>Graduation Credit: 1 Elective</p>	<p>Computer Science A focuses on further developing computational-thinking skills through the medium of Android™ App development for mobile platforms. The course utilizes industry-standard tools such as Android Studio, Java™ programming language, XML, and device emulators. Students collaborate to create original solutions to problems of their own choosing by designing and implementing user interfaces and Web-based databases. This course aligns with the AP CS A course.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Students must have passed Computer Science Principles AP or Principles of Engineering.</p>
COURSE TITLE:	Cybersecurity (PLTW PATHWAY CS)
<p>Course Numbers: 14181H 14182H</p> <p>Grade Level: 9-12</p> <p>Graduation Credit: 1 Elective</p>	<p>Cybersecurity introduces the tools and concepts of cybersecurity and encourages students to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely.</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Students must have passed Computer Science AP.</p>



PROSTART Restaurant Management

**Available Credentials/Clubs: ServSafe, Food Handler's Card,
WV Welcome Hospitality Certification, NRAEF, Skills USA, FCCLA**



- Completer Courses:**
1. 1013 - Restaurant and Culinary Foundations
 2. 1014 - Restaurant Management Essentials
 3. 1019 - Advanced Principles in Food Production
 4. 1020 - Restaurant Professional

- Related Electives:**
1. 1210 - Hospitality and Tourism Internship
 2. 1018 - Baking and Pastry Applications

COURSE TITLE:	Restaurant and Culinary Foundations/Restaurant Management Essentials (PROSTART I) (2 period block)
Course Numbers: 1013E1 1014E2	This class is the first of a two-year program designed to develop entry level skills for the Food Service Industry. The student will study the fundamentals of food technology, basic food production, quick service, sanitation, safety and dining room customer service. Duration: 2 semesters
Grade Levels: 11	
Graduation Credit: 2 Elective	
COURSE TITLE:	Advanced Principles in Food Production/Restaurant Professional (PROSTART II) (2 period block)
Course Numbers: 1019E1 1020E2	This is the second of a two-year program designed to prepare a student for a food service occupation. It emphasizes professional food services, dining room service and work experiences in the food service industry. Duration: 2 semesters Prerequisite: Restaurant and Culinary Foundations and Restaurant Management Essentials (PROSTART I)
Grade Level: 12	
Graduation Credit: 2 Elective	
COURSE TITLE:	Hospitality and Tourism Internship
Course Numbers: 121010 121020	This course provides work experiences in the food service industry. Students must be employed in food service industry and must submit a letter from current employer verifying employment. Duration: 2 semesters Prerequisite: Must have been enrolled in Advanced Principles in Food Production/Restaurant Professional (PROSTART II).
Grade Level: 12	
Graduation Credit: 1 Elective	
COURSE TITLE:	Baking and Pastry Applications
Course Numbers: 101800	Baking and Pastry is an elective course which focuses on weights, measures, and general baking, classifications, handling and storage of ingredients, safety and handling, yeast raised dough products, cakes, cookies, batters, breads, biscuits, muffins, pies, and special dessert preparation. 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. Duration 1 semester
Grade Level: 9-12	
Graduation Credit: ½ Elective	
	CTE Elective



FAMILY and CONSUMER SCIENCE

COURSE TITLE:	Life
Course Numbers: 092910 092920	This class is offered as a one-credit class. Students examine areas of Foods and Nutrition, Parenting, Life Relationships, Financial Literacy, Personal Wellness and Resource Management.
Grade Level: 9-10	Duration: 2 semesters
Graduation Credit: 1 Elective	
	CTE Elective
COURSE TITLE:	Parenting and Strong Families
Course Numbers: 090300	This class helps students evaluate readiness for parenting while examining appropriate parenting and strong family practices. Students have an opportunity to experience parenting through the Real Care Baby Project, a baby simulation that requires round the clock care of a newborn. Class size is limited to 18.
Grade Level: 10-12	Duration: 1 semester
Graduation Credit: ½ Elective	
	CTE Elective
COURSE TITLE:	Food Preparation
Course Number: 095100	Food Preparation emphasizes skill development in the selection, preparation, storing and serving of food, management of resources to meet individual and family nutritional needs and optimal use of food resources, the principles of nutrition and the relationship of nutrition to health and well-being. Class size is 18. Good attendance is used to select students.
Grade Level: 10-12	Duration: 1 semester
Graduation Credit: ½ Elective	
	CTE Elective



HOME MECHANICS

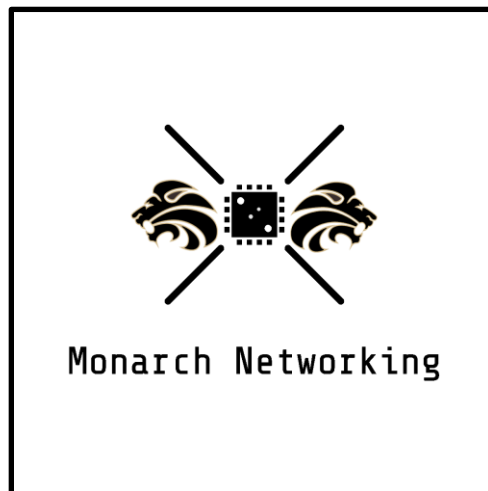
COURSE TITLE:	Mechanical Service Systems (Home Mechanics I)
Course Numbers: 244510 244520	This class will include emphasis on general maintenance of buildings, equipment, and furnishings. Students will be introduced to the basic principles of mechanisms, electricity, and fluidics involved in the support, maintenance, design, and installation of all types of mechanical and electrical devices. Safety instruction is integrated into all activities.
Grade Level: 9-12	Duration: 2 semesters
Graduation Credit: 1 Elective	
	CTE Elective
COURSE TITLE:	Manufacturing Systems (Home Mechanics II)
Course Numbers: 244210 244220	This class will introduce students to the basic elements of the manufacturing industry. It provides opportunities for students to study and apply technological systems, concepts and processes in the operation of a manufacturing enterprise. Safety instruction is integrated into all activities.
Grade Level: 10-12	Duration: 2 semesters
Graduation Credit: 1 Elective	Prerequisite: Mechanical Services Systems and instructor permission
COURSE TITLE:	Intro to Millwork (Home Mechanics III)
Course Numbers: 212210 212220	This course introduces the student to the knowledge base and technical skills for all courses in the Millwork and Cabinetmaking concentration. Areas of study include career opportunities, safety, measurement, blue prints, drawings, plans, hand tools and power tools. Emphasis will be placed on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities.
Grade Level: 11-12	Duration: 2 semesters
Graduation Credit: 1 Elective	Prerequisite: Manufacturing Systems and instructor permission

 **COMPUTER SYSTEMS REPAIR TECHNOLOGY**

Available Credentials/Clubs: Skills USA, Microsoft A+ Credentials

- Completer Courses:**
1. 1664 - CompTIA A+ 220-901
 2. 1665 - CompTIA A+ 220-902
 3. 1694 - Networking + N10-006
 4. 1695 - Server +

<p>COURSE TITLE:</p>	<p>CompTIA A+ 220-901/CompTIA A+ 220-902 (2 period block)</p>
<p>Course Numbers: 166410 166520</p> <p>Grade Level: 10-12</p> <p>Graduation Credit: 2 Electives</p>	<p>Students will learn to build, maintain, and troubleshoot a computer's hardware including motherboards, power supplies, memory, storage systems, etc.</p> <p>Students will learn how to install, operate, and troubleshoot various operating systems including Windows 9X, Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8 and various distributions of Linux. #1 and #2 Completer Courses</p> <p>Duration: 2 semesters</p> <p>Prerequisite: Business Computer Applications I</p>
<p>COURSE TITLE:</p>	<p>Networking + N10-006/Server+ (2 period block)</p>
<p>Course Numbers: 169410 169520</p> <p>Grade Level: 12</p> <p>Graduation Credit: 2 Electives</p>	<p>This ARIES class is a full semester of professional IT training that builds a solid foundation of network administration skills, protocols, the OSI module, LAN design, cabling and connectors, and troubleshooting and maintenance for non-vendor-specific environments. Students will troubleshoot and repair computers as part of regular class work.</p> <p>Areas of study include computer hardware, data representation, operating system, utility, productivity software, communications and networks, and the Internet. Emphasis will be placed on personal and professional ethics, and students will explore a variety of career opportunities. #3 and #4 Completer Courses</p> <p>Duration: 2 semesters</p> <p>Prerequisite: A+ Essentials and A+ Practical Applications</p>





MACHINE TOOL TECHNOLOGY

Available Credentials/Clubs: NIMS, OSHA 10, Skills USA

- Completer Courses:**
1. 1903 - Fundamentals of Machine Tool Technology
 2. 1907 - Machine Tool Operations
 3. 1905 - Fundamentals of Machine Processes
 4. 1909 - Metal Trades Processes and Applications
 - a. 1902 – Machine Tool Technology

COURSE TITLE:	Fundamentals of Machine Tool Technology/Machine Tool Operations (2 period block)
Course Numbers: 190310 190720 Grade Level: 11 Graduation Credit: 2 Electives	This class is the first of a two-year program teaching machine tool technology in units of safety, measurement, basic procedures, machine processes, blueprint reading, various types of math that apply to shop processes, and basic computerized machining processes. #1 and #2 Completer Courses Duration: 2 semesters
COURSE TITLE:	Fundamentals of Machine Processes/Metal Trades Processes and Applications/Machine Tool Technology (3 period block)
Course Numbers: 190510 190920 190210 190220 Grade Level: 12 Graduation Credit: 3 Electives	The second year of Machine Tool Technology emphasizes advanced machining processes on manual and computerized machinery. #3 and #4 Completer Courses Duration: 2 semesters Prerequisite: Fundamentals of Machine Tool Technology and Machine Tool Operations.

 **WELDING**

Available Credentials/Clubs: Skills USA, WV State Welding Certificate, OSHA 10

- Completer Courses:**
1. 1862 - Welding I
 2. 1863 - Welding II
 3. 1864 - Welding III
 4. 1865 - Welding IV
 - a. Blueprint Reading and Metallurgy

Related Electives: 1. 7627 – Career Exploration

COURSE TITLE:	Welding I/Welding II (2 period block)
Course Numbers: 1862E1 1863E2	First of two-year program in welding technology. Units: Intro to welding, oxy-fuel cutting and welding, shielded metal arc welding and gas metal arc welding, and blueprint reading. #1 and #2 Completer Courses
Grade Level: 11	Duration: 2 semesters
Graduation Credit: 2 Electives	
COURSE TITLE:	Welding III/Welding IV/Blueprint Reading and Metallurgy (3 period block)
Course Numbers: 1864E1 1865E2 198310 198320	The second year of welding focuses on obtaining a WV State welding certificates on plate and pipe welding using four different welding processes. Additional studies include advanced metallurgy, gas tungsten arc welding, blueprint reading, flux cored, plasma arc and gas metal arc welding. #3 and #4 Completer Courses
Grade Level: 12	Duration: 2 semesters
Graduation Credit: 3 Electives	Prerequisite: Welding I and Welding II



ADDITIONAL COURSES

COURSE TITLE:	Fab Lab
Course Numbers: 762010 762020	Do you want to use state-of-the-art equipment to design, build and test almost anything? Would you like to develop the technological, problem-solving and hands-on skills desired by employers? If your answer is yes, then this course is for you. In Fab Lab, computer-controlled fabrication technologies such as 3D printers, lasers, CNC routers, vinyl cutters and milling machines will be used to transform a product idea into its tangible form. Students will explore many interrelated career fields, including engineering, science, mathematics, art, graphic design, computer aided design (CAD), electronics, and entrepreneurship. General elective credit.
Grade Level: 9-12	
Graduation Credit: 1 Elective	
	Duration: 2 semesters
COURSE TITLE:	SAT Testing Strategies
Course Numbers: 766100	This semester long class is designed to improve students' chances of scoring well on the SAT. The class will be divided into areas to improve student scores on the English, Reading, Composition, Math, and Science sections of the SAT.
Grade Level: 10-11	
Graduation Credit: ½ Elective	
	Duration: 1 semester
COURSE TITLE:	AOC/Career Preparation
Course Numbers: 762901	This class aids students in developing skills in decision making, problem solving and goal setting, critical thinking, logical reasoning, and interpersonal communication and the application of these skills to academic achievement. Each student must enroll in AOC/ Homeroom
Grade Level: 9-12	
Graduation Credit: ¼ credit per year	
	Duration: 2 semesters
COURSE TITLE:	Special Programs Peer Tutor
Course Numbers: 763199	Students who take this course will help students with special needs complete daily classroom activities while increasing socialization and interaction with peers.
Grade Level: 9-12	
Graduation Credit: Non-credit	
	Duration: 1 semester
COURSE TITLE:	Assisted Reading
Course Numbers: 481010 481020	This course is designed to improve student's reading ability. Emphasis and practice is provided using scientifically researched based reading programs. The goal of this course is to provide students with multiple strategies in the five areas of reading through small group instruction and hands on activities. Students will be exposed to nonfiction stories, fiction stories, and informational texts covering all the content areas.
Grade Level: 9-12	
Graduation Credit: 1 Elective	
	Duration: 2 semesters

“We do not remember days, we remember moments.”

**-Cesare Pavese
Italian Poet/ Author**

John Marshall Career Technical Education Application

JMHS SCHEDULE PLANNER

	CORE CLASSES	1st Semester	2nd Semester
1	English/Lang. Arts		
2	Mathematics		
3	Science		
4	Social Studies		
	OTHER REQUIREMENTS		
1	Fine Arts		
2	Physical Education		
3	Health		
	ELECTIVES		
1	#1 Choice		
2	#2 Choice		
3	#3 Choice		
4	#4 Choice		
5	#5 Choice		
6	#6 Choice		
	Total Number of Classes		
	Total Number of Credits		