



Paden City High School

2017 – 2018

Program of Studies

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WVNCC

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GRADUATION REQUIREMENTS PADEN CITY HIGH SCHOOL

FRESHMAN YEAR

English 9
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3 Electives

SOPHOMORE YEAR

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US History
Biology or Conceptual Biology
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3 Electives

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4 Electives

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Eng12
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4 Electives

FINE ARTS

At least one elective in the four years MUST be chosen from the fine or performing arts.

COMMUNITY SERVICE/WORK BASED LEARNING- All students must complete a work-based learning experience. Some types of work-based learning are: community service; a job; shadowing someone at work; regular employment. There is no set number of community service hours a student must complete. 20-30 hours are recommended.

ADVIOOR/ADVISEE/LINKS

Students are required to participate in an advisory group which will emphasize setting goals, behaving responsibly, and exploring career clusters.

The minimum credits for classification as Sophomore =6, Junior =12 Senior =18

HONORS RECOGNITION POLICY

Academic Honors include:

- Valedictorian
- Salutatorian
- Highest Honors 4.0
- High Honors 3.75-3.99
- Honors 3.5-3.74

ALL HONORS ARE DETERMINED AT THE END OF EIGHT SEMESTERS.

NOTE: COURSES LISTED IN THIS GUIDE MAY NOT BE TAUGHT EVERY YEAR, DEPENDING UPON REQUESTS.

ARTS - FINE AND PERFORMING

ART

Art I **Grades 9 – 12** **321100** **1**
Credit

Art I is designed to reinforce and build on 21st Century Knowledge and Skills developed by the K-8 Visual Arts Content Standards and Objectives. Students produce two-dimensional and three-dimensional artworks using a variety of media, techniques, technology, and processes. They relate art skills and strategies to other disciplines, various cultures, major art movements, and historical periods. They practice responsible workplace skills and review career options which encompass 21st Century content, literacy and life skills.

Art II **Grades 10 - 12** **321200** **1 Credit**

Students in Art II extend artistic skills, critical skills, and concept development through well-defined experiences in creating, reflecting, and discussing artworks. Students focus on compositional awareness through the proficient use of elements, principles, structures, and functions. Students explore various aspects of the arts in the context of global cultures and historical parameters as they examine connections between other disciplines, and technologies. Students practice responsible workplace skills and safety. They explore career opportunities. The teacher introduces the concept of portfolio development. All these concepts and processes reflect 21st century skills and content.

Art III **Grades 11 - 12** **321300** **1 Credit**

Art III builds on previous content standards with a more in-depth approach. Students analyze and respond to art from various global 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 portfolios which include products and critiques, and other reflective work as they develop a personal style. Skills in learning and thinking, literacy on a variety of levels and life skills for the 21st century are developed through in-depth core subject content in the arts.

Art IV **Grades 12** **321400** **1 Credit**

In Art IV, 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 global and personal knowledge in the arts. Students take part in planning and installing an exhibition. 21st century learning and thinking skills, literacy in a variety of forms, and life skills are applied to content and projects.

Studio Art I **Grades 9 - 12** **32410** **1 Credit**

Studio Art electives provide in-depth study in selected media, techniques, and processes. Studio Art electives include but are not limited to the following courses taught at the proficiency level: air brush, animation, architecture, batik, calligraphy, ceramics, color and design, commercial art, computer graphics, craft, design principles, drawing, electronic imaging, ethnic art, fiber arts, folk art, film, functional design, graphic design, jewelry, mixed media, painting, photography, printmaking, sculpture, stage design, and stained glass.

Studio Art II **Grades 10 - 12** **324200** **1 Credit**

Studio Art II electives provide advanced in-depth study of selected media, techniques, and processes. The advanced level classes require Studio Art I prerequisites in the same area of study or teacher approval. Students demonstrate advanced levels of craftsmanship; knowledge of art careers and related professions; advanced level skills in the use of related vocabulary; and proficiency in the selection and use of the media. These skills and concepts build on the 21st century skills of the Studio I course, further developing and refining them. Studio Art II electives include but are not limited to the following courses taught at the

advanced level: air brush, animation, architecture, batik, calligraphy, ceramics, color and design, commercial art, computer graphics, crafts, design principles, drawing, electronic imaging, ethnic art, fiber arts, folk art, film, functional design, graphic design, jewelry, mixed media, painting, photography, printmaking, sculpture, stage design, and stained glass.

AP STUDIO ART

The A.P. Studio Art course and portfolios are designed for students who are seriously interested in the practical experience of art. The drawing course involves a high level of commitment and energy. Students are expected to work. A.P. Studio Art is not a course based on a written examination; instead students submit portfolios for evaluation at the end of the school year to the College Board and the Advance Placement Program. This course requires students to focus on mastering the art of drawing through a wide range of experiences, including: drawing techniques, use of drawing media, subject matter and the development of a personal approach to art making.

MUSIC

Band-Concert/Marching I-IV **Grades 9 - 12** **370600** **1 Credit**
 Winds and Percussion provides opportunities for students in grades 7-12 to participate in marching, concert and jazz ensembles. Musical skills such as technique, rhythm, dynamics, tempo, harmony, form, tone, and active listening will be developed. Involvement in the pep band, jazz ensemble, and percussion ensemble require enrollment in this class (except in special circumstances which will be reviewed and determined by the director). All performances are mandatory.

Guitar I **Grades 9 - 12** **372800**
1 Credit An elective course offering instruction on the Guitar. The course covers a variety of techniques & fundamentals to playing the guitar including Music fundamentals, theory, songs, performing, listening and how to read standard music notation and tablature.

GUITAR II

This class is for the advanced student desiring more training on guitar. The student must have his/her own guitar.

Piano I **Grades 9 - 12** **368100** **1 Credit**
 An elective course offering instruction on the Piano. The course covers a variety of techniques & fundamentals to playing the piano including music fundamentals, theory, songs, performing, listening, and how to read standard music notation.

PIANO II

This class is for advanced students desiring more piano training.

THEATRE

Theater I **Grades 9 – 12** **380100** **1 Credit**
Theater II, III, IV **Grades 10 - 12** **380200;380300;380400** **1 Credit**

This course is designed to develop an awareness and appreciation of drama by studying the various elements of the theater such as acting, make-up, set design, costuming, lighting, etc.. Participation in activities both in and out of the classroom is required.

Film and Video Production: 381900 **Grades 9-12**
 1 credit/2 semesters

The class will begin with screenwriting where students will develop characters and a storyline. We will use Final Draft software to write the screenplay. Students will learn camera techniques including set-up, long shots, close-ups, lighting and dolly shots. Students will learn about camera functions such as Aperture, ISO, use of different lenses and Exposure for digital cameras. Students will then break the screenplay into shooting schedule and start filming. Students will learn to edit picture and sound using Davinci Resolve 12. The WV Thespian Festival now offers a competition for short film as part of their Tech Expo. Students will be expected to have one short film to enter into the competition.

BUSINESS DEPARTMENT

Paden City High School offers concentrations in the Business cluster with concentrations in **Accounting, and Administrative Support** as outlined by the West Virginia Department of Education. The combination of required courses for each of these majors is listed below. A student who finishes one of these combinations of courses will earn a **vocational certification** in the Business/Marketing cluster as approved by the state of West Virginia.

<i>Accounting</i>	
Accounting I	Business Computer Applications I
Business and Marketing Essentials	Accounting II OR Personal Finance
<i>Administrative Support</i>	
Accounting I	Business Computer Applications I

EDGE college credit can be attained in business courses so designated by passing the required state-developed end-of-course exam with a grade of 75% or above.

BUSINESS EDUCATION COURSES

Accounting Principles I and II

1 credit (EDGE Credit)

Grades 9 – 12

1401E0

1

Students will learn basic accounting principles, concepts and practices. The course focuses on the basic accounting cycle for a single owner business and for partnerships. Some work in corporation accounting may also be done in the second semester. The majority of the work is done in class. The accounting activities and tests throughout the year are problem oriented. Students will not only benefit from this course if they are going into a business field, but most concepts learned such as banking and payroll are important life skills.

Accounting Principles II

1 credit (EDGE Credit)

Grades 9 – 12

1403E0

1 credit

Business Computer Applications I

1 credit (EDGE Credit)

Grades 9 – 12

1411E0

1 credit

This course is recommended for all freshmen. This course is dedicated to learning general computer skills in the areas of word processing, spreadsheet, database management, desktop publishing, electronic communication and presentation.

Business Computer Applications II

1 credit (EDGE Credit)

Grades 9 – 12

1413E0

1

This area of study is designed to further develop skills in using word processing, spreadsheet, and database, desktop publishing, electronic communication and presentation software. A prerequisite to this course is BCA I.

Business and Marketing Essentials

1 credit (EDGE Credit)

Grades 9 – 12

1439E0

1

This course is an introduction course that explores careers in business and marketing, the role of marketing in today's business world and a broad overview of economics.

Office Management

1 credit (EDGE Credit)

Grades 9 – 12

1449E0

1

This area of study is designed to aid students in becoming skillful in the operation of an office. Major instructional areas include: personal development and employability skills, managing records, processing mail, communication duties, keeping financial records, applying computing, accounting, and data skills, processing business correspondence, operating office equipment, using management skills, and completing office support activities.

ENGLISH LANGUAGE ARTS

Required:

400900 ENG LA 9

401000 ENG LA 10

401100 ENG LA 11

401200 ENG LA 12

or

401200 ENG LA 12 CR

400900 ENG LA 9

½ credit per semester

ENGLISH LANGUAGE 9

(Both semesters required)

Reading and English Language Arts ninth grade students will focus on the effective use of written language in educational and occupational endeavors and interpersonal communications. Instructional delivery will be enhanced through a wide range of information media and the interpretation of media communication. Frequent interaction with a broad array of quality literature and informational texts will encourage an appreciation for the power of the written and spoken word. All reading, writing, speaking, listening and media literacy skills and

strategies will be utilized across the curriculum. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

401000 ENG LA 10

ENGLISH LANGUAGE 10

½ credit per semester

(Both semesters required)

Reading and English Language Arts tenth grade students will use written language for educational, occupational and self-direction endeavors. Preparation will include critiquing and evaluating oral presentations and using listening, speaking and media literacy. Instructional delivery will be enhanced by a wide variety of media. Frequent interaction with a broadened array of literature will encourage an increased appreciation and understanding for the power of the spoken and written word across the curriculum. Tenth graders will become more adept at making connections and transferring knowledge to new situations through research and writing. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

401100 ENG LA 11

ENGLISH LANGUAGE 11

½ credit per semester

(Both semesters required)

Reading and English Language Arts eleventh grade students will refine and enhance foundational literary and information and communication skills through academic rigor and depth. School-to-career experiences, including college entrance exam preparation and the ability to think, speak and write logically in the workplace will become primary focus. Challenging research and writing skills will be emphasized across the curriculum. The inclusion of higher order thinking skills, communication skills, self-direction and creative thinking in the curriculum will be used to enable students to effectively build content knowledge. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools

401200 ENG LA 12

ENGLISH LANGUAGE 12

ENG LA 12 CR ENGLISH LANGUAGE 12 CR (College Readiness)

½ credit per semester

(Both semesters required)

Reading and English Language Arts twelfth grade students will focus and polish 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 will be the primary focus. Readiness for the work place, by thinking creatively and logically to solve problems and using tools that are essential for workplace productivity, and post-secondary education is the final educational reality check during the twelfth grade year. To meet the needs of the 21st century student, instructional delivery should be enhanced through a wide range of media.

English 12 CR

English 12 college or career ready is a rigorous course designed to increase the number of students who are college and/or career ready upon graduation from high school. Student placement in the course must be based upon the criteria set forth in the placement guidance document provided to counselors and administrators. The course is intended to assist those students who score within a reasonable range to advance to the college and career readiness benchmark on act, act plan, or act work keys, as well as students whose teachers have identified targeted areas for skill improvement and knowledge acquisition through observed student classroom performance and/or performance on other standardized assessments. This course serves as an English 12 credit and deems students eligible for graduation and the promise scholarship. English 12 cr is not a remedial English course. Upon completion of the course, students will take the compass assessment to determine if they have attained the college and career benchmark score.

FRESHMAN COLLEGE ENGLISH

4109C0

3 hours college credit per semester

Must be taken in conjunction with English 12. This class does NOT replace English 12.

See WV Virtual School for AP Courses

FOREIGN LANGUAGES

COLLEGE BOUND AND HONOR STUDENTS MUST HAVE TWO CREDITS OF THE SAME FOREIGN LANGUAGE.

Spanish I

Grades 9 - 12

566100

1 Credit

Students will become comfortable with the new language so that they can speak and understand native speakers, the teacher, and each other. Listening for understanding will be an integral component of Spanish I. Basic and essential grammar must be mastered. Cultural components will include geography, acquaintance with many Spanish speaking countries' customs, and sampling of foods from those countries. The course will be fun and exciting.

Spanish II**Grades 10 - 12****566200****1 Credit**

In this course, the student will expand vocabulary, refine basic grammar skills, and begin reading and writing more detailed compositions in the target language. Spanish II, like Spanish I, will be fun with fiestas as a cultural element. A "C" average in Spanish I is required for entry.

Spanish III**Grades 11 – 12****566300****1 Credit**

A continuation and amplification of materials from Spanish 2 with more advanced grammar concepts. The primary emphasis will be on speaking, oral comprehension, reading and writing. The class discussions are conducted in Spanish.

ALSO SEE WV VIRTUAL SCHOOL OFFERINGS

MATHEMATICS

The Standards for Mathematical Practice are central to the teaching and learning of mathematics. Together, the Standards for Mathematical Content and the Standards for Mathematical Practice describe the knowledge and skills that are exhibited by students who are mathematically proficient.

- 1. Make sense of problems and persevere in solving them.**
- 2. Reason abstractly and quantitatively.**
- 3. Construct viable arguments and critique the reasoning of others.**
- 4. Model with mathematics.**
- 5. Use appropriate tools strategically.**
- 6. Attend to precision.**
- 7. Look for and make use of structure.**
- 8. Look for and express regularity in repeated reasoning.**

Algebra I**306100****Grade 9**

1 credit/2semesters

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. Mathematical habits of mind, which should be integrated in these content areas, include: making sense of problems and persevering in solving them, reasoning abstractly and quantitatively; constructing viable arguments and critiquing the reasoning of others; modeling with mathematics; using appropriate tools strategically; attending to precision, looking for and making use of structure; and looking for and expressing regularity in repeated reasoning. Students will continue developing mathematical proficiency in a developmentally-appropriate progressions of standards.

MATH LAB**301300**

Math 1-9 lab is a course designed to allow students additional time and scaffolding to master Math I content and standards. This course is taught during the same instructional year as the Math 1-9 course.

MATH II**301400**

The focus of Mathematics II 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 need for extending the set of rational numbers arises and real and complex numbers are introduced so that all quadratic equations can be solved. 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, with their quadratic algebraic representations, round out the course.

MATH III STEM

Math II STEM includes all of the content of Math III LA, but goes beyond the minimum requirements of college and career readiness and provides students with the additional mathematics necessary for the pursuit of a field of study in a STEM field (Science, technology, Engineering, and Mathematics) Student planning to take AP Calculus next year will need to complete both Math III STEM and Honors Math IV during their junior year.

MATH III TECHNICAL READINESS

This is the first of two courses which will cover the Math III curriculum. Students will need to complete Math IV Technical Readiness in order to complete the Math III curriculum.

This course is designed for those students not planning to attend a four-year college. This course sequence is ideal for those planning to attend a technical or trade school or for those who prefer to see a more vocational approach to mathematics.

It is in Mathematics III that students pull together and apply the accumulation of learning that they have from their previous courses, with content grouped into four critical areas, organized into units. They apply methods from probability and statistics to draw inferences and conclusions from data. Students expand their repertoire of functions to include polynomial, rational and radical functions. They expand their study of right triangle trigonometry to include general triangles. Finally, students bring together all of their experience with functions and geometry to create models and solve contextual problems.

MATH IV TECHNICAL READINESS

This is the second of two courses (Math III TR and Math IV TR) that students may complete to obtain credit for the Math III curriculum.

This course is designed for those students not planning to attend a four-year college. This course sequence is ideal for those planning to attend a technical or trade school or for those who prefer to see a more vocational approach to mathematics.

Upon completion of this course, students will have finished all of the concepts taught in the Math III Liberal Arts course, but will have experienced them from a more vocational approach.

MATH IV

The fundamental purpose of Mathematics IV is to generalize and abstract learning accumulated through previous courses and to provide the final springboard to calculus. Students take an extensive look at the relationships among complex numbers, vectors, and matrices. They build on their understanding of functions, analyze rational functions using an intuitive approach to limits and synthesize functions by considering compositions and inverses. Students expand their work with trigonometric functions and their inverses and complete the study of the conic sections begun in Mathematics II. They enhance their understanding of probability by considering probability distributions. Previous experiences with series are augmented.

ADVANCED MATHEMATICAL MODELING

Students 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. Students learn to become critical consumers of the quantitative data that surround them every day, knowledgeable decision makers who use logical reasoning and mathematical thinkers who can use their quantitative skills to solve problems related to a wide range of situations. As they solve problems in various applied situations, they develop critical skills for success in college and careers, including investigation, research, collaboration and both written and oral communication of their work. 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.

304800 TRIG TRIGONOMETRY

Pre-Requisites: Algebra I, Geometry, Algebra II

Trigonometry objectives emphasize making connections between right triangle trigonometry and circular functions.

304600 PRE-CAL PRE-CALCULUS

Pre-Requisites: Algebra I, Geometry, Algebra II

Pre-Calculus objectives extend students' knowledge of functions and equations (e.g., higher-order functions, exponential, and logarithmic) as well as provide preparation for a calculus course.

314400 CALCULUS

Calculus objectives are designed for students who have completed Algebra I, Geometry, Algebra II, Trigonometry, and Pre-Calculus. Study includes functions and continuity, limits, differentiation and applications of derivatives, integration and its application to area, volume, and displacement. The Rule of Four (Numerical, Analytical, Graphical and Verbal) will be applied throughout the course.

305200 COLLTRNMATH COLLEGE TRANSITION MATH FOR SENIORS

This course prepares students for entry level liberal studies mathematics courses at the post-secondary level. The course will solidify Their quantitative literacy by enhancing numeracy and problem solving skills as they investigate and use the fundamental concepts of Algebra, Geometry and introductory trig.

THIS CLASS COUNTS AS ONE OF THE FOUR REQUIRED MATH CLASSES TO MEET GRADUATION REQUIREMENTS.

Pre-requisite: Algebra and be at least enrolled in Geometry

This class is required for any senior who did not score Mastery or better on Westest 2.

PHYSICAL EDUCATION DEPARTMENT

Health 1

Grade 9

690990

½ Credit

Students will study the structures and functions of the human body and learn how to maintain their personal health and fitness. Other topics will include mental health, family planning, reproductive system, and developing good habits. Students will also investigate the use of drugs, alcohol and tobacco.

Health 2

Grades 10

690910

½ Credit

Students will study heredity and how their environment affects their development. Other topics include communicable diseases, nutrition, and first aid treatment. Students will also learn about careers related to the health field.

Phys. Ed. 1 **Grade 9** **660990** **½ Credit**
This class includes specific instruction in the development of motor skills and motor fitness. The emphasis is on basic fundamentals, also emphasized is the development of desirable social attitudes, standards of conduct and the development of skills and interests in a wide range of physical activities.

Phys. Ed. 2 **Grades 10** Units covered are physical fitness, individual activities, dual sports, rhythms, and gymnastics. **660910** **½ Credit**

Peer Tutor **Grades 11-12** **783110** **½ Credit**
Peer tutors will assist 7-10 students and instructor in physical education classes.

SCIENCE

Required:

601100 EARTH AND SPACE SCIENCE

602100 BIOLOGY

602300 BIOLOGY II

603100 CHEMISTRY

610300 HMN ANAT HUMAN ANATOMY & PHYSIOLOGY

604100 PHYSICS

604400 FORENSIC SCIENCE

EARTH and SPACE SCIENCE

This 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.

602100 BIOLOGY

Biology is a course designed for students who desire a broader, in-depth study of the content found in many biological fields of endeavor. This course is designed to build upon and extend the Biology concepts, skills, and knowledge from the science program, using skills for the 21st Century. Students will explore occupational opportunities in health, engineering, and technology and evaluate the required academic preparations while expanding laboratory skills and experiences. Students will engage in active inquiries, investigations, and hands-on activities for a minimum of 50% of the instructional time to develop conceptual understanding and research/laboratory skills. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

602300 BIOLOGY II

Pre-requisite: Science 9, Biology I

Biology II is an advanced course that is an elective designed for students who have completed Biology or Conceptual Biology and desire an in-depth and rigorous study of the content found in many biological fields of endeavor. This course is designed to build upon and extend the Biology and Conceptual Biology concepts, skills and knowledge from a science program, using skills for the 21st Century. Students interested in health and scientific related careers will evaluate the required academic preparations while building and expanding their laboratory skills and experiences. Students will engage in active inquiries, investigations and hands-on activities for a minimum of 50% of the instructional time to develop conceptual understanding and research/laboratory skills. Safety instruction is integrated into all activities. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

603100 CHEMISTRY

Chemistry is an advanced level course designed for students who desire a broader, in-depth study of the content found in the science field of chemistry. Chemistry is the study of matter, its composition and its changes. This course is designed to build upon and extend the Chemistry concepts, skills and knowledge from the science program using skills for the 21st century. This course is designed to prepare a student for college chemistry, requiring a strong mathematical base. The relationship between chemistry concepts and mathematics will be emphasized. Students will engage in active inquiries, investigations and hands-on activities for a minimum of 50% of the instructional time to develop conceptual understanding and research/laboratory skills as they evaluate the academic requirements and prepare for occupational opportunities in biology, chemistry, engineering, and technology. Safety instruction is integrated into all activities. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

610300 HMN ANAT HUMAN ANATOMY & PHYSIOLOGY

Pre-requisite: Science 9, Biology I

Human Anatomy and Physiology is an advanced course that is an elective designed for those students wanting a deeper understanding of the structure and function of the human body. The body will be viewed as a whole using anatomical terminology necessary to describe location. Focus 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. This course will develop 21st century skills and be appropriate for college bound students as well as those choosing a health services career cluster. Students will engage in active inquiries, investigation, and hands-on activities for a minimum of 50% of the instructional time to develop conceptual understanding and research/laboratory skills as they evaluate the academic requirements and prepare for occupational opportunities in health and medical fields. Safety instruction is integrated into all activities. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century

Learning Skills and Technology Tools

604100 PHYSICS

Pre-requisite: Science 9, Biology I, Chemistry I

Physics is an advanced level course that is an elective designed for students desiring a broader, in-depth study of the content found in the science field of physics. As a college preparatory course, Advanced Physics is a laboratory driven, advanced study of nature's universal laws with emphasis on process skills, using 21st century skills. This course is designed to build upon and extend the Physics concepts, skills, and knowledge from the science program. The course emphasizes a mathematical approach to the areas of kinematics, dynamics, thermodynamics, light and optics, electricity and magnetism and modern physics. Students will engage in active inquiries, investigations, and hands-on activities for a minimum of 50% of the instructional time to develop conceptual understanding and research/laboratory skills as they evaluate the academic requirements and prepare for occupational opportunities in biology, engineering and technology. Safety instruction is integrated into all activities. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

604400 FORENSIC SCIENCE

Students will demonstrate proficiency in evidence collection, interpretation, and analysis of collected data, maintenance of data integrity, formulation of a conclusion/summary, and presentations of the results. Some experiments include: fingerprint analysis, blood typing, photography/sketching of crime scene, DNA fingerprinting, hair & fiber analysis, chromatography, blood spatters, and toxins.

See WV Virtual School for AP courses

SOCIAL STUDIES

Required:

701000 WRLD 1900 WORLD HISTORY TO 1900 (9th grade)

700900 US TO 1900 U.S. STUDIES TO 1900 (10th grade)

701100 CONTEMP STDS CONTEMPORARY STUDIES

(11th grade) 703100 CIVIC NXT GEN CIVICS FOR NEXT

GENERATION (12th grade)

Electives:

703200 ECONOMICS

703300 GEOGRAPHY

7321CO COLLEGE PSYCHOLOGY/POLITICAL SCIENCE

701000 WRLD 1900 WORLD HISTORY TO 1900 (9th grade)

The ninth grade social studies course engages students in the study of the development and evolution of the historic, economic, geographic, political, and social structure of the cultural regions of the world from the dawn of civilization to 1900. 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. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

700900 US TO 1900 U.S. STUDIES TO 1900 (10th grade)

The tenth grade program of study examines 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 Pre-Columbian civilizations to its transformation as a dominant political and economic influence in the world. Special emphasis is placed on how the challenges of settling expansive and diverse physical environments were met by a culturally diverse population. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools

701100 CONTEMP STDS CONTEMPORARY STUDIES (11th grade)

In the eleventh grade social studies course students examine the historical evolution and global interaction of states, nations and nation-states from geographic, political and economic perspectives from 1900 through present day. Students engage in critical thinking and problem-solving skills, using maps, spreadsheets, charts, graphs, primary source documents and text and other data from a variety of credible sources to synthesize historical information, predict events and anticipate outcomes. Students recognize the economic interdependency of the United States with other countries of the world. Students examine the factors that influence changing political relationships 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 on world events will be emphasized. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

703100 CIVIC NXT GEN CIVICS FOR NEXT GENERATION (12th grade)

Responsible participatory citizenship, an understanding of the workings of our government, sound financial literacy and global awareness are essential to the preservation and improvement of American Constitutional Democracy. Civics for the 21st Century is the capstone social studies course combining civics, economics and geography to prepare students as 21st Century citizens. Students engage 21st century tools to expand upon their critical thinking and problem-solving skills allowing them to become financially literate, to develop civic efficacy, and to acquire the geographic knowledge necessary to understand the physical and human systems of the world. Students become informed decision makers as they work collaboratively and develop a correct awareness of their place in a global society. Students engage in communication skills to acquire and convey their knowledge appropriately. The West Virginia Standards for 21st Century Learning include the following components: 21st Century Content Standards and Objectives and 21st Century Learning Skills and Technology Tools.

Elective:

7321CO COLLEGE PSYCHOLOGY

3 college credits per semester

This course will present the science of psychology as well as give the student some insight into both their personal problems of adjustment and the problems of their society. Psychology does have some knowledge that can contribute to productivity, happiness and social learning, understanding human behavior, patterns, psychology and society - help in seeking answers to some basic life questions.

7139C0 COLLEGE POLITICAL SCIENCE

See WV Virtual School for AP Courses

ADDITIONAL ELECTIVES

Driver Education Grades 9 - 12

681100

1/2 Credit

Must be age 15 by end of 1st semester (January)

Driver Education is a course where the students are made aware of all the elements that go into making a safe, dependable, defensive driver. Areas that are stressed the most are basic car control, traffic signs, signals, and pavement markings, proficiencies in basic vehicle maneuvers, understanding natural laws and their effects on the car, the IPDE Process and its application, knowledge of city, highway, and expressway driving, skills for driving in adverse conditions, as well as handling emergency situations, the effects of

alcohol and drugs on driving, understanding emotional physical conditions on driving, car insurance and maintenance, and skills needed to plan a trip. *Classes will be filled starting with Seniors and ending with Freshmen.*

West Virginia Virtual School

Virtual or online learning courses may be approved by the WVDE for high school students. Courses are available in the following subject areas: Art; Music; Theatre; Spanish; Latin; Mathematics; Health; English; Science; Social Studies. A complete listing of course titles and course descriptions may be found at <http://virtualschool.k12.wv.us/vschool/courses/coursecatalog.cfm>. Students need to schedule time in their day and have the appropriate technology for these courses. Courses may begin and/or end after the regular school schedule. Students are responsible for following the Virtual School schedule. Arrangements must be made with the school counselor.

WEST VIRGINIA NORTHERN COMMUNITY COLLEGE

You may attend West Virginia Northern on a part-time basis while you are in your senior year in high school and/or during the summer after the end of your junior year. You must submit an application for admission which must be signed by your parent if you are under the age of 18 and your high school indicating that you meet the requirements. You will be required to take course placement testing. You are exempt from placement tests if you have achieved the following ACT scores: Reading 17, English 18, Math 19. All students will be required to successfully complete a writing sample. While you are in high school you are eligible for a reduced tuition rate. Courses offered may be found at www.northern.wvnet.edu.

CTE COURSES

If you enroll in a CTE course either at Magnolia High School or MOVTI you will be subject to the simulated workplace protocols as listed below.

Simulated Workplace Protocols

The overall structure of the Simulated Workplace initiative is governed by a set of protocols to assure consistency and quality in the local implementation of the concept. These protocols include the following requirements:

CTE programs will:

1. Transform the classroom environment into a replicated company;
2. Utilize time clocks or some other form of formal attendance recording process;
3. Drug test all students enrolled in a CTE course at the beginning of the school year;
4. Adhere to the county developed Random Drug Testing Policy, while testing a minimum of 40% of all students enrolled within a Simulated Workplace classroom (where applicable for safety);
5. Conduct an application / interview process for enrolling students;
6. Develop a company name and procedures / protocol manual;
7. Ensure all students receive quality safety training;
8. conduct a 5-10 minute company meeting daily or weekly;

9. Submit Quarterly and Annual reports developed by students and instructor;
10. Establish work teams and an organizational system with students rotating across teams;
11. Integrate the 5S Continuous Quality Improvement principles;
12. Participate in Business and Industry yearly onsite evaluations; and
13. Utilize a portfolio system for students to document learning, credentials earned, projects completed, etc.

**Listed below are the completer programs to be offered the 2017-2018 school year at Magnolia High School. All students are encouraged to become a completer either at Magnolia or MOVTI to assist with their college and career plans. The courses do not have to be taken in the exact order listed unless the instructor requires it.*

Agriculture, Food and Natural Resources Cluster

- **AG 0230 Animal Processing**
 0101 Introduction to Agriculture, Food and Natural Resources
 0139 Fundamental of Animal Processing
 0151 Animal Processing - Retail
 0134 Agricultural Experience Program (Non-Classroom)
- **AG 0110 Power, Structural and Technical Systems**
 0101 Introduction to Agriculture, Food and Natural Resources
 0112 Fundamental of Agriculture Mechanics
 0113 Agriculture Structures
 0134 Agricultural Experience Program (Non-Classroom)
- **AG0210 Plant Systems**
 0101 Introduction to Agriculture, Food and Natural Resources
 0212 Horticulture
 0214 Greenhouse Production and Management
 0134 Agricultural Experience Program (Non-Classroom)
- **AG0170 Natural Resources Management**
 0101 Introduction to Agriculture, Food and Natural Resources
 0200 Natural Resources Management
 0183 Forest Management or 0190 Fish and Wildlife Management
 0134 Agricultural Experience Program (Non-Classroom)
- **AG0120 Agribusiness Systems**
 0101 Introduction to Agriculture, Food and Natural Resources
 0102 The Science of Agriculture
 0134 Agricultural Experience Program (Non-Classroom)

Electives (1 Class)

- 0212 Horticulture
- 0112 Fundamental of Agriculture Mechanics
- 0139 Fundamental of Animal Processing

(The non-classroom courses will be work completed outside of the regular school day)

Business Management and Administration Cluster

- **BM 1465 Management and Administrative Support**

1439 Business and Marketing Essentials

Electives (Choose 3)

1401 Accounting I

1403 Accounting II

1411 BCA I

1413 BCA II

1499 Office Management

- **BM 1410 Accounting**

1401 Accounting I

1403 Accounting II

Electives (Choose 2)

1439 Business and Marketing Essentials

1411 BCA I

1413 BCA II

1449 Office Management

Information Technology Cluster

- **IT1450 Information Management**

1411 BCA I

1431 Digital Imaging/Multimedia I

1455 Web Page Publishing

1413 BCA II

Health Science Cluster

- **HE 1215 Food Science and Nutrition**

0951 Food Preparation

0950 Nutrition and Foods Foundation

0952 Nutrition and Food Science

0953 Nutrition and Food Advanced

Science, Technology, Engineering and Mathematics Cluster

- **ST 2205 Innovations in Science and Technology (Advanced Career)**

1545 AC Innovations in Science and Technology I

1546 AC Innovations in Science and Technology II

1547 AC Innovation in Science and Technology III

1548 AC Innovation in Science and Technology IV

(These courses will be taught in a block section. I and II will be offered to juniors only and III and IV to seniors only after successfully completing I and II)

Manufacturing Cluster

- **MA1980 Welding**

1862 Welding I

1863 Welding II

1864 Welding III

1865 Welding IV

(This program will be offered either in the morning or the afternoon and students will in a block situation with half the day for Welding and the other half the core courses. This program may only be for juniors and seniors.)

Arts, A/V Technology and Communications Cluster

- **AV2010 Performing Arts**

1445 Management and Entrepreneurship

1455 Web Page Publishing

(Choose Specialization)

Instrumental A1

3613 Band III

3614 Band IV

Instrumental A3

3681 Piano I

3682 Piano II

Instrumental A4

3726 Guitar I

3727 Guitar II

Theatrical B

3803 Theatre III

3804 Theatre IV

- **AV 2015 Visual Arts**

1455 Web Page Publishing

3213 Art III

3214 Art IV

AGRICULTURAL, FOOD AND NATURAL RESOURCES (AG)

**All courses may not be available each year.*

AG0120 Agribusiness Systems
AG0230 Animal Processing
AG0110 Power, Structural and Technical Systems
AG0210 Plant Systems
AG0170 Natural Resources Management
AG0120 Agribusiness Systems

Intro to agriculture, food and natural resources: *INTR AG FD&NAT 010100*

Grades 9-12

1 credit/2 semesters

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. Teachers should provide each student with real world learning opportunities and instruction related to selection, development, and maintenance of individual Supervised Agricultural Experience (SAE) programs. Students are encouraged to become active members of FFA, the national youth organization for those enrolled in agricultural education. FFA is an integral component of the program and provides curricular opportunities that enhance student achievement. Teachers should utilize relevant FFA activities to support experiential learning.

The Science of Agriculture: *SCI AG 010200*

Grades 9-12

1 credit/2 semesters

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. Teachers should provide each student with real world learning opportunities and instruction related to selection, development, and maintenance of individual Supervised Agricultural Experience (SAE) programs. Students are encouraged to become active members of FFA, the national youth organization for those enrolled in agricultural education. FFA is an integral component of the program and provides curricular opportunities that enhance student achievement. Teachers should utilize relevant FFA activities to support experiential learning.

Fundamentals of Agriculture Mechanics: *FUND AG MECH 011200*

Grades 9-12

1 credit/2 semesters

This area of study is designed to provide learners with job entry-level skills in the agricultural mechanics industry. Major instructional concepts include an orientation to careers in agricultural mechanics, safety, engines and equipment, drawing and blueprinting, and hand and power tools. Safety instruction is integrated into all activities. Teachers should provide each student with real world learning opportunities and instruction related to selection, development, and maintenance of individual Supervised Agricultural Experience (SAE) programs. Students are encouraged to become active members of FFA, the national youth organization for those enrolled in agricultural education. FFA is an integral component of the program and provides

curricular opportunities that enhance student achievement. Teachers should utilize relevant FFA activities to support experiential learning.

Agricultural Experience Program: *AG EXPER PRG 013400*

Grades 9-12

.5 credit/1 semester

Students enrolled in agricultural education courses have the unique opportunity for experiential and contextual learning on a grand scale. Students may select and participate in appropriate agricultural enterprises which provide opportunity to acquire skills, earn money and develop responsibility while also earning high school credit. This course code (WVEIS 0134) provides county school systems the vehicle whereby credit can be awarded for such individual Supervised Agricultural Experience (SAE) programs occurring as an outgrowth from other agricultural education courses. Students receiving SAE credit are students in other agricultural education courses and are encouraged to become active members of FFA, the national youth organization for those enrolled in agricultural education. FFA is an integral component of the program and provides curricular opportunities that enhance student achievement. Teachers should utilize relevant FFA activities to support experiential learning.

Horticulture: *HORTICULTURE 0212E0*

Grades 10-12

1 credit/2 semesters

This course provides instruction on the broad field of horticulture with emphasis on the scientific and technical knowledge for a career in horticulture. Topics in this course include plant growth and development, plant nutrition, media selection, basic plant identification, pest management, chemical disposal, customer relations, career opportunities, leadership development and entrepreneurial skills. Students 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. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

Fundamentals of Animal Processing: *FUND ANML PROC 0139E0*

Grades 10-12

1 credit/2semesters

*Students enrolling in this class are encouraged to have a ham and/or bacon project and supply their own pig. This course introduces students to the principles and applications of animal processing. Students will learn carcass grading, primal and retail cuts, workplace safety, how to process primal and retail cuts, and entrepreneurship. 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. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

Animal Processing – Retail: *ANIMAL PROC RTL 0139E0*

Grades 10-12

1 credit/2semesters

This course is designed to give students the skills and knowledge needed to enter a career in the retail industry of animal processing. This course will build upon the concepts learned in

Fundamentals of Animal Processing and emphasize retail cut processing, creating value added products, working with the public, and entrepreneurship. 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. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

Agriculture Structures: *AG STRUCTURES 0113E0*

Grades 10-12

1 credit/2semesters

Students will use computer skills to develop simple sketches and plans, read and relate structural plans to specifications and building codes, estimate project costs, use construction/fabrication equipment and tools, and plan and design machinery, equipment, buildings and facilities. 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. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

Greenhouse Production and Management: *GRNHSE PROD 0214E0*

Grades 10-12

1 credit/2semesters

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. Teachers should provide each student with real world learning opportunities and instruction. Students are encouraged to become active members of the student organization, FFA. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

Natural Resources Management: *NATL RESC MGMT 0200E0*

Grades 10-12

1 credit/2semesters

This specialization course covers topics on soil and water conservation, basic wildlife management, environmental law and regulations, basic forestry, and land management. 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. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

Forest Management: *FOREST MGMT 0183E0*

Grades 10-12

1 credit/2semesters

This course is designed to be a basic forestry course for students interested in forestry. The course will cover topics on best management practices, timber felling basics, dendrology, tree measurement basics, water quality, forest fire, read topography maps and basic log road

layout, forest hazards ID, basic forestry concepts of edge, diversity, succession and structure, forest business and economics, forest insects, forest disease, and entrepreneurship. 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. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

Fish and Wildlife Management: *FISH & WLDFL MGT 0190E0*

Grades 10-12

1 credit/2semesters

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. All West Virginia teachers are responsible for classroom instruction that integrates learning skills, technology tools, and skill sets.

HEALTH SCIENCE EDUCATION (HE)

HE1215 Food Science and Nutrition

The Food Science and Nutrition concentration is designed to examine nutrition and wellness practices on long-term health, selection and preparation of nutritious food; processes and issues associated with nutrition and wellness, and the impact of science and technology on nutrition and wellness issues, and nutrition and wellness careers.

Nutrition and Foods Foundation: *NFF 09500*

Grades 9-12

1 credit/2 semesters

This course is designed to examines food preparation and management using the decision-making process; meeting basic needs by applying nutrition and wellness concepts; meeting health and safety needs in planning, preparing and serving food; maximizing resources when planning, preparing and serving food; promoting hospitality in food practices; and analyzing individual and family nutritional needs in relation to change. Students will use reasoning processes, individually and collaboratively, to take responsible action in families, workplaces, and communities. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers will provide each student with real world learning opportunities and instruction.

Food Preparation: *FOOD PREP 095100*

Grades 9-12

1 credit/2 semesters

This course is designed to emphasize 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. Students will use reasoning processes, individually and

collaboratively, to take responsible action in families, workplaces, and communities. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers will provide each student with real world learning opportunities and instruction.

Nutrition and Food Science: *NFS 095200*

Grades 10-12

1 credit/2 semesters

This course is designed to apply scientific principles to the production, processing, preparation, evaluation, and utilization of food. Students will use reasoning processes, individually and collaboratively, to take responsible action in families, workplaces, and communities. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers will provide each student with real world learning opportunities and instruction.

Nutrition and Food Advanced: *NFA 095300*

Grades 10-12

1 credit/2 semesters

This course is designed to examine nutrition and wellness practices on long-term health; planning for wellness and fitness; selection and preparation of nutritious food based on USDA Dietary Guidelines; processes and issues associated with nutrition and wellness; the impact of science and technology on nutrition and wellness issues; and nutrition and wellness career paths. Students will use reasoning processes, individually and collaboratively, to take responsible action in families, workplaces, and communities. Students utilize problem-solving techniques and participate in hands-on activities to develop an understanding of course concepts. Teachers will provide each student with real world learning opportunities and instruction.