Williamstown High School

Program of Study

219 W. 5th Street

Williamstown, WV 26187

Phone: 304-375-6751

Fax: 304-375-6191

Dear Students and Parents:

To achieve success and happiness following high school graduation, students must enroll in and complete the appropriate courses of study to prepare either for the World of Work and a career or the next level of education beyond high school. It is imperative that students plan carefully so the program chosen can be completed in an orderly, sequential manner during the customary four years of high school study.

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

Students, along with their parents, in pursuit of future dreams and goals, must work closely with school personnel to design the future. Planning and hard work can make your goals and dreams a reality. Our goal for all students enrolled in Wood County Schools is for each to graduate with the education and skills necessary to 1) pursue higher education, 2) embark upon a successful career, or 3) obtain a satisfying, well-paying job. If we – students, parents, teachers, counselors, and administrators work together, this goal will be achieved!!

Sincerely,

Jason Ward, Principal

Williamstown High School

SCHEDULING INFORMATION

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

The Master Schedule of course offerings is developed based on student needs and requests and the staff provided. Therefore, it is very important that students and parents carefully study the course offerings and choose those that will best meet their needs.

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

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

GENERAL INFORMATION

Dual Credit Courses through WVUP and WSCC and **Advanced Placement** (AP) Courses via WV Virtual School:

The Dual Credit and Advanced Placement Programs offer students the opportunity to take challenging college-level studies while still in high school. Students may earn college credit by successfully completing dual credit courses or AP end-of-course exams. College credit for AP exam scores are determined by the individual college or university. Check college websites/catalogs for specific policies. Highly motivated students are encouraged to take AP courses while in high school. Students who register for these courses should expect an increased amount of work, both in-school and after-school hours, as well as increased complexity of assignments.

- AP and Dual Credit courses are instructed at the collegiate level and students are expected to complete collegiate-level work.
- Students are encouraged to take Honors courses in preparation to succeed in AP and Dual Credit courses.
- AP courses are verified and approved by the College Board.
- The master schedule is based on the number of students requesting a course. For this reason, students will not be able to withdraw from AP or Dual Credit classes after enrollment is completed.
- AP Students must register take the assigned AP test by October of each school year. A fee applies.
- Students receive a weighted grade (i.e., If a student earns a "B" in the course, an "A" is transcribed and factored into his/her GPA.)
- Passing scores on AP tests allow students to receive college credit. Visit https://apstudent.collegeboard.org/creditandplacement/search-credit-policies
- A grade of at least a C is required in each Dual Credit course in order to proceed to the next semester's corresponding course.

In addition to a mandatory GPA requirement, the WVUP math courses have an ACT/SAT minimum score for admission into the college classes. Only dual credit classes approved by Wood County Schools receive a weighted grade. These classes are recommended for the highly motivated, disciplined student, and are offered at a greatly discounted rate.

Virtual AP Classes - Students and parents need to realize these courses are collegiate-level that require self-motivation and time management skills from the student. Failure to complete semester timelines may result in an "F." Students may be placed in a regular course (not weighted) if withdrawn from a virtual school class at the semester. Prior approval must be obtained by the virtual school coordinator as well as the school counselor. Advanced Placement, as well as dual credit classes, will be the only courses weighted to determine class

rank. AP students must successfully complete the entire course and the AP exam to receive the weighted credit. To be eligible to take an Advanced Placement course, a student must meet two of the following criteria:

1. Teacher recommendation by the student's current teacher in that subject area
2. Demonstrated prerequisite knowledge and skills to perform honors work, and
3. Demonstrated exceptional ability and interest through past performance on a nationally recognized test.

Dual Credit Courses taught at WHS through WVUP

Communications 111	Public Speaking	41640X
Communications 112	Speech/Oral Communication	40760X
English 101 **AND** English 131*	English 11	40110X
English 102 **AND** English 132*	English 12	40120X
History 152 **AND** History 153*	US Studies Comprehensive	70120X
Math 126 College Algebra*	Algebra III	30510X
Math 211 Statistics	Probability & Statistics	77450X
Political Science 101 **AND** Political Science 102	Civics	70310X
Psychology 101*	Psychology **OR** Contemporary Studies	73210X 70110X
Sociology 101*	Sociology **OR** Contemporary Studies	73410X 70110X
Communications 111	Public Speaking	41640X
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History 152 **AND** History 153*	US Studies Comprehensive	70120X
Math 126 College Algebra*	Algebra III	30510X
Math 211 Statistics	Probability & Statistics	77450X
Political Science 101 **AND** Political Science 102	Civics	70310X
Psychology 101*	Psychology **OR** Contemporary Studies	73210X 70110X
Sociology 101*	Sociology **OR** Contemporary Studies	73410X 70110X

*Course is taught via Blackboard

CREDIT RECOVERY

Credit recovery opportunities are available through Odysseyware during the school year or summer school.

DISABLED & DISADVANTAGED STUDENTS

Academic and vocational offerings are available to all students including handicapped and disadvantaged individuals. Students with disabilities are placed according to the guidelines in their Individualized Education Plan (IEP). Disabled students are eligible for any class providing they meet the posted prerequisites. See your special education case manager for details when scheduling or creating your plan of study.

DISCLAIMER Information in the Program of Study is as accurate as possible at the time of printing. Changes to WVBOE policies, WV Code, and/or the Wood County Board of Education policies may require revisions of this document at any time.

EARLY GRADUATION REQUIREMENTS

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

A. The student follows a planned educational program which leads to early graduation,

B. The student be accepted by a college or university; and

C. The student's scholastic record is such that a projection for success in college is favorable. With the above framework, students requesting early graduation from Wood County Schools will adhere to the following guidelines:

1. Must have achieved a 3.75 grade point average at the end of the third semester, and maintain a 3.75 grade point average through their fourth semester.

2. Must have received a letter of acceptance from an accredited college or university.

3. Must submit a written letter of intention to the Counseling Office and principal by January 31 of their sophomore year.

4. Along with parents, must have a formal interview with school officials to establish written agreement of the following regulations:

A. The student will continue to be enrolled in the appropriate junior homeroom, and attend functions designated for juniors. (Exception: Student will be permitted to participate in commencement ceremonies).

B. The student will not re-enroll in high school during what would be their normal senior year after having completed all requirements for graduation.

C. The student will not be eligible for consideration as valedictorian or salutatorian since the student's grade point average will not be included in the normal ranking of seniors.

EXTRACURRICULAR ACTIVITIES

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

GENERAL SCHEDULING INFORMATION

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

HONORS CLASSES

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

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

HONOR ROLL

To be considered for the honor roll, a student must be enrolled in four credit classes. Students who obtain a “D” or “F” on their report card are not eligible for the Honor Roll. "A" - 4.00 & Above "B" or better - 3.50 - 3.99 "B" average - 3.00 - 3.49

MASTERY TESTING FOR CREDIT

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

NCAA

All students interested in participating in sports at the collegiate level must register with the NCAA Clearinghouse at the end of the junior year. Visit www.ncaaclearinghouse.net for detailed information and registration materials. Students must pay special attention when choosing classes. Please be advised that Algebra Support, Financial Algebra, Transition Math, Conceptual, Technical, Read180, and PLATO credit-recovery classes are not accepted by NCAA. Check the NCAA website for a complete list of approved Ravenswood High School classes.

PROMISE SCHOLARSHIP

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

1) A 3.0 cumulative GPA

2) A 3.0 core GPA is calculated using all core courses. A complete listing of core courses used to determine Promise Scholarship eligibility is found at http://promisescholarships.org/

3) ACT composite score of 22 and a 20 on all 4 subtests: Reading, English, Math and Science OR SAT composite score of 1100 and a 530 on the Evidenced Based Reading and Writing and a 520 in Math Note: Algebra Support does not count as a math for the Promise Scholarship but is calculated in the core and cumulative GPA. This means that if you take Algebra Support your freshman year, you will need to double up in math one year before you graduate. Also, READ 180 English classes do not count as an English either.

PROMOTION

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

To Grade 10 4 Credits

To Grade 11 10 Credits

To Grade 12 17 Credits

To Graduate 24 Credits

VIRTUAL SCHOOL

The WV Department of Education is offering online courses through virtual schools. To be successful, a student 9 must be self-motivated, have good attendance, have time management skills and have dedicated time to complete the coursework. Most virtual school classes have an increased level of rigor. Also, failure to complete the assignments within the timeline set by the virtual instructor may result in an “F” and removal from the class at the semester. Parents and students need to consider these factors when registering for virtual school classes. If you are working towards NCAA eligibility, be cautious because not all virtual school classes have been approved by NCAA. See your counselor if you have questions. Please contact the WHS librarian who is the virtual school coordinator or visit www.virtualschool.k12.wv.us. The school counselor and librarian/virtual school coordinator must approve the courses prior to enrollment.

WEIGHTED CLASSES

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

WV EDGE - HIGH SCHOOL COURSES FOR COLLEGE CREDIT

Students who are interested in the tech prep curriculum, which leads to a two-year associate degree at WV's community and technical colleges, are encouraged to take advantage of this opportunity to receive college credit at no charge. Please visit the WV Tech Prep website at https://wvde.us/governors-economic-initiatives/student-opportunities/edge-transcript-request/ .

WV INVESTS

WV Invests is a "last -dollar-in" financial aid program designed to cover the cost of basic tuition and fees for certificate or associate degree programs in specific high-demand fields, as determined by the WV Department of Commerce, at a participating WV public two- or four-year instituion. With ¾ jobs in the current economy requiring postsecondary education or training, WV Invest is designed to help more West Virginians earn the credentials needed to land a rewarding career here in WV. An application is required the senior year of high school. Visit www.wvinvests.org . 10

WCS GRADUATION REQUIREMENTS

24 CREDITS REQUIRED

English Language Arts 4 credits English 9 English 10 English 11 English 12 or Transition English Language Arts for Seniors or Dual Credit English 12 *An AP® English course may be substituted for any of the above courses.

Mathematics 4 credits Algebra Support Algebra I Geometry Algebra II Trigonometry/Pre-calculus or Transition Mathematics for Seniors or any other fourth course option. An AP® or Dual Credit Mathematics course may be substituted for an equivalent course or any fourth course option. Science 3 credits Earth and Space Science (Grade 9) Biology (Grade 10) One additional science course or AP® science course.

Social Studies 4 credits World Studies, United States Studies to 1900, US Comprehensive Contemporary Studies, Civics, plus one additional. Dual Credit history classes may be substituted for specific social studies' courses.

Physical Education 1 credit Physical Education 9 and 10

Health 1 credit Health 9 and 10

Fine Arts 1 credit (Visual Arts, Music, Theater, Band, Violin, Vocal Ensemble)

Personalized Electives 6 credits

COURSE DESCRIPTIONS

Please note that some courses listed are only available through the Caperton Center for Applied Technology or the Wood County Technical Center

Accounting Principles I **1401**

This course prepares students with the basic principles of the accounting cycle. Students study the basic principles, concepts, and practices of the accounting cycle including financial statements, banking, payroll, business ownerships and an accounting career orientation.

Advanced Communications I **40210X**

This course focus on the application of written and oral communication skills through a variety of formal and informal experiences. The course is performance-based and emphasizes effective interpersonal and team building skills. Presentations involving technology, research and projects will build problem-solving strategies, critical thinking, and decision making.

Advanced Principles in Food Production **1019**

This course is designed to examine advanced food production, nutrition, and cost control.

Advanced Principles of Health Science **0715**

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.

Agricultural Experience Program **0134**

The Supervised Agricultural Experience program is a hands-on way for students to apply skills learned in the classroom to real world agricultural experiences. With help from agricultural teachers, students develop a project based on one or more categories: entrepreneurship, placement, research & experimentation, and/or exploratory.

Algebra I **3061**

Students in this course will focus on five critical units that deepen and extend understanding of linear and exponential relationships by contrasting them with each other and by applying linear models to data that exhibit a linear trend, and

students engage in methods for analyzing, solving, and using quadratic functions. Students will continue developing mathematical proficiency in a developmentally-appropriate progressions of standards and continuing the skill progressions from previous courses.

Algebra I Honor 30610H

Algebra I Support 3060

Students in this course will review and explore basic skills necessary for the successful completion of Algebra 1. Integer and fraction operations, slope, and lines are among the topics to be covered. The pacing, depth of study, and rigor will be aligned for students who are in Algebra I and may need additional assistance to be successful.

Algebra II 3063

Animal Production & Management 0140

This course is designed to be a core course in the Animal Systems concentration and covers topics on animal restraint, animal management techniques, animal health and welfare, balancing rations, pedigree analysis and entrepreneurship.

AP Calculus AB 3031

Calculus AB is an Advanced Placement curriculum in elementary functions and calculus for students who have successfully completed Pre-Calculus. The major topics include differential and integral calculus. Students in Advanced Placement Calculus are encouraged to take the AP exam.

AP Environmental Science 6221

This course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science.

AP Physics I 6326

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including

rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

Applications for Network 1615

The class gives students knowledge and experience in working with power supplies, motherboard components, RAM, expansion cards, printers, monitors, networking equipment, and other computer hardware in non-vendor-specific environments

Architectural Drafting **1721**

This course will provide students the opportunity to specialize in architectural drawing and design, including plumbing, electrical and HVAC systems. The student will choose one area to do in-depth study during this course.

Art I **3211**

Art I is designed to reinforce and build on knowledge and skills developed by Department of Education's content standards. Experiences in producing two-dimensional and three-dimensional artworks using a variety of media, techniques, and processes are provided. Critical thinking skills are developed through analysis of works both orally and in written form. An understanding of the arts in relation to culture, history, other disciplines, and careers is emphasized.

Art II **3212**

Art II objectives extend the student's artistic skills, critical skills, and concept development through concrete experiences creating, reflecting, and discussing artworks. The exploration of the arts in the context of cultural and historical parameters is included. Connections are examined between visual art and other disciplines. Students work on developing portfolios.

Art III **3213**

Art III builds on previous skills with a more in-depth approach. Art and cultures are explored visually, verbally, and in written form. Various themes and purposes of art forms and their relationship to the total educational process are examined. Art history, criticism, and aesthetics are studied in relationship to individually selected artworks and lead to development of a personal philosophy of art.

Art IV **3214**

Art IV students develop and clarify their philosophy of art through in-depth advanced explorations with media, techniques, and processes. A portfolio reflecting a broad base of knowledge in the arts and in-depth understanding of

personal art forms is developed and refined. Students also take part in planning and installing an exhibition of their works.

Astronomy **6262**

This course is designed to introduce the student to the science of astronomy. The basic content of the class is looking at the history, concepts, and applications of the skills needed to study both astronomy and space exploration. The emphasis is on how this science effects history, physics, and daily life. This class, because of the content, may require attendance at after school activities and fieldtrips.

Automotive Technology AST-1 **1629**

This course will introduce students to the skills, technology, and service of electrical/electronic systems of the automobile. Students will comply with personal and environmental safety practices associated with proper ventilation and the handling, storage, and disposal of chemicals in accordance with local, state, and federal safety and environmental regulations.

Automotive Technology AST-2 **1633**

Automotive Technology AST-4 **1627**

This course will introduce students to the skills, technology, and service of electrical/electronic systems of the automobile.

Automotive Technology MLR-1 **1631**

This course will introduce students to the basic skills in automotive technology/service. Students will become familiar with fundamentals of automotive technology and basic automotive electrical systems.

Automotive Technology MLR-2 **1623**

This course will introduce students to basic engine concepts, skills, technology and service of the automobile.

Automotive Technology MLR-3 **1625**

This course will introduce students to the basic fundamental skills, technology, and service of automotive brake systems. Students will comply with personal and environmental safety practices associated with proper ventilation, handling, storage, and disposal of brake components.

Automotive Technology MLR-4 **1637**

This course will introduce students to the basic fundamental skills, technology, and service of automotive suspension and steering systems.

Baking & Pastry Advanced **1026**

This course will educate students on how to make some of the more intricate products of the industry. It will introduce students to tortes and specialty cakes, petits fours, and plated desserts. This course also will give students some

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

Baking & Pastry Applications **1018**

Baking & Pastry Foundations **1980**

Baking & Pastry I **1024**

This course will educate students on the basics of the industry. This course starts with teaching students about the various ingredients used for baking and pastry arts and how these ingredients react to each other to make products. It will also instruct students on various breads such as quick breads, artisan and yeast breads, and laminated doughs.

Baking & Pastry II **1025**

This course will instruct students on how to make cookies, pies, and cakes. It educates students about the various types of icings and frostings and introduces them to custards, sauces, and creams. This course also teaches students how to make ice cream and gives them some knowledge of how to adapt recipes to meet special dietary needs.

Band I **3611**
Band II **3612**
Band III **3613**
Band IV **3614**

General band courses develop technique for playing brass, woodwind, and percussion instruments and cover a variety of non-specified band literature styles.

Basic Plumbing & Electricity **1803**

Basic Systems Operations **1613**

Begins by covering DOS and Windows operating system basics, gradually progressing to more complete and "field relevant" skill sets.

Biology **6021**

The tenth grade Biology content provides more in-depth studies of the living world and enables students to make sense of emerging research findings and apply those understandings to solving problems. Disciplinary core ideas, science and engineering practices, and crosscutting concepts are intertwined as students 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.

Biology Honors **6021 0H**

This is a more rigorous Biology class for students who desire more in-depth knowledge of the subject.

Building Maintenance & Operations I **1774**

This course introduces the student to the knowledge base and technical skills of the Building Maintenance and Operations industry. Building Maintenance and Operations I begins with the NCCER Core curriculum which is a prerequisite to all Level I completions. The students will complete modules in Basic Safety; Introduction to Construction Math; Introduction to Hand Tools; Introduction to Power Tools; Introduction to Construction Drawings; Basic Rigging; Basic Communication Skills; Basic Employability Skills; and Introduction to Materials Handling. Students will then begin developing skill sets related to the fundamentals of Building Maintenance and Operations such as Site Layout One: Distance Measurement and Leveling; and Introduction to Concrete, Reinforcing Materials and Forms.

Building Maintenance & Operations II **1775**

Building Maintenance and Operations II will continue to build student skill sets in areas such as Handling and Placing Concrete; Introduction to Masonry; and Masonry Units and Installation Techniques. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

Building Maintenance & Operations III **1776**

Building Maintenance and Operations III will continue to build student skill sets in areas of Floor Systems; Wall and Ceiling Framing; Roof Framing; and Roofing Applications. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

Building Maintenance & Operations IV **1777**

Building Maintenance and Operations will continue to build student skill sets in areas of Exterior Finishing; Basic Stair Layout; Electrical Safety; and Residential Electrical Services. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

Business & Marketing Essentials **1439**

This course is designed to develop student understanding and skills in such areas as business law, communication skills, customer relations, economics, emotional intelligence, financial analysis, human resources management, information management, marketing, operations, professional development and strategic management.

Business Computer Applications I: MS Word & MS PowerPoint **1411**

This course is designed to develop student understanding and skills in such areas as applying integrated software to business applications, word processing, spreadsheets, presentations, database applications, internet, and/or personal information programs.

Business Computer Applications II: MS Excel & MS Access **1413**

This course is designed to develop additional student understanding and skills in such areas as the use of software packages in the areas of word processing, spreadsheet, database, internet, and multimedia software.

Carpentry I **1842**

This course introduces the student to the knowledge base and technical skills of the carpentry industry. Carpentry I begins with the NCCER Core curriculum which is a prerequisite to all Level I completions. The students will complete modules in Basic Safety; Introduction to Construction Math; Introduction to Hand Tools; Introduction to Power Tools; Introduction to Construction Drawings; Basic Rigging; Basic Communication Skills; Basic Employability Skills; and Introduction to Materials Handling.

Carpentry II **1843**

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

Carpentry III **1844**

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

Carpentry IV **1845**

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

Ceramics I **3307**

Ceramics I develops an understanding and application of the media, techniques, and processes of clay. Included in the study are hand built and throwing techniques. Processes of making clay, glazing, and firing are taught. Connections are made to culture and history.

Ceramics II **3308**

Students explore cultural exemplars of influential ceramics artists of the past and discuss influences on Art History as well as influences on their own projects. Students self-critique their work and determine how it can be improved. Students learn about the unique aesthetics of functional pottery and how the artist communicates with the end use of the piece. Students learn advanced production techniques such as constructing large forms on the pottery wheel and use of clay extruder for sculptural/functional works.

Chemistry **6031**

Chemistry is an advanced elective course designed for students pursuing Science Technology Engineering Mathematics (STEM) education and careers. Students will develop a deeper understanding of the core concepts of: Structure and Properties of Matter and Chemical Reactions as they prepare for college chemistry requiring a strong mathematical foundation. The chemistry course prepares high school students to explain more in-depth phenomena central not only to the physical sciences, but to life and earth and space sciences as well.

Chemistry Honors 6031 0H

Honors chemistry is a more rigorous Chemistry course for students who desire a greater in-depth knowledge of chemistry. Course work is covered at a more rapid pace with greater emphasis on mathematics. Emphasis is on laboratory experiments, demonstrations, and hands-on activities. Scientific problem solving skills and use of a scientific calculator are required.

Civics **7031**

Civics is designed as a culminating U.S. Studies class that fosters informed citizens essential to the perpetuation of the American Republic. Students learn and utilize knowledge and skills for responsible, participatory citizenship based on a firm understanding of principles and practices of our government coupled with civil rights and responsibilities, sound financial literacy and global awareness. Students investigate what has happened, explore what is happening and predict what will happen to the social, political and economic problems that

beset America and the world using the skills and resources of the past and present centuries.

Clinical Specialty I **0789**

This course is designed to allow the student to choose a career work-based experience from the following specializations: Select 1: Home Health Aide (A) Certified Nursing Assistant (B) Certified Patient Care Technician (C) Certified ECG Technician (D) Certified Health Unit Coordinator (E) Certified Phlebotomy Technician (F)Pre-Pharmacy Technician (G)Veterinary Science Aide (H)Physical Therapy Aide (I) Advanced Health Seminar (J) Family Caregiver (K) Radiology Aide (L) Dental Aide (M) Community Emergency Response Team (N) Direct Care Worker. Upon successful completion of the prerequisite courses in the Health Science Education concentration, students will be provided the opportunity in Clinical Specialty I to participate in a work-based clinical experience. Students choose a health career specialty for in-depth study and must complete a minimum of 25-55 hours in an applicable clinical rotation. Instruction is guided by career-specific content skill sets that must be mastered before students are eligible to attain established credentials and/or industry validation. Within this course, students focus upon employability skills and career development, and apply healthcare information technology and technical skills. Instruction will incorporate project and problem-based healthcare practices and procedures to demonstrate the criticality of these skills. Due to healthcare industry standards, exemplary attendance is mandatory.

Clinical Specialty II **0790**

This course is designed to allow the student to choose a career work-based experience from the following specializations: Select 1: Home Health Aide (A) Certified Nursing Assistant (B) Certified Patient Care Technician (C) Certified ECG Technician (D) Certified Health Unit Coordinator (E) Certified Phlebotomy Technician (F)Pre-Pharmacy Technician (G) Veterinary Science Aide (H) Physical Therapy Aide (I) Advanced Health Seminar (J) Family Caregiver (K) Radiology Aide (L) Dental Aide (M) Community Emergency Response Team (N) Direct Care Worker (O). Upon successful completion of the prerequisite courses in the Health Science Education concentration, students will be provided the opportunity in Clinical Specialty II to participate in a work-based clinical experience. Students choose a health career specialty for in-depth study and must complete a minimum of 25-55 hours in an applicable clinical rotation. Instruction is guided by career-specific content skill sets that must be mastered before students are eligible to attain established credentials and/or industry validation. Due to healthcare industry standards, exemplary attendance is mandatory.

Coding, App & Game Design I **1456**

Coding, App & Game Design II **1457**

Comptia A+ 220-901 **1664**

This course introduces the knowledge required to understand the fundamentals of computer technology, networking and security, and students will acquire the skills needed to identify hardware, peripheral, networking and security components. Content Skill Sets are based on testing objectives for the CompTI A+220801 certification.

Comptia A+ 220-902 **1665**

This course introduces the competencies for an entry-level IT professional who has hands-on experience in the lab or the field. Successful candidates will have the skills required to install, configure, upgrade and maintain PC workstations, the Windows OS and SOHO networks. The successful candidate will utilize troubleshooting techniques and tools to effectively and efficiently resolve PC, OS and network connectivity issues and implement security practices. Job titles in some organizations which are descriptive of the role of this individual may be: Enterprise technician, IT administrator, field service technician, PC or Support technician, ets. Content Skill Sets are based on testing objectives for the CompTIA A+ 220-802 certification.

Computer Construction **1611**

A full year 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.

Computer Integrated Manufacturing **2465**

Computer Integrated manufacturing is a component of the PLTW pre-engineering curriculum. This course will introduce students to principles of robotics and automation and CAD design. The course builds on computer solid modeling skills developed in computer Integrated manufacturing, and Design and Drawing for Production. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing and design analysis are included.

Computer Science & Software Engineering **1410**

Computer science/programming courses provide the background knowledge and skills to construct computer programs in one or more languages, such as cobol, c++, java, and other web programming languages. Initially, students learn to structure, create, document, and debug computer programs. In advanced courses, more emphasis is placed on design, style, clarity, and efficiency. Computer science/programming courses may provide opportunities to apply the learned skills to relevant applications such as modeling, data management, graphics, and text processing.

Contemporary Studies **7011**

Contemporary Studies examines the interactions between the United States and the world from 1914 to present day. The concept of globalization is explored and evaluated through the careful analysis of the interactions (between or among) the United States and other nation states, helping students recognize the interdependencies of the United States and other countries. Students will examine factors that influence changing political and economic relationships and foreign policies between the United States and its world neighbors. The impact of world events on the individual citizen and the reciprocal impact of an individual citizen's actions, in the democratic process, on world events will be emphasized.

Detailing & Interior Parts 1672

hands-on activities to develop an understanding of course concepts.

Drawing **3331**

Students develop basic drawing techniques beginning with basic geometric shapes, still life, two point perspective, nature studies, figure study, and landscape techniques while using media of ink, pencil, and charcoal. Value, contrast, proportion, and texture are also emphasized.

Driver Education **6811**

Driver Education allows students the opportunity to develop safe driving habits and skills through classroom instruction and driving experience in a dual control automobile.

Earth & Space Science 9 **6201**

This ninth grade course builds upon science concepts from middle school by revealing the complexity of Earth's interacting systems, evaluating and using current data to explain Earth's place in the universe and enabling students to relate Earth Science to many aspects of human society. The course focuses on five broad content topics consisting of space systems, history of the Earth, Earth's systems, weather and climate, and human sustainability.

Earth & Space Science Honors **62010H**

Electrical Trades I **1756**

This course introduces the student to the knowledge base and technical skills of the Electrical Trades industry. Electrical Trades I begin with the NCCER Core curriculum which is a prerequisite to all Level I completions. The students will complete modules in Basic Safety; Introduction to Construction math; Introduction to hand tools; Introduction to Power Tools; Introduction to

construction drawings; Basic Rigging; Basic communication skills; Basic Employability skills; and Introduction to material handling.

Electrical Trades II **1757**

Electrical trades II will continue to build student skill sets in areas such as Introduction to Electrical circuits; Electrical theory; Introduction to the National Electrical Code; Device Boxes; Hand Bending; Raceways and Fittings; conductors and Cables; Basic Electrical construction Drawings; Residential Electrical Services; and Electrical Test Equipment.

Electrical Trades III **1758**

Electrical Trades III will continue to build student skill sets in areas of Alternating Current; Motors: Theory and Applications; Electric Lighting; and conduit bending.

Electrical Trades IV **1759**

Electrical Trades IV will continue to build student skill sets in areas of Pull and Junction Boxes; Conductor Installations; Cable Tray; Conductor Terminations and Splices; Grounding and Bonding; Circuit Breakers and fuses; and control Systems and Fundamental concepts.

Emergency Response to Terrorism **0793**

Emergency Response to Terrorism is designed to develop the skills and necessary understanding to arrive to a possible terrorist incident and to provide the necessary safety and skills to protect the public and other responders. The course is designed in accordance to standards developed by the United States Department of Justice, Federal Emergency Management Agency and the United States Fire Administration.

Emergency Services I **0792**

EMT - Basic is the second level of Emergency Medical Services Care as recognized by the United States Department of Transportation. The student will become increasingly familiar with the human anatomy, its components, structures and systems as well as the ailments and injuries common to individuals. Furthermore, the student will become familiar with the proper treatment and care of the injured as well as the methods and techniques of patient assessment, access, stabilization and transport, in addition to proper documentation of the delivery of care.

Engineering Design & Development **2464**

Engineering Design and Development is a component of the PLTW pre-engineering curriculum. This is an engineering research course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses and are guided by a community mentor and must present progress reports, submit a final written report, and defend their solutions to a

panel of outside reviewers at the end of the school year. Safety instruction is integrated into all activities.

English 9 **4009**

English/Language Arts 9 focuses on the effective use of written language in educational and occupational endeavors and interpersonal communication. Instructional delivery is enhanced by computer technology. Frequent interaction with a broad array of quality literature encourages an appreciation for the power of the spoken and written word.

English 9 Honors **4009 0H**

The Honors programs are designed for students who have been superior English students in the past and who want to study literature and composition in depth. Honors students read much of the literature studied in regular English classes but study those works in greater depth. Much of this reading is done independently with students responsible for contributing prepared responses to class discussion. Writing assignments (critical analyses and creative responses) are also geared toward independent thinking.

English 10 **4010**

English/Language Arts 10 emphasizes the use of written language for educational, occupational, and personal endeavors. Preparation includes critiquing oral presentations and using speaking and listening while reading and writing. Instructional delivery is enhanced by computer technology. Frequent interaction with a broadened array of literature encourages an increased appreciation for the power of the spoken and written world.

English 10 Honors **4010 0H**

The Honors programs are designed for students who have been superior English students in the past and who want to study literature and composition in depth. Honors students read much of the literature studied in regular English classes but study those works in greater depth. Much of this reading is done independently with students responsible for contributing prepared responses to class discussion. Writing assignments (critical analyses and creative responses) are also geared toward independent thinking. Sophomore and Junior honors classes serve as preparation for Advanced Placement English.

English 11 **4011**

English/Language Arts 11 refines and enhances fundamental literary and communication skills. Indeed, In addition, career formalization, including college entrance exam preparation and workplace readiness skills, become a primary focus. Student proficiency is diagnosed to determine instructional priorities. As the need for challenging research skills becomes more vital, the incorporation of technology is emphasized.

English 12 **4012**

English Language Arts 12 focuses on personal skills and goals. Experiences such as a senior project or a sophisticated persuasive research paper will culminate the graduation experience. Evaluation, analysis and appreciation of language and literature in spoken and written form is the primary focus.

English 12 Transition for Seniors **4013**

Transition English Language Arts for Seniors is designed for students who have not met any of the benchmarks which determines college and career readiness. Engagement in this rigorous course of study will assist students in attaining acceptable admissions scores for placement into a college credit-bearing freshman English course.

Environmental Science **6312**

The environmental science course is an advanced high school elective course which builds on foundational knowledge of the chemical, physical, biological and geological processes and focuses on the natural world. Through an inquiry-based program of study, all students will demonstrate environmental literacy as they explore the economic, social, political, and ecological interdependence in urban and rural areas and on local and global scales. As students fuse experiences across disciplines, they will acquire knowledge, values, and skills needed to protect and improve the environment.

Fire Fighting I **2203**

This course will introduce students to the basic fundamentals of firefighting. Students will become familiar with safety procedures, personal protective equipment, command structure, lifting and carrying of equipment, forcible entry, rescue, use of radio equipment, working in hazardous environments, fire attack, advancement of hose lines, ventilation, disabling utilities, set-up of supply lines and fire apparatus, salvage, overhaul, portable fire extinguishers, scene illumination, foam application, and hazardous materials awareness.

Fire Fighting II **2205**

This course will expand on the basic of firefighting that were learned in Fire Fighting 1 and increase the student's overall understanding of the fire department and the services it provides. Students will be instructed on an expanded scope of firefighting and operational practices in: auto rescue and extrication, water supply, fire hose, fire streams, fire control, fire detection, alarm and suppression systems, protection of evidence for fire cause determination, fire department communications, fire prevention and public education, hazardous materials operations

Food Service Management Practices **1016**

This class will further prepare students in the ProStart Program to understand the responsibilities of a manager in the foodservice industry. The HACCP system of sanitation, workplace safety, employment laws, standards, and regulations will be considered from the manager's perspective. Ordering of foods, production sheets, scheduling, menu planning, costing out dishes, etc., will be practiced. Students will address food-handling procedures, monitoring techniques and record keeping procedures.

Forensic Science **6044**

Forensic Science is an advanced, high school elective course designed to provide students with hands-on experiences in various aspects of a criminal investigation. Science content and Engineering, Technology, and the Application of Science objectives are integrated as students ask questions and define problems, develop and use models, plan and conduct investigations, analyze and interpret data, construct explanations and design solutions as they consider crime scenes, evidence, and protocol. As students demonstrate proficiency in evidence collection--maintenance of data integrity, formulation of a conclusion/summary, and succinct communication of findings, they prepare for forensic-related careers and other occupational opportunities in science, technology, engineering, and math.

This course is for students who plan to compete on the speech and debate team. Class members are expected to attend competitions through the year. The techniques and theories taught in speech communication are covered. The focus of the class, however, is preparation for competition in individual events, policy debate, Lincoln Douglas Debate, and student congress. The class hosts a speech tournament by working with the teacher in hosting the tournament.

Foundations & Footings **1917**

Foundations in Engineering **2436**

This introductory course emphasizes hands-on activities and the development of mental processing such as creative thinking, decision-making, critical thinking, and problem solving. It also focuses on the use of technological processes - specifically, the use of knowledge, materials, and design techniques to solve everyday problems related to technology. The course uses the four areas of manufacturing, construction, transportation, and communication to enhance the development of technological literacy.

Foundations of Health Science **0711**

This course introduces information about health care systems and health careers. Information is included on disease transmission, human needs, and nutrition. Students also review and apply fundamental math principles used in health care services. Students are provided the opportunity to acquire First Aid and CPR certification.

French I **5621**

The student learns to speak, understand, and write simple sentences. Basic grammar principles and vocabulary become increasingly important as the year progresses. The student studies the culture of French-speaking countries. A variety of resources and activities is used to encourage communication in the language.

French II **5622**

The techniques and skills learned in French I are reviewed and further developed and meaningful communication is emphasized. The study of French culture is expanded with emphasis on geography and life styles. Simple selections in French are read and discussed.

French III **5623**

The student uses primarily French through a variety of oral and written activities. Speaking and reading are stressed. Individual and group work centers on literature and more complex grammar. The student studies a novel, short story, poem, and/or play. The study of French culture and French-speaking countries is continued as creative projects are presented.

French IV **5624**

The student practices self-expression in French by applying all that has been learned previously in conversation, reading, and written work. Selections of 19th and 20th Century literature are studied. Cultural emphasis includes French history, fine arts, and contributions of famous French speaking people. The communication and creative aspects of language study are stressed.

Fundamentals of Collision Repair Technology **1671**

This course will introduce students to the basic fundamentals of Collision Repair Technology. Students will become familiar with tools and materials for basic analysis and damage repair; general occupational information and computer applications.

Fundamentals of Computer Systems **1705**

This course introduces the student to the knowledge and technical skills for all courses in the computer Systems Repair Technology pathway. 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.

Fundamentals of Drafting **1729**

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.

Gas Metal Arc Welding **1987**

Gas Tungsten Arc Welding **1989**

This course will introduce students to basic skills in gas tungsten arc welding. Students should have good eye-hand coordination and a safety awareness. All students who take this class must have successfully completed all previous Welding courses and passed all safety tests.

Geometry **3062**

Students in this course will explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized early in this course with study of congruence and similarity to follow. Informal and formal proof techniques will also be examined. The pacing, depth of study, and rigor will be aligned for students planning to enter the workforce or attend trade school.

Geometry Honors **3062 0H**

Students in this course will explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Transformations are emphasized early in this course with study of congruence and similarity to follow. Informal and formal proof techniques will also be examined. The pacing, depth of study, and rigor will be aligned for students planning to attend college and study a STEM related field.

Greenhouse Production & Management **0214**

This specialization course covers instruction that expands the scientific knowledge and skills to include more advanced scientific computations and communication skills needed in the horticulture industry. Topics include greenhouse plant production and management, bedding plant production, watering systems light effects, career planning, leadership development and entrepreneurial skills. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts

Health 9 **6909 1**
Health 10 **6909 2**

Topics covered within health education courses include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. Brief studies of environmental health, personal development, and/or community resources may also be included in the class.

Health Science Clinical Experience **0730**

This course is recommended as an elective to be used in conjunction with Health Science Education courses that include a clinical specialization experience.

Horticulture **0212**

This course provides instruction on the broad field of horticulture with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, customer relations, career opportunities, leadership development and entrepreneurial skills.

Human Anatomy & Physiology 6103

Human Anatomy and Physiology is an advanced, high school elective course designed for those students wanting a deeper understanding of the structures and functions of the human body. The body will be viewed as a whole using anatomical terminology necessary to describe location. Instruction will be at both micro and macro levels reviewing cellular functions, biochemical processes, tissue interactions, organ systems and the interaction of those systems as it relates to the human organism. Systems covered include integumentary, skeletal, muscular, respiratory, circulatory, digestive, excretory, reproductive immunological, nervous and endocrine. Content standards are integrated with Engineering, Technology, and the Application of Science objectives as students develop conceptual understandings and research and laboratory skills, evaluate the academic requirements, and prepare for occupational opportunities in health and medical fields.

Individual Technique Music **3731**

This course is designed for the student who is interested in improving fundamental music skills through individualized instruction and is highly recommended for the student planning post-high school study of instrumental music.

Industrial & Commercial Wiring **1765**

This course introduces the student to the knowledge base and technical skills for Industrial and Commercial Wiring. Areas of study include conduit and raceways and commercial load calculations and configurations. Emphasis will be placed

on career exploration, job seeking skills and personal and professional ethics. Safety instruction is integrated into all activities.

Internship **7807**

Introduction to Agriculture, Food, & Natural Resources **0101**

This is a core course for the Agriculture, Food and Natural Resources Career Cluster that builds a knowledge base and technical skills in all aspects of the industry. Learners will be exposed to a broad range of agriculture, food, and natural resources careers.

Introduction to Engineering Design **2461**

Introduction to Engineering Design is a component of the Project Lead the Way (PLTW) pre-engineering curriculum. This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software.

Journalism I **4051**

Journalism I is for students who want to learn basic journalistic skills, develop initiative and personal responsibility, and gain a better understanding of media today.

JROTC I Citizenship, Character, & Traditions **1065**

This course is designed to investigate the mission and organization of a designed branch of service along with its history, traditions, customs and courtesies. The meaning, purpose and principles of conduct, discipline and standards are presented. Concepts of health, fitness, multiple dimensions of wellness are stressed as are other elements of citizenship and character. Cadets utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts.

JROTC II Management & Leaderships Principles **1066**

This course is designed to provide cadets with the principles and techniques of management and leadership through the planning, organizing, coordinating, directing, and controlling of JROTC projects and activities. The history of management will be explored along with leadership styles and characteristics. Cadets will explore ethical management and leadership through case studies, role play activities, etc. Managing change, stress, and innovation will be discussed. Wellness, discipline, and tradition standards are continued.

JROTC III Communication & Awareness **1080**

This course is designed to introduce communication skills as they relate to assuming leadership of individuals, groups and teams. Cadets will investigate problem solving, conflict management and resolution, developing others'

potential and project management. Global and cultural studies-including issues such as terrorism, religion, environment, human rights, disease, and economics will be explored. Wellness, discipline and tradition standards are continued.

JROTC IV Life Skills & Career Investigations **1081**

This course is designed to provide fundamental skills regarding responsible citizenship and adult.

JROTC Navy Drill Team **7647**

JROTC V **1062**

Leadership Development **0146**

This course is designed to provide students with basic leadership skills. Instructional areas include leadership styles, goal setting, time management, public speaking, job skills and interpersonal relationships. Safety instruction is integrated into relevant activities. Each student will be provided real world learning opportunities and instruction related to selection, development, and maintenance of individual Supervised Agricultural Experience programs.

Livestock Production **0230**

This is a specialization course designed for students interested in entering the livestock industry as a herd manager or livestock entrepreneur. The course will cover topics on nutrient management, farm planning, business planning, developing marketing plans, developing feed rations, forages, grassland management, embryo transfer and animal facilities as they apply to various livestock such as cattle, swine, sheep, goats, poultry and horses.

Management & Entrepreneurship **1445**

This course provides a background for the development and operation of a business starting with the role of the entrepreneur in our economy to the development of a business plan and the application of specific marketing skills and concepts within the business environment. This course also explores the planning, organizing and controlling of a business, including organizational and human aspects, with emphasis on various theories of management, the knowledge and understanding necessary for managing people and functions, and decision making.

Masonry & Plumbing **1829**

This course will introduce students to safe, efficient and acceptable practices involved in estimating for and constructing masonry and plumbing systems.

Math II **3014**

The focus is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Mathematics I as organized into six critical areas, or units. The link between probability and data is explored through conditional probability and counting methods, including their use in making and evaluating decisions. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. Circles and their quadratic algebraic representations, complete the course.

STEM Honors **3016 0H**

Math III Honors combines foundational concepts from Math I and Math II and expands upon them with content grouped into four critical areas, organized into units. Students apply methods from probability and statistics to draw inferenced and conclusions from data. Students expand their study of right triangle trigonometry to include general triangles. Finally, students bring together all of their experiences with functions and geometry to create models and solve contextual problems.

Math Transition for Seniors **3052**

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

Mechanical Drafting **1725**

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.

Medical Terminology **0721**

Through the study of medical terminology the student will be introduced to the language of medicine. Students will gain an understanding of basic elements, rules of building and analyzing medical words, and medical terms associated with the body as a whole. Utilizing a systems approach, the student will define, interpret, and pronounce medical terms relating to structure and function, pathology, diagnosis, clinical procedures, oncology, and pharmacology. In addition to medical terms, common abbreviations applicable to each system will be interpreted.

Networking+ **1694**

This course introduces the student to the knowledge base and technical skills related to networking. Areas of study include media and topologies, protocols

and standards, network implementation and network support. Content Skill Sets are based on testing objectives for the CompTIA Network+ certification.

Non-Structural Analysis & Damage Repair **1675**

This course will introduce students to the entry-level skills necessary in non-structural analysis and repair of metal and composite parts.

Office Management **1449**

This course is designed to develop student understanding and skills in such areas as developing personal and employability skills, managing records, processing mail, communicating duties, keeping financial records, applying computing, accounting, and data skills, processing business correspondence, operating office equipment, using management skills and completing office support activities.

Painting **3367**

In this course, students explore watercolor and acrylic paint techniques unless they furnish all materials (oil paint, canvas, brushes, and turpentine) necessary to develop an oil painting.

Parenting & Strong Families **0903**

This course is designed to help students evaluate readiness for parenting while examining appropriate Parenting and Strong Families practices. Students will develop an awareness of societal issues affecting families and explore support systems.

Personal Finance **1451**

Students learn the basic skills necessary to manage money and to live on their own. Topics include developing a budget, managing bank accounts and credit, insurance, and maintaining personal financial records are covered.

Physical Education 9 6609 1

Physical Education 10 **6609 2**

The purpose of this co-educational course is to develop fundamental skills in many physical activities. Students develop individually, while learning sports that have carry-over value for later life. Students learn not only how to play and improve skills, but also the importance of physical education in the total school curriculum. Special emphasis is placed on fitness with all students participating in the required Fitnessgram to develop sound health habits.

Physical Science **6011** The Physical Science course develops understandings of the core concepts from chemistry and physics: Structure and Properties of Matter; Chemical Reactions; Forces and Interactions; Energy; and Waves and Electromagnetic Radiation. The objectives in Physical Science allow

high school students to explain more in-depth phenomena central not only to the physical sciences, but to life and earth and space sciences, as well.

Physics **6041**

Physics is an advanced elective course designed for students pursuing Science Technology Engineering Mathematics (STEM) education and careers. The course emphasizes a mathematical approach to the topics of Forces and Interactions; Energy, and Waves and Electromagnetic Radiation and prepares students for college physics. The physics course prepares high school students to explain more in-depth phenomena central not only to the physical sciences, but to life and earth and space sciences, as well.

Principles of Engineering 2463

Principles of Engineering is a component of the Project Lead the Way (PLTW) pre-engineering curriculum. This course will help students understand the field of engineering and engineering technology. Exploring various technology systems and manufacturing processes help students learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

Public Speaking **41640X**

Students learn the principles of informative and persuasive speaking. The student will use the principle of invention, arrangement, style, memory, and delivery in the construction and presentation of speeches. Specific topics to be studied include communication process, ethics, listening, organization, delivery, audience analysis, research, and language.

Refinishing Techniques **1674**

This course will introduce students to techniques involving color adjustments, custom paint mixes, three state spot repairs, and blending mica coats.

Residential Wiring **1769**

Restaurant & Culinary Foundations **1013**

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

Restaurant Management Essentials **1014**

This course is designed to focus management essentials in the restaurant industry, guest service, food production, and career exploration and pursuit.

Restaurant Professional **1020**

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

Server & Network Operations **1617**

Aries Server Essentials is designed to build on the solid foundation of IT knowledge established by Aries courses curricula. The curriculum focuses on server room design and installation, security, maintenance, and network administration.

Spanish I **5661**

Students begin the study of the four skills of listening, speaking, reading, and writing. Students continually build vocabulary and incorporate grammar principles into the study of the language. Hispanic cultures and customs are presented in short readings. A variety of activities may include conversational activities, games, music, skits, and audio-visual material.

Spanish II 5662

Students further expand their skill and knowledge of vocabulary, grammar, and sentence structure through listening, speaking, reading, and writing. Their study of the Spanish and Latin American cultures is increased through readings in the language. Conversation becomes more varied and personalized.

Spanish III **5663**

In Spanish III, the student uses all previously acquired skills as tools in the communication process. Emphasis is placed on developing conversational ability both orally and in writing, along with reinforcing knowledge of grammar, sentence structure, and vocabulary. The student increases his/her study of Hispanic culture and civilization. Authentic reading materials are used as well as abridged versions of classical works. Clear communication through the use of composition, oral presentation, practice in an appropriate grammar workbook, vocabulary, and conversation are emphasized.

Spanish IV **5664**

In Spanish IV, the student uses the Spanish language for total communication. Focus is on developing the four language skills: listening comprehension, reading, speaking, and writing in the development of language proficiency. Through the study of Hispanic language, geography, civilization, culture, and literature, the students gain a knowledge and understanding of the Spanish-speaking world. The student's critical thinking skills are sharpened to maximum potential within the context of the course.

String Orchestra I **3764**

String Orchestra II **3765**
String Orchestra III **3776**
String Orchestra IV **3777**

Structural Analysis & Damage Repair **1677**

This course will introduce students to the entry-level skills necessary in structural analysis and repair of frame and unibody type vehicles using welding techniques, measuring equipment and frame machines.

Structural Steel Drafting **1726**

Surface Preparation & Refinishing **1679**

This course will introduce students to the entry-level skills necessary in the surface preparation and refinishing of vehicles using various refinishing systems.

Telecommunicator **2207**

This course is designed to train the experienced and inexperienced public safety telecommunicator how to effectively direct and manage their emergency medical resources. The course's primary focus is on the end-user productivity in obtaining information from callers, selecting the proper protocols, dispatching proper resources and giving telephone medical instructions. Other areas of significance are the basic philosophy of EMD, legal concepts important to the EMD's job and basic medical concepts necessary for understanding the medical content of emergency medical dispatch. This course is based on standards developed by the National Highway Traffic Safety Administration and is equivalent to 1 unit of credit.

Theatre I **3801**

Upon successful completion of Theatre I, students are able to analyze play texts, identify contemporary styles of theatre/drama, and depict characters in them. Students identify basic properties of technical theatre and demonstrate technical knowledge and skills and explore multiple interpretations for production ideas and research how the nondramatic art forms enhance a theatre production. Other areas studied include a variety of cultures and historical periods related to theatre.

Theatre II **3802**

Theatre II students write, perform, and evaluate theatre productions, identify and demonstrate selected historical style of theatre/drama, and perform contemporary and classical characters' parts. Students explain basic properties of technical theatre and apply that knowledge and skill. They develop multiple interpretations for production choices and explain how other art forms enhance a theatre production. Analysis and critique of dramatic performances are required.

Topics in Social Studies: US Combat Studies

History of major US combats

Trigonometry/Pre-Calculus **3064**

Students in this course will generalize and abstract learning accumulated through previous courses as the final springboard to calculus. Students will take an extensive look at the relationships among complex numbers, vectors, and matrices. They will build on their understanding of functions, analyze rational functions using an intuitive approach to limits and synthesize functions by considering compositions and inverses. Students will expand their work with trigonometric functions and their inverses and complete the study of the conic sections begun in previous courses. They will enhance their understanding of probability by considering probability distributions and have previous experiences with series augmented. Students will continue developing mathematical proficiency in a developmentally-appropriate progression of standards. Mathematical habits of mind should be integrated in these content areas.

US Studies **7009**

This program of study follows the evolution of the Constitution as a living document and the role of participatory democracy in the development of a rapidly changing technological society. This study of the United States is an examination of the formative years from the colonization of what would be the United States to its transformation as a dominant political and economic influence in the world at the beginning of the twentieth century. Special emphasis is placed on how the challenges of setting expansive and diverse physical environments were met by a culturally diverse population.

Vocal Ensemble I **3766**
Vocal Ensemble II **3767**
Vocal Ensemble III **3768**
Vocal Ensemble IV **3769**

Vocal ensemble courses are intended to develop vocal techniques and the ability to sing parts in small ensemble or madrigal groups. The course goals may include

the development of solo singing ability; one or several ensemble literature styles may be emphasized.

Weight Training **6765**

Conditioning includes jogging topics such as the way to begin, the dangers and the facts, the equipment, and the locations to jog. Weight training includes the orientation, demonstration exercise, and a training program for personal or athletic purposes. The course consists of conditioning and weight training three days per week and team sports two days per week.

Welding I **1862**

This course is designed to introduce the student to the knowledge base and technical skills of the Welding industry. Welding I begins with the NCCER Core curriculum which is a prerequisite to all Level I completions. The students will complete modules in Basic Safety; Introduction to Construction Math; Introduction to Hand Tools; Introduction to Power Tools; Introduction to Construction Drawings; Basic Rigging; Basic Communication Skills; Basic Employability Skills; and Introduction to Materials Handling. Students will then begin developing skill sets in the fundamentals of Welding such as Welding Safety; Oxyfuel Cutting; and Plasma Arc Cutting.

Welding II **1863**

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

Welding III **1864**

Welding III will continue to build student skill sets in areas of Welding Symbols; Reading Welding Detail Drawings; Physical Characteristics and Mechanical Properties of Metals; Preheating and Postheating of Metals; GMAW and FCAW-Equipment and Filler Metals; and GMAW and FCAW-Plate.

Welding IV **1865**

Welding IV will continue to build student skill sets in areas of GTAW-Equipment and Filler Metals; and GTAW-Plate.

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Work-Base Experience **7665**

The experiences require students to integrate knowledge and skills from academics, career/technical education and/or the arts and demonstrate the personal qualities, skills, knowledge, and understanding they need to be leaders in the 21st Century.

Work-Based Integration & Transition **0520**

World Studies 9 **7010**

World Studies engages students in the study of the development and evolution of the historic, economic, geographic, political and social structures of the cultural regions of the world from the dawn of civilization to the Twentieth Century. Special attention is given to the formation and evolution of societies into complex political and economic systems. Students are engaged in critical thinking and problem-solving skills using maps, spreadsheets, charts, graphs, text, and other data from a variety of credible sources. Students synthesize the information to predict events and anticipate outcomes as history evolves through the ages.

World Studies Honors 7010 0H

Students in this class will be expected to exercise their critical thinking skills, engage in more in-depth discussion, and express their ideas, judgments and conclusions in essay format.

Yearbook I **4071**
Yearbook II **4072**
Yearbook III **4073**
Yearbook IV **7074**