

Juniata County School District

Grades 9 - 12



Course Description Booklet
2018-2019

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LIST OF COURSES OFFERED

(Numbers in parentheses indicate credit value of the course.)

ENGLISH (p.4-6)

- (1) English 9
- (1) CP English 9
- (1) English 10
- (1) CP English 10*
- (1) English 11
- (1) CP English 11*
- (1) English 12
- (1) CP English 12*
- (1) AP Language and Composition**
- (1) AP Literature and Composition**
- (0.6) Accelerated Reader

SOCIAL STUDIES (p.6-7)

- (1) Civics
- (1) World History
- (1) United States History
- (1) Problems of Democracy/Economics
- (1) AP U.S. History**

MATH (p.7-9)

- (1) Algebra I Part I
- (1) Algebra I Part II
- (1) Business Math
- (1) Algebra I
- (1) Algebra II
- (1) Geometry
- (1) Algebra III/Trigonometry
- (1) AP Calculus**
- (1) Statistics

SCIENCE (p.9-10)

- (1) Physical Science
- (1) General Science
- (1) Biology
- (1) Advanced Biology*
- (1.5) Chemistry
- (1) Advanced Chemistry*
- (1) Physics

P.E. / Health (p.9)

- (0.4) Physical Education

(0.4) Health

FOREIGN LANGUAGE (p.10-11)

- (1) Spanish I
- (1) Spanish II
- (1) Spanish III
- (1) Spanish IV
- (1) Spanish V
- (1) Spanish VI

BUSINESS/COMPUTERS (p.11-12)

- (1) Document Processing
- (1) Media Studies and Production
- (1) Spreadsheets
- (1) Programming I
- (1) Programming II
- (1) AP Computer Science Principles**
- (1) AP Computer Science A**

ARTS/HUMANITIES (p.12-14)

- (1) Sociology/Psychology (Elective)
- (0.5) Band
- (0.5) Chorus
- (1) Music Appreciation - Music of the 20th Century
- (1) Speech
- (1) Art
- (1) Drawing
- (1) Painting
- (1) Printmaking/Sculpture
- (1) Industrial Arts
- (1) Child Development
- (1) Individual & Family Studies
- (1) Career and Consumer Science
- (0.4) Professional Growth

VOCATIONAL (p.14-17)

- (1) Intro to CADD
- (3) Computer Aided Drafting and Design I
- (3) Computer Aided Drafting and Design II
- (3) Computer Aided Drafting and Design III
- (1) Agricultural Education I
- (1) Large Animal Science I
- (1) Veterinary Science I
- (1) Plant and Soil Science
- (1) Wildlife and Fisheries Science I
- (1) Ag Mechanics I
- (1) Ag Mechanics II
- (1) Ag Mechanics III
- (1) Forestry
- (1) FFA & Leadership

- (1) AG SAE I, II, III, IV
- (3) Building/Construction Trades
- (3) Mifflin County Academy of Science & Technology

*These courses are weighted 1.1 in GPA calculations

**These courses are weighted 1.25 in GPA calculations

COURSE DESCRIPTIONS

ENGLISH

****All College Preparatory (CP) English classes are considered to be upper-level courses and will, therefore, require more work and will be much more academically challenging than non-college prep. English classes. Due to the level of difficulty of these college preparatory English classes, it is not recommended that students who are currently taking a general English class switch to college prep. English for the following year. However, if a general English student does wish to switch to college prep. English, he/she must have at least a 90% average in his/her current general English class. In addition, he/she must obtain a letter of recommendation from his/her current general English teacher.**

ENGLISH 9

Grade 9

Periods per cycle: 6

The speed and educational level of this course are designed for students who are preparing for the job force or for students who are preparing for a technical post-high school education. The curriculum for English 9 will consist of grammar, writing, and literature. Grammar elements related to improving writing skills may be reviewed. Writing done for this class will be expository, persuasive, creative, or descriptive. To gain practice in improving analyzing skills, students will examine various literature genres such as the short story, nonfiction, poetry, and drama.

COLLEGE PREP (CP) ENGLISH 9

Grade 9

Periods per cycle: 6

This course will largely be literature-based, with particular emphasis on the various genres and their elements. Through the study of literature, students will also be introduced to the use of critical thinking skills and incorporating analysis to draw conclusions. Writing and working to improve writing skills will also be a large part of this course. The only grammar that will be taught will be those elements that would help to enhance writing skills. Since this will be such an academically demanding course, students will be placed using the policy developed by the placement committee. Students will be required to write one research paper.

ENGLISH 10

Grade 10

Periods per cycle: 6

This course will address the tenth grade curriculum of analyzing world literature by focusing on understanding grammatical elements and their relation to writing; improving writing skills in persuasive, creative, and informative compositions; and improving critical thinking skills by analyzing literature. The speed and educational level of this course are designed for students who are preparing for the job force or who are preparing for a technical post-high school education.

COLLEGE PREP (CP) ENGLISH 10

Grade 10

Periods per cycle: 6

Since this is the second step in the college prep. English sequence, this class will have a much higher level of difficulty than was found in college prep. English 9. The curriculum for this class will focus on analyzing world literature. It will include the study of different literary works and their elements so as to improve critical thinking/critical analyzing skills as well as the study of writing, including both writing styles and writing techniques, both of which will be essential for college as well as for the next level of this course sequence. It is strongly recommended that a student should have achieved a 75% or better in his/her college prep. English 9 class before taking this class.

ENGLISH 11

Grade 11

Periods per cycle: 6

This course is designed to meet, support, and strengthen the needs of a student who is preparing for the job force or a technical post-high school education. We cover literary elements through the reading of American literature, learn formats of writing informative, persuasive, and narrative styles, and learn and practice grammar, vocabulary, and writing skills. Transition skills such as business letter writing, resume writing, and interviewing will also be part of the curriculum. Students will learn the proper method of research writing, explore careers, and practice professional writing and communication skills while enhancing critical thinking skills.

COLLEGE PREP (CP) ENGLISH 11

Grade 11

Periods per cycle: 6

This course is designed for students planning to attend college after graduation. The course involves a survey of American literature from the founding fathers to the present in the genres of poetry, nonfiction, short stories, novels, and drama. Through the study of literature, students will also be required to use critical thinking skills and incorporate analysis into discussions and writings. The other primary component is enhancing skills in writing informative, persuasive, and narrative pieces. A research project and required readings are included in order to fortify critical thinking skills. Vocabulary and review of grammar and mechanics are also included. It is strongly recommended that a student should have achieved a 75% or better in his/her college prep. English 10 class before taking this class.

ENGLISH 12

Grade 12

Periods per cycle: 6

This course is designed for the business or vocational student with an emphasis on preparing for the job force or a technical post-high school education. The curriculum will include grammar, writing, and vocabulary, especially as they relate to formal writing. Studying genres of British literature such as short stories, nonfiction, drama, the novel, and poetry will enable students to utilize comprehension skills as well as analyzing skills.

COLLEGE PREP (CP) ENGLISH 12

Grade 12

Periods per cycle: 6

This course is designed for students' planning to further their education after graduation. The course includes a survey of British literature from *Beowulf* to the present. All genres and periods will receive coverage. Many means of writing will be explored including critical analysis and researched-based projects. Required reading and vocabulary are also generally included. Students earning less than 75% in previous college prep English classes may have difficulty excelling in this class.

AP LANGUAGE AND COMPOSITION

Grades 11 (E.J.H.S. only)

Periods per cycle: 6

Course Description:

Advanced Placement English Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. The course will focus on expository, analytical, and argumentative writing that forms the basis of academic and professional communication as well as the personal and reflective writing that fosters the development of writing facility in any context. Its purpose is to enable students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers.

Entrance Requirements:

AP Language and Composition requires students to write essays through several stages of drafts, with revision aided by teacher and peers in order to develop students' awareness of their own composing processes: the way they explore ideas, reconsider strategies, and revise their work. The content, skills, and processes of the course are designed to provide students with a solid foundation in preparation for the AP English Language and Composition Exam. A student interested in taking AP Language and Composition will

need at least an 85% mark in their CP 10 or CP 11 English class, and he/she will need a recommendation from a former English teacher to take this course.

AP LITERATURE AND COMPOSITION

Grade 12

Periods per cycle: 6

Advanced Placement English Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, styles, and themes as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. Furthermore, students will have an opportunity to earn college credits if they choose to take the AP College Board national exam at the end of the year. *Entrance Requirements continued on next page.*

Entrance Requirements:

AP Literature and Composition requires discussion, critiques and feedback about established literature and about each student's work. Students must share their work and critique others' work. Students will be expected to read 15-20 novels and plays (several expected to be read over the summer before their senior years). A student interested in taking AP Literature and composition will need at least an 85% from their CP 11 English class, and he/she will need a recommendation from a former English teacher to take this course.

ACCELERATED READER

Grades 9-12

Periods per cycle: 4

This is an individualized, guided independent reading program that has been shown to improve student reading and comprehension, fluency, vocabulary, critical reading ability, and retention of what is read. In addition, students learn valuable time management skills. This improvement positively impacts all subject areas.

Social Studies

CIVICS

Grade 9

Periods per cycle: 6

Civics is the study of local, state, and national government within the United States of America. This includes the structures of, functions of, and interrelationships between these three levels of government. Included within the course are overviews of the mechanics of our capitalist economy. The course discusses the history of American government and the formation of the three levels with emphasis on Pennsylvania history and Juniata County government. Concentration at all levels is given to the three branches of government and how they interact with each other.

WORLD HISTORY

Grade 10

Periods per cycle: 6

World history is an historical approach to the last 500 years in world history. Areas covered include the Protestant Reformation; Democratic revolutions in England, America, France, and Latin America; the Industrial Revolution; Imperialism and World War I; the Soviet Union/Communism; Depression/Dictatorships/World War II; the Cold War and the superpowers; Global Interdependence; Asia, Africa, Middle East, and Latin America; and Economic/Environment/the future.

UNITED STATES HISTORY

Grade 11

Periods per cycle: 6

United States history from 1929 to the present is a broad study of the domestic and international history of the United States covering economic, social, cultural, and political issues our nation faced throughout the twentieth century. This course will examine chronologically, by decades, the interaction of these issues that shaped our past and continue to affect America today. The class will focus on vocabulary and the men and women in the twentieth century. We will link the past to the present as required by the Pennsylvania Standards for United States history.

PROBLEMS OF DEMOCRACY / ECONOMICS

Periods per cycle: 6

Grade 12

This course consists of one semester of Problems of Democracy and one semester of Economics. Problems of Democracy will begin with a review of the Constitution and workings of the Federal Government. Students will examine the policy-making process and the role of the citizen, the media, and other groups in that process. Emphasis is placed on specific policy areas and current events which relate to each. The Economics portion deals with a study of our capitalist mixed economy. Students will become familiar with basic microeconomic and macroeconomic concepts. This will include supply and demand analysis, economic institutions, economic policies, and global economics and international trade. Attention will also be given to personal finance and investment which will include a personal budget project.

AP US HISTORY

Grade 11 & 12

Periods per cycle: 6

This AP US History is a challenging class that is designed to be the equivalent of a freshman college course in a high school setting. It is a year-long survey of American history from the age of exploration to the present. The course offers an issue-oriented approach in the study of the people of the US and their history. Major themes and traditions that make America exceptional will be explained in great detail. The course is designed to acquaint students with core characteristics and values found throughout our history. An analysis of those events and significant individuals will be done on a continuous basis.

Students will be required to apply the effort necessary to act as an historian and develop the ability to analyze historical evidence to determine its validity and relevance identify point of view and the nature of bias, and recognize the necessity of objectivity and substantiation. Students will be expected to read assigned passages from the required reading list prior to class meetings as well as outside materials as is necessary. Students should be prepared to read on a regular basis (approx. 6-10 hours per week). The volume of material involved in this course is extensive and students will need to commit designating time for reading in order to be successful in the course.

Class discussions will be based on the assigned reading and students will be expected to participate in those discussions. Studies have consistently shown that students who participate in class discussions and activities are more likely to grasp the learning objectives. The AP exam will be offered in May for students to take. Based on the score of student's exam, college credit will be given for US History.

ENTRANCE REQUIREMENTS

Students are required to have a 90% cumulative average for all social studies classes starting with grade 9 and a 85% cumulative average for all English classes starting with grade 9. Students who wish to take the course as juniors would also need a letter of recommendation from their 10th grade social studies and English teachers.

Math**Algebra 1 Part 1**

Grades 9-12

Periods per cycle: 6

This course is required for all students who do not score proficient or advanced on the Algebra I Keystone Exam. Algebra 1 Part 1 focuses on the first module of the Algebra1 common core standards. The students will be exposed to an in-depth look at operations with real numbers and expressions, linear equations, and linear inequalities. The course will provide an emphasis on the problem solving strategies that the common core algebra demands.

Algebra 1 Part 2

Grades 9-12

Periods per cycle: 6

This course is required for all students who do not score proficient or advanced on the Algebra I Keystone Exam. Algebra 1 Part 2 focuses on the second module of the Algebra1 common core standards. The students will be exposed to an in-depth look at exponents, polynomials, quadratic functions, radical expressions & equations, rational expressions & functions, and data analysis with probability. The course will provide an emphasis on the problem solving strategies that the common core algebra demands. At the conclusion of the course, all students will take or retake the Algebra I Keystone Exam.

BUSINESS MATH

Grades 12 (Grade 11 By Permission)

Periods per cycle: 6

PREREQUISITE: Completion of Algebra I pt 2 or Algebra II

This course begins with a review of general math and then provides instruction in the following areas: budgeting, borrowing, saving and investing money; home and transportation expenses; taxes and insurance; and skills involved in the operation of a business. Good basic math skills are important for this course.

ALGEBRA I

Grades 9-12

Periods per cycle: 6

PREREQUISITE: Must pass Math 8 or Pre-Algebra

Algebra is the study of numbers, the symbols that represent numbers, and the relations and operations between numbers. The real number system will be explored, including irrationals in radical form. Polynomial operations and linear functions will be studied in detail. Students earning less than 80% in previous math classes may have difficulty excelling in this course.

ALGEBRA II

Grades 9-12

Periods per cycle: 6

PREREQUISITE: Algebra I

Algebra II is the continued study of number symbols and number properties. Emphasis will be given to operations with real numbers in radical form and to rational expressions. Applications will be made in the areas of word problems, graphing linear and quadratic functions, and probability and statistics. Students who earned less than an 80% in Algebra I may experience difficulty in this course.

GEOMETRY

Grades 10-12

Periods per cycle: 6

PREREQUISITE: Algebra I

This geometry course deals with the properties and relations of plane figures (such as angles, triangles, polygons, & circles) which can be constructed with a straight edge protractor and compass. The course also deals with elementary trigonometry in right triangles. Proofs are also included in the instruction. Students who did not earn a final percentage of 80% in Algebra may experience difficulty in this course.

ALGEBRA III & TRIGONOMETRY

Grades 11-12

Periods per cycle: 6

PREREQUISITE: Algebra I, II, & Geometry

This course deals with a rigid review of Algebra II, elementary concepts of Algebra III, polynomial function graphing techniques, trigonometric function graphs, trigonometry from right triangles through oblique triangles (laws of sines & cosines), elementary analytic geometry, and an introduction to logarithms. Students who did not earn a final percentage of 80% in Geometry *and* Algebra II may experience difficulty in this course.

AP CALCULUS AB

Grades 11-12

Periods per cycle: 6

PREREQUISITE: Algebra I & II, Geometry, Trigonometry

Calculus is the study of certain properties of numbers that help develop the concept of "limit." This concept is used to develop the two techniques of differentiation and integration and to apply these techniques to problem solving situations. The basic and many advanced mechanics of calculus are stressed with the emphasis on theory left for the student's college study. The mechanics of polynomial, rational, exponential, logarithmic, and trigonometric functions are practiced and applied to practical problems. These problems range from area and volume, ballistics to optimization, and rates of change. Topics covered include those recommended by

the College Board for an advanced placement course. Students who did not earn a final percentage of 80% in trigonometry may experience difficulty in this course.

STATISTICS

Grade 11-12

Periods per cycle: Online Only

PREREQUISITE: AP Calculus AB or permission by instructor

Statistics introduces students to the major concepts and tools used to collect, analyze and draw conclusions from data. The four basic conceptual themes studied are exploring data, sampling and experimentation, anticipating patterns and statistical inference.

Science

PHYSICAL SCIENCE

Grade 9-10

Periods per cycle: 6

This course consists of approximately 2/3 basic chemistry and 1/3 fundamental physics. Topics to be covered include describing and measuring matter, the states of matter, atomic structure, elements and the periodic table, chemical bonding, chemical reactions, and solutions. The physics portion of the course focuses on forces and motion, laws of motion, forces in fluids, energy, work, and simple machines.

GENERAL SCIENCE

Grades 10-12

Periods per cycle: 6

This course may be required as remediation students who do not score proficient or advanced on the Biology Keystone Exam. This course is a non-math science course that explores environmental, chemical, and physical science. Units of study will include wetlands and watersheds, natural resources, and other environmental topics. At the conclusion of the course, all students will retake the Biology Keystone Exam.

BIOLOGY

Grades 10-12

Periods per cycle: 6

PREREQUISITE: Physical Science (or taken concurrently)

Biology is an introduction to the study of living things. Students will be exposed to processes used in biology through various lab activities. Academic emphasis is placed upon cell biology, biochemistry, genetics, taxonomy, evolution, zoology, and botany.

ADVANCED BIOLOGY

Grades 11-12

Periods per cycle: 6

PREREQUISITE: Biology and Chemistry

This course is available to students who have completed Biology and Chemistry or are taking Chemistry concurrently. It is the rigorous study of cell biology, genetics, and plant and animal physiology. Students are required to pass Biology with an 80% to proceed to this course. **Students will have the opportunity to earn college credit through Harrisburg University through this course (pending admittance).**

CHEMISTRY

Grades 11-12

Periods per cycle: 9

PREREQUISITE: Algebra

Chemistry is a rigorous course designed for those students who have a strong math background and wish to further their education beyond the high school level. Topics covered will include a study of compounds, their reactions, and problem solving based on those reactions; phases of matter and their characteristics; atomic structure in terms of properties, bonding, and periodicity; nuclear chemistry, and chemical kinetics. These topics are covered through lecture and discussion, independent and cooperative study, and laboratory experiments. Students who have not earned a 75% or higher in both algebra and biology will have much difficulty in this course.

ADVANCED CHEMISTRY

Grades 12

Periods per cycle: 6

PREREQUISITE: Chemistry

Advanced chemistry is a continuation of chemistry with topics covered to include colligative properties, acids and bases, oxidation-reduction, organic chemistry, and solution chemistry. Students who have not earned a 80% or higher in Chemistry will have much difficulty in this course. **Students will have the opportunity to earn college credit through the Pennsylvania College of Technology through this course (pending admittance via placement testing).**

PHYSICS

Grade 12

Periods per cycle: 6

PREREQUISITE: Algebra I & II and Geometry

Physics is a fundamental science and should be included in the college preparatory science sequence. This course is a math-based description of matter and energy. It includes mechanics which deal with motion and force, and energy and momentum. It contains a description of the structure of matter, and then how heat energy affects that matter. Finally, the course gives explanations of the properties of waves and their effects on matter. Your math and problem-solving skills will be developed further when you use and understand better the workings of the world you experience each day of your life.

P.E. / Health**PHYSICAL EDUCATION**

Grades 9-12

Periods per cycle: 2

This physical education class will provide a wide variety of activities to meet the mental, physical, social, and emotional needs, as well as the interests and abilities of all students. The activities are designed to develop positive attitudes, a desire to participate and cooperate, physical fitness, and an appreciation and understanding of the basic skills and rules of team, individual, and lifetime sports. Ongoing assessment may include both written and participation based evaluations. The main focus of this course is on team sports, individual and dual sports, and recreational games.

HEALTH

Grade 9

Periods per cycle: 2

Health education is a science which aims at providing a better understanding of one's self and the development of proper habits and attitudes toward healthful living. This is made possible by the study of such units as mental/emotional health, stress, body systems, nutrition, physical fitness, tobacco, alcohol, drugs, human reproductive systems, sexually transmitted diseases, and AIDS. The students learn basic information about each area and then branch out into three main directions – how it can be harmful for them and others, prevention, and what help is available.

Foreign Language**SPANISH I**

Grades 9-12

Periods per cycle: 6

This academic course is designed for college-preparatory students. The student will develop basic skill levels in listening, reading, writing, and speaking Spanish. To succeed in this course, the student must memorize vocabulary and understand and apply correct grammatical structures. There will also be material presented about the cultures of the Spanish speaking world. It is strongly

recommended that students possess strong academic English skills. Students are required to achieve a 70% in order to move to the next level of Spanish

SPANISH II

Grades 9-12

Periods per cycle: 6

PREREQUISITE: Spanish I

This academic course is designated for college-preparatory students. The student will further enrich his vocabulary, as well as develop more complex grammar skills. The student will also continue to study culture and to become more involved in writing, in addition to reading, listening, understanding and speaking Spanish. More time in memorization is required to master these skills. Students are required to achieve a 70% in order to move to the next level of Spanish.

SPANISH III

Grades 10-12

Periods per cycle: 6

PREREQUISITE: Spanish II

This course covers the more advanced grammar concepts in the language through various group activities and games. Grammar practice and language acquisition are also accompanied by role-play and interactive activities. Reading and writing are emphasized through literary works and essays. The history of Spain is noted in its culture, art, and its people. Students are allowed to express themselves in the target language by interaction with one another and the teacher. Videos are sometimes presented to allow for a better understanding of a particular concept. Students are required to achieve a 70% in order to move to the next level of Spanish

SPANISH IV

Grade 11-12

Periods per cycle: 6

PREREQUISITE: Spanish III

The students will gain a high level of proficiency in reading, writing, listening and speaking. They will cover all grammar structures and continue to increase their vocabulary. The culture of Central and South America and the Caribbean will be emphasized. Presentations and projects are an important part of the course. Students are required to achieve a 70% in order to move to the next level of Spanish

SPANISH V

Grades 11-12

Periods per cycle: 6

PREREQUISITE: Spanish IV

This advanced level course includes a wide variety of literature including short stories, essays, and poems from Spanish-speaking countries. Authentic language is presented in context with cultural perspectives. Students will enhance their writing skills with grammar review lessons and continue to increase their vocabulary. Audio and video selections accompany this course. The students will attain a higher level of proficiency in reading, writing, listening, and speaking. Students are required to achieve a 70% in order to move to the next level of Spanish

SPANISH VI

Grades 11-12

Periods per cycle: 6

PREREQUISITE: Spanish V

This advanced level course includes a wide variety of literature including short stories, essays, and poems from Spanish-speaking countries. Authentic language is presented in context with cultural perspectives. Students will refine their writing skills with grammar review lessons and continue to enrich their vocabulary. Audio and video selections accompany this course. The students will attain the highest level of proficiency in reading, writing, listening, and speaking. Students are required to achieve a 70% in order to move to the next level of Spanish.

Business/Computers

DOCUMENT PROCESSING

Grades 9-12

Periods per cycle: 6

After reviewing keyboarding and formatting skills, students will proceed to document processing (skilled production of letters, reports, tables, blogs, and other communications forms). Students will then progress into a desktop publishing unit followed by a unit featuring the applications of media. Students will be using Microsoft Office Programs, Google programs, and a variety of third party programs.

MEDIA STUDIES AND PRODUCTION

Grades 9-12

Periods per cycle: 6

During this course students will take their interests and creating different types of media projects. Concrete subjects covered will consist of: modifying audio clips, computer animation, 3D plotting, video creation, and information processing. At the beginning of each unit students will observe and analyze a different type of electronic media. As they develop a mastery of the theories, they will practice by creating their own pieces of digital media. Productions will be creative in nature, but they will serve a purpose and meet a standard.

SPREADSHEETS

Grades 9-12

Periods per cycle: 6

PREREQUISITE: 70% in Algebra I (for 9th grade eligibility)

In this course, students will learn the basic components of spreadsheets including database management and graphics. Various features and functions will be mastered through the use of lessons and projects in Microsoft Excel. Students will learn how spreadsheets are created and organized to locate useful information.

PROGRAMMING I (With Web Development)

Grades 11-12

Periods per cycle: 6

PREREQUISITE: Spreadsheets

Students will be introduced to Microsoft Visual Basic 6.0. In Visual Basic, students learn how to program in a Windows-based environment and understand how the user can organize and store large amounts of information in their own self-created programs. In Dreamweaver, students will learn how to design web pages and web sites through the use of HTML and user interface processes. Students will also be assigned to create their own personal webpage, which, after review by the instructor, may be published to the school website. Students who are looking at entering into a post-secondary school to focus on any type of computer major are encouraged to take this course. **Students will have the opportunity to earn college credit through the Pennsylvania College of Technology through this course (pending admittance via placement testing).**

PROGRAMMING II

Grade 12

Periods per cycle: 6

PREREQUISITE: Programming I

Advanced topics in Visual Basics will be covered. Students in C++ will use a text based programming language to gain an understanding of an additional programming language. Students will also use multimedia software to create various productions such as animation, video, and audio.

AP COMPUTER SCIENCE PRINCIPLES

Grade 12

Periods per cycle: Online Only

PREREQUISITE: Programming I

The AP Computer Science Principles course is designed to be equivalent to a first semester introductory college computing course. In this course, students will develop computational thinking skills vital for success across all disciplines, such as using computational tools to analyze and study data and working with large data sets to analyze, visualize, and draw conclusions from trends. The course is unique in its focus on fostering student creativity. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer software and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

AP COMPUTER SCIENCE PRINCIPLES

Grade 12

Periods per cycle: Online Only

PREREQUISITE: Programming I

The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.

INTRO TO CADD (COMPUTER AIDED DRAFTING & DESIGN)

Grades 9-12

Periods per cycle: 6

Focuses on exposing students to the design process, research and development, team projects, global and human impacts on technology, problem solving skills, and engineering technical documentation. This course provides students with opportunities to learn about the history, systems, and processes of invention and innovation using numerous group and individual hands-on-projects. The class is intended to help students understand the field of engineering and engineering technology and its career possibilities.

Arts / Humanities

SOCIOLOGY/PSYCHOLOGY (Elective)

Grade 12 ONLY

Periods per cycle: 6

Sociology is a study of human relationships. Topics include socialization, deviance, social structure, marriage, family, divorce, social stratification, education, religion, research methods, groups, and culture. Psychology is a study of the human mind and its manifestations. The field of psychology and the methods used by psychologists will be examined. Other topics include the brain, body, and awareness, cognitive processes, human development, personality, and psychological disorders. This course is for college-preparatory students only.

BAND

Grades 9-12

Periods per cycle: 3

This is a group of experienced instrumentalists who have been trained through preceding organizations, however, all interested musicians are encouraged to participate regardless of experience. The concert band presents concerts at Christmas and in the spring featuring musical selections displaying a well-rounded variety of musical styles. The marching band performs in football game half-time/pre-game field shows, the annual Juniata County Marching Band Festival, and many parades. The marching band's schedule includes performances during the fall, spring, and summer months. From the total year-round program have come the representatives to district, regional, and state festivals.

CHORUS

Grades 9-12

Periods per cycle: 3

This is a group of experienced singers who have been trained throughout preceding choruses. They perform a variety of choral music and styles which include four, five, and six-part singing. Vocal techniques are taught at each rehearsal in order to improve one's singing ability and enjoyment of the art. This large ensemble performs at Christmas-In-The-Park, in the Christmas Cantata, Spring

Concert, and at Baccalaureate. From this organization have come the representatives to the District, Regional, All-State, and All-Eastern Festival choruses.

MUSIC APPRECIATION - Music of the 20th Century

Periods per cycle: 6

Grades 9-12

This course will explore the musical styles of the 20th Century including (but not limited to) music of the jazz, folk, classical, country and rock eras. Students will explore and experience the music of the 20th Century through recordings and printed word about the artists and their music. Historical and cultural significance will be recounted as we learn to listen and explore for more than entertainment in our musical examples.

SPEECH

Periods per cycle: 6

Grade 12

This course is designed to introduce students to the art of public speaking. Students will focus not only on public speaking but also on writing, organizing, and preparing different types of speeches for their peers. There is an emphasis upon speech, thinking, and listening skills and any student, whether planning to attend college or not, can benefit from the organizational skills emphasized in this course. Students are also responsible for the news program in the morning.

ART

Periods per cycle: 6

Grades 9-12 (J.H.S. Only)

Students will learn techniques of various media as they relate to art history, criticism, aesthetics, and both historical and contemporary studio practices. Students will also be involved in both discussion and writing about the meanings of works of art as they are found in various cultures and time frames. Information is provided through lectures, use of reproductions, and a textbook. Mediums such as drawing, painting, printmaking, and sculpture will be discussed.

DRAWING

Periods per cycle: 6

Grades 10-12 (E.J.H.S. Only)

Basic techniques and media of drawing will be explored. Students study line, tone, form, and composition. Development in the four content areas of art history, art criticism, aesthetics, and art production will be stressed.

PAINTING

Periods per cycle: 6

Grades 10-12 (E.J.H.S. Only)

This course provides an introduction to the various media and subject possibilities of painting. Student artists build strong foundations in art history, art criticism, aesthetics, and production. The emphasis is on composition and the handling of paint and color.

PRINTMAKING/SCULPTURE

Periods per cycle: 6

Grades 10-12 (E.J.H.S. Only)

This course offers half-year studies of both art forms under one selection:

Printmaking: An introduction to the basics of printmaking and how printed images are created. The course examines the use of tools and techniques used in printmaking.

Sculpture: Students are introduced to ideas and materials that stimulate a response to three-dimensional forms. Modeling, carving, and constructing methods will be explored.

INDUSTRIAL ARTS

Periods per cycle: 6

Grade 9-12

This course provides an introduction to various areas of industrial arts materials including wood, metals, glass, and plastics, as well as construction techniques used in the implementation of these materials to produce a useful product. Proper power tool set-up,

operation, and safety are emphasized throughout the course. Mass production is also introduced for the students to experience. As this is a very product-oriented course, strong emphasis is placed on each student producing an individual project. **Senior high industrial arts students will be responsible for purchasing their wood and other supplies outside of school.**

CHILD DEVELOPMENT

Grades 9-12

Periods per cycle: 6

This course focuses entirely on the physical, intellectual, emotional and social development of children from birth until age 5. Many theories and current issues affecting child development will be explored at each stage of development. This course is ideal for anyone interested in working with children in the fields of education, nursing, and social work or just loves children.

CAREER AND CONSUMER SCIENCE

Grades 11-12 (E.J.H.S Only)

Periods per cycle: 6

This course will address the knowledge, skills, and behaviors students need to be prepared for success in college, career and life. The focus is on topics necessary for 21st century life, college and career skills such as interest and skill surveys, career, college and post-secondary options, employability skills and financial literacy.

INDIVIDUAL & FAMILY STUDIES

Grades 9-12

Periods per cycle: 6

This course is a comprehensive program open to grades 9-12 that will explore a variety of skills and topics necessary for real life. Content areas include human development topics, the family and relationships, money management, independent living skills, nutrition, and food preparation.

PROFESSIONAL GROWTH

Grade 9

Periods per cycle: 2

Students will be given instruction on how to begin thinking about their transition from school to work, as well as their transition from teenager to adult. This includes the many health aspects that are important as one grows up and the methods of opportunity and responsibility one must incur as they become an adult. Part of this course, which meets two days per cycle, incorporates material from the text *The 7 Habits of Highly Effective Teens*.

Note: The “health aspects” of this class are covered by the health curriculum at E.J. They are not included as part of Professional Growth at E.J.

Vocational

COMPUTER AIDED DRAFTING AND DESIGN I

Grades 10-12

Periods per cycle: 18

Computer Aided Drafting and Design(CADD) is the use of computers to assist drafters and engineers to create objects in various applications, including automotive, roadway, bridges, aerospace, architectural design, and many more.

This course provides basic knowledge and skills for students to pursue a career as a drafter or an engineer. Topics covered in this course include: Orientation, Introduction to Drafting and Design, Geometric Construction, Lettering, Freehand Drawing and Sketching, Engineering Math, Dimensioning, Introduction to Mechanical Drawing and Design, and Computer Aided Drafting.

COMPUTER AIDED DRAFTING AND DESIGN II

Grades 11-12

Periods per cycle: 18

This course builds upon the basic knowledge obtained in CADD I. The first semester will cover Introduction to Architecture. During the second semester students will focus on advanced Mechanical and Computer Aided Drafting skills/Parametric Solid Models.

COMPUTER AIDED DRAFTING AND DESIGN III

Grades 12

Periods per cycle: 18

This course continues to build upon prior knowledge in CADD II & III. The first semester will cover Introduction to Civil Drafting and Introduction to Electrical and Electronic Drafting. During the second semester students will focus on advanced Architecture Drafting/Revit.

HEALTH PROFESSIONS I - Periods 1-3(4)

Grades 10-12

Periods per cycle: 18

This course provides basic knowledge and skills that are important to a wide variety of health care careers. Topics covered in this course include: Orientation and safety; communications (chain of command); infection control; safety and body mechanics; emergency care and disaster preparedness (basic first aid and fire safety); basic clinical skills including all vital signs, height and weight, sterile/nonsterile dressings; medical terminology; anatomy (organs and functions); and medical math.

HEALTH PROFESSIONS II - Periods 5-7

Grades 11-12

Periods per cycle: 18

PREREQUISITE: Health Professions I

This course builds upon the basic knowledge gained in health professions I. Topics covered in this course include: Orientation and safety (important in case of changes in school policy) including stress and conflict management; communication; safety and body mechanics as they apply to restraints, sensory deprived clients, and a safe client environment; moving lifting, and positioning; personal care skills; urinary and bowel elimination; nutrition and hydration; basic clinical skills including elastic stockings and bedmaking tasks; mental health including reality orientation, communicating with the easily agitated client, and techniques for clients exhibiting repetitive behaviors; medical math; and medical terminology.

Health Professions III Rotation Periods 5-7

Grade 12

Periods per Cycle: 18

PREREQUISITE: Health Professions II

This course continues to build upon the knowledge gained in health professions II. Topics covered in this course include: Orientation and safety (important in case of changes in school policy); legal and ethical issues; emergency care and disaster preparedness (obstructed airway, BLS, AED, and crisis plan procedures); human needs and human development; mental health and mental illness; rehabilitation and restorative care; death and dying; medical terminology; allied health skills; physiology and pathophysiology (how body systems operate and function together and diseases of the body systems); and medical math.

****NOCTI Examination: This examination is given to all senior health professions students who have completed a minimum of 50% of the three year program. This exam includes both written knowledge and skill competence. Certificates will be awarded to those who earn a competent or advanced level on this national exam.**

AGRICULTURAL EDUCATION I

Periods per cycle: 6

Grade 9 – 12

This is a course for students interested in exploring basic scientific aspects in agriculture. Classroom topics include exploring agricultural careers, animal science, animal nutrition, large animal management, small animal management, nutrient cycles, record keeping, plant science and international agriculture. A history of the National FFA organization is also part of this course. This is a preliminary course in agriculture and is intended for students who will be taking agriculture in 10th, 11th and 12th grade. There will NOT be a shop component to this course due to the scientific content. However, Greenhouse and Garden Labs are part of this class. Students taking this course will also be eligible to participate in FFA activities.

LARGE ANIMAL SCIENCE I

Grades 10 – 12

Periods per cycle: 6

PREREQUISITE: Agricultural Education I or Biology

This course is designed for students who plan on post-secondary education in Animal Science or related field. To fulfill the science requirement for this course, students will study the fundamentals of biology, nutrition, animal digestion, genetics, and reproduction of most large animal species. Students will also learn about the milk and meat industries and management of all major large animal species. An introduction to veterinary science will also be part of this course. This course will fulfill a science credit. Students taking this course will also be eligible to participate in FFA activities.

ANIMAL SCIENCE

Grades 10 – 12

Periods per cycle: 6

PREREQUISITE: Agricultural Education I or Biology

This course is designed for students who plan on post-secondary education in the animal science or related field. Topics to be covered in this course will be the identification of the organs and functions of the pulmonary, circulatory, and immune systems; discussion of environmental factors of disease, description of the epidemiology triangle; explanation of external contacts, internal fractures, and malpositions that may cause disease; descriptions and explanations of the diseases of the digestive, respiratory, tissue types, reproductive, musculoskeletal system. This course is offered to fulfill a general science requirement. Students taking this course will also be eligible to participate in FFA activities.

PLANT AND SOIL SCIENCE

Grades 10-12

Periods per cycle: 6

PREREQUISITE: Agricultural Education I or Biology

This course is designed for students who plan on post-secondary education in the horticulture, agronomy, or other plant sciences field. Topics to be covered in this course will be plant reproduction, plant nutrition, managing agricultural soils, environmental factors that effect plant growth, plant identification, integrated pest management, field crop and specialty crop production, fruit and vegetable production, greenhouse management, and nursery management and production. Greenhouse, Nursery and Outside Garden Work are part of this class. This course is offered to fulfill a general science requirement. Students taking this course will also be eligible to participate in FFA activities.

WILDLIFE and FISHERIES SCIENCE I (EJHS)

Grades 10 – 12

Periods per cycle: 6

PREREQUISITE: Agricultural Education I or Biology

This course is designed for students who plan on post-secondary education in wildlife and fisheries (or a related field) or who have a general interest in exploring an in-depth look at the management, identification, and ecology of wildlife and fish species. This course will fill a science requirement, and students will be involved in labs to identify various animals and evaluate habitat. Areas that will be covered are hoofed, gnawing, and predatory animals, predatory, game and water birds as well as fish, amphibian and reptiles. Preparing students for the Pennsylvania Envirothon will be the focus of this class - with that as the basic curriculum. Students will be required to identify tracks, pelts and calls of various species. Students taking this course will also be eligible to participate in FFA activities.

FORESTRY

Periods per cycle: 6

Grades 10-12

PREREQUISITE: Agricultural Education I or Biology

This is designed for students you have an interest in forestry or plan to attend a post-secondary field in forest management. Students will cover topics in forest management, dendrology, forestry tools and their uses, silviculture, forest insects and diseases and tree identification. Students will also examine geographical distribution, ecological requirements, and economic importance of forests in the United States. The course will also include information on the education and career opportunities for foresters. Students taking this course will also be eligible to participate in FFA activities.

AG MECHANICS I

Grades 10 – 12

PREREQUISITE: Ag. Education I

Periods per week: 6

This is a full year course with time divided into four different skill areas in the Ag Mechanics laboratory: advanced wood working, electrical wiring, introduction to welding (arc, MIG, and Oxy-Acetylene), and introduction to metal fabrication. Projects will be assigned that emphasize proficiency in these areas. Participation during class time to meet all required skills is mandatory for this class. Shop safety is always emphasized, and students are expected to act in a responsible manner at all times to prevent unnecessary injuries. Students taking this course will also be eligible to participate in FFA activities.

AG MECHANICS II

Grades 11-12

PREREQUISITE: Ag. Education I & Ag Mechanics I

Periods per cycle: 6

To enter this course, you would be required to have taken agricultural mechanics I or ONE year of agriculture mechanics. For Ag Mechanics II students, this is a full year course with time divided into five different skill areas in the Ag Mechanics laboratory: plumbing & watering systems, advanced welding (arc, MIG, and Oxy-Acetylene), sheet metal working, small gas engine repair, and truss/rafter design. Once students complete all of the skill areas, students may work on individual projects with instructor's permission. Shop safety is always emphasized, and students are expected to act in a responsible manner at all times to prevent unnecessary injuries. Students taking this course will also be eligible to participate in FFA activities.

AG MECHANICS III

Grade 12

PREREQUISITE: Ag. Education I & Ag Mechanics I, II

Periods per cycle: 6

To enter this course, you would be required to have taken agricultural mechanics I and II or TWO years of agriculture mechanics. In Ag Mechanics III/IV, students further explore selected skill areas in the Ag Mechanics laboratory. Once students show mastery in all areas of the previous agricultural mechanics courses in the areas of welding (arc, MIG, and Oxy-Acetylene), plumbing and watering systems, small gas engine repair, truss/rafter design, metal fabrication, and electrical systems students may work on individual projects with the instructor's permission. Participation in class time to meet all required skills is mandatory for this class. Shop safety is always emphasized, and students are expected to act in a responsible manner at all times to prevent unnecessary injuries. Students taking this course will also be eligible to participate in FFA activities.

FFA & Leadership

Grades 10 – 12

PREREQUISITE: Any previous agricultural class

Periods per cycle: 6

This course is designed for FFA members who want to further develop their leadership and employability skills. Students may explore the differences in personalities and leadership styles, the barriers of communication, characteristics present during effective interpersonal communication, factors that will affect the presentation of a speech, parliamentary procedure, goal setting, and career choice and preparation. Students may be involved in writing grants, scholarships, and awards through the National FFA Organization. However, public speaking is the main focus of this course as public speaking is the Leadership Development Curriculum of the FFA. Students will learn to effectively handle themselves and speak in public as well as many other activities. Students taking this course will also be eligible to participate in FFA activities.

AG SAE I, II, III, IV

Grade 9-12

Independent Study

COREQUISITE: MUST BE ENROLLED CONCURRENTLY IN AN AGRICULTURE CLASS AND AN FFA MEMBER. THIS COURSE IS ONLY FOR STUDENTS WHO ARE ENROLLED IN ANOTHER AGRICULTURE CLASS AND WHO ANTICIPATE ON CONTINUING IN FUTURE AGRICULTURAL CLASSES.

This course will focus on the process of recordkeeping through the students' Supervised Agricultural Experience project or SAE. Students will develop a plan of action with their parents and advisor for their SAE. An agreement will be signed and the student will begin the project(s). A quarterly evaluation will be given on record book progress. Visits will be made to the students' home to evaluate implementation of skills learned in the classroom regarding the chosen project area. As students progress into SAE III and IV, they will be encouraged to participate in local, regional and state SAE record book contests and award programs.

BUILDING/CONSTRUCTION TRADES

Grades 10-12

Periods per cycle: 18

The Juniata County School District Building Trades program teaches the fundamentals in carpentry, electric, masonry and plumbing. The first year teaches safety rules, proper use of hand tools and shop equipment. Techniques are taught to draw blueprints for floor plans. Residential floors, walls and roof framing is covered along with exterior coverings for them.

Second year students will expand on safety for using a few additional tools not covered in year one. This year students will also use blueprinting knowledge, adding electrical prints and cover residential wiring methods and codes used today. For masonry, students will be introduced to industry terms and methods plus students will get to lay various block projects. Another project students will experience is building layout with the use of leveling instruments.

In the third year students will take the CareerSafe 10 OSHA Construction Industry Training Certification course and expand hand and shop tool projects to more advanced projects. Carpentry experience will be added by making blueprints, estimating and finally building a storage shed plus layout rafters and stairway carriages. Advances in masonry and interior finishes are achieved by laying 12" block and brick by hanging and finishing dry wall. In this final year we also cover plumbing methods, codes and learn to solder.

OTHER VOCATIONAL PROGRAMS OFFERED AT THE MIFFLIN COUNTY ACADEMY OF SCIENCE AND TECHNOLOGY - "THE ACADEMY"

Grades 10-12

Periods per cycle: 18

The following courses are offered at The Academy in Lewistown:

Auto Mechanics	Collision Repair
Cosmetology	Culinary Arts
Early Childhood Education	Electrical Installation
Mechatronics	Precision Machining

Additional information is available at www.theacademy.net

GRADUATION REQUIREMENTS

Each student is required to complete a graduation project, which will be due for completion at the end of the third (3rd) marking period of the senior year.

<u>Subjects</u>	<u>Credits</u>
English	4.0
Social Studies*	4.0
Mathematics	3.0
Science	3.0
Physical Education	1.6
Technology*	1.0
Health	0.4
<u>Electives</u>	<u>6.0</u>
TOTAL	23

**If a student attends The Academy in 10th, 11th, and 12th grade credit totals may differ.*

RECOMMENDED COURSES OF STUDY

GENERAL STUDIES

Grade 9

English 9 or CP English 9
Civics
Algebra 1 Part 1
Physical Science
Professional Growth & Health
Technology Elective

Grade 11

English 11 or CP English 11
U.S. History
Algebra II, or Geometry
General Science
Technology Elective

Grade 10

English 10 or CP English 10
World History
Algebra 1 Part 2
Biology
Technology Elective

Grade 12

English 12 or CP English 12
Problems of Democracy
Business Math or Science
Technology Elective

COLLEGE PREPARATORY

Grade 9

CP English 9
Civics

Grade 10

CP English 10
World History

Algebra I or II
 Physical Science
 Spanish I or French I
 Professional Growth & Health
 Technology Elective

Grade 11

CP English 11, AP English 11
 U.S. History or AP U.S History
 Algebra, Geometry, or Trigonometry
 Chemistry

Algebra or Geometry
 Biology
 Spanish II or French II

Grade 12

CP English 12, AP English 12
 Problems of Democracy
 Trigonometry, AP Calculus or AP Stats
 Physics, Adv. Chem., or Adv. Biology

CONSTRUCTION TRADES

Grade 9

English 9
 Civics
 Algebra 1 Part 1
 Physical Science
 Professional Growth & Health
 Technology Elective

Grade 11

English 11 or CP English 11
 U.S. History
 Algebra II, or Geometry
 Biology
 Construction Trades

Grade 10

English 10 or CP English 10
 World History
 Algebra 1 Part 2
 Construction Trades

Grade 12

English 12 or CP English 12
 Problems of Democracy
 General Science or Agriculture Sciences
 Construction Trades

VOCATIONAL-TECHNICAL (The Academy)

Grade 9

English 9 or CP English 9
 Civics
 U.S. History or World History
 Algebra 1 Part 1
 Physical Science
 Biology or Agri. Science

Grade 11

English 11 or CP English 11
 Social Studies
 Algebra II, or Geometry
 MJCTC

Grade 10

English 10 or CP English 10
 Algebra Part 2
 General Science or Biology or Agri. Science
 MJCTC/The Academy

Grade 12

English 12 or CP English 12
 MJCTC/The Academy

VOCATIONAL AGRICULTURE

Course sequence suggestions available in the Guidance Office or with Agriculture teacher.

BASIC ESL EDUCATION

(J.H.S. Only)

Grade 9

ESL 120

ESL 121

OR:

ESL 122

Civics

Pre-Algebra or Algebra I

Physical Science

Professional Growth

Accelerated Reader

CHOICE (*1 or 2 may be selected*):

Physical Education/Study Hall

Foreign Language

Technology Elective

Grade 10

ESL 120

ESL 121

OR:

ESL 122

World History

Algebra or Geometry (*prereq: Algebra II*)

Biology

Physical Education

Accelerated Reader

CHOICE (*1 or 2 may be selected*):

Foreign Language

Technology Elective.

Elective

Grade 11

ESL 120 and

ESL 121

OR:

ESL 122

United States History

Algebra, or Geometry

General Science or Chemistry

Physical Education

Accelerated Reader

Choice of 1 or 2 Electives

Grade 12

ESL 120 and

ESL 121

OR:

ESL 122

Problems of Democracy/Economics

Algebra II, Geometry, or higher math

*(not required if student has 3 math credits)*Physics *(previous chemistry students only)**(not required if student has 2 sciences and 1 biology credit)*

Physical Education

Accelerated Reader

Choice of 2, 3, or 4 Electives

NCAA Eligibility

Any student-athlete who will potentially be participating in a Division I or Division II sport should visit the following NCAA Eligibility website to learn more about college athletic eligibility requirements and core high school courses that need to be taken to be eligible:

<https://web1.ncaa.org/eligibilitycenter/common/>

ADDITIONAL NOTES:

Additional AP courses may be available in an online setting if you meet certain prerequisite criteria. These courses are weighted 1.25 for GPA calculations. See your School Counselor for more information.

The Drop/Add period closes after the tenth day of the new school year.

Juniata County School District will not discriminate on the basis of race, color, national origin, sex, or handicap in its activities, programs, or employment practices as required by Title VI, Title IX, and Section 504. For information regarding civil rights or grievance procedures, contact the Juniata County School District office, 146 Weatherby Way, Mifflintown, PA 17059, or by

telephoning (717) 436-2111. For information regarding services, activities, and facilities that are accessible and usable by handicapped persons, contact the District Office.